



R60

PRAHA

NP-R60FYxx/xxx

***SERVICE* Manual**

SAMSUNG R60

FEATURES



1. Simple & Essential Note PC
 - Intel Core2 Duo/Celeron M Processor
 - AMD RS600ME + AMD SB600
2. High Performance & Security
 - 15.4" WXGA Super Bright Glare LCD/Non Glare LCD
 - AVS now, Bluetooth.

If there are the Contents not included in this book, please refer to K-zone Service Manual

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2. Introduction and Specification

1) Introduction

(1) High Performance Note PC

- Intel® Core™ 2 Duo Processor
- Intel® Core™ Duo Processor
- Intel® Pentium Dual Core™ Processor
- Intel® Celeron® M Processor
- Wireless LAN (Option), Bluetooth (Option).

(2) Convenient AV

- Touch Pad Under Plastic
- Wireless On/Off indicator & Button
- ASF Solution Ready

(3) Communications

- Wireless Solution (F. Option)
- AtherosAR2423 (802.11bg)
- Bluetooth V2.0
- MDC (F. Option) .
Delphi(D40)



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2. Introduction and Specification

2) Specification

Processor and Motherboard	Description
CPU	Intel® Core™ 2 Duo Processor Intel® Pentium Dual Core™ Processor+ AMD RS600ME + AMD SB600 Intel® Celeron® M Processor
Speed	R60 : Intel® Core™Duo Processor T2450 (2.0GHz) ~ Intel® Core™ 2 Duo Processor T5600 (1.83GHz) Intel® Pentium Dual Core Processor T2080 (1.73GHz) ~ T2130 (1.86GHz) Intel® Celeron M Processor 430 (1.73GHz) ~ 530 (1.73GHz)
	R60 Plus : Intel® Core™ 2 Duo Processor T5250 (1.5GHz) ~ T7700 (2.4GHz) Intel® Celeron Processor 530 (1.73GHz) ~ 550 (2.0GHz)
Cache	4MB (Intel® Core™ 2 Duo Processor T7700, T7500, T7300) 2MB (Intel® Core™ 2 Duo Processor) 1MB (Intel® Pentium Dual Core Processor, Intel® Celeron®M Processor)
Chipset	RS600ME + SB600
BIOS	8 Mbit, Flash upgradable, SPI ROM
Thermal Design Performance	MAX. 35W
Memory	
Memory / Max. Memory	1GB ~ MAX 4GB
Memory type	PC2-5300(667MHz) DDR2 SODIMM
Memory Modules	1GB, 2GB, 4GB SODIMM
Sockets	2-slot SODIMM's
Display and Graphics	
LCD	15.4" WXGA (Glare/NonGlare)
LCD Vendor	AMLCD/CPT
ATI Internal GFx	ATI Internal GFx
Video Memory	ATI Radeon Xpress 1250
ATI	32MB ~ Max. 256MB Shared Memory
Max.Resolution for LFP LVDS	1280 x 800 x 32Bits color (WXGA)
Max.Resolution for External Monitor	2048 x 1536 @ 32bps (CRT)

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Storage	
Hard Disk Drive	9.5mmH 2.5" HDD, Removable
Supports	SMART Ultra DMA 33/66/100, DMA Mode 2/4 ; SATA
Average Access Time	13m sec.
Speed	5400 / 7200 RPM , Hybrid HDD, TMR/PMR Type
Capacity	80GB / 100GB / 120GB / 160GB / 200GB : HGST, Hitachi, Samsung - 80 ~ 160GB SATA 5400rpm - 200GB SATA 4200rpm (June '07)
Optical Disk Drive	DVD/CD-ROM/Combo / Super Multi (12.7mm) ; Factory Option
Type	Fixed type (Factory Option)
S/W supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding
Optical Driver Modules	
Combo Drive 1	Factory Option
Module type	Fixed 12.7mm Slim
Speed	8x DVD-ROM, 24x RW, 24x CD-R : TSST, TS-L332A
Average Access Time	DVD 130ms Typ, CD 130ms Typ
Weight	176g or less
S/W Supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding
Combo Drive 2	Factory Option
Module type	Fixed 12.7mm Slim
Speed	8x DVD-ROM, 24x RW, 24x CD-R, 24x CD : TSST, TS-L462D
Average Access Time	DVD 130ms Typ, CD 130ms Typ,.
Weight	176g or less
S/W supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding
Super Multi Dual Layer 1	Factory Option
Module type	Fixed 12.7mm Slim
Speed	5x DVD-RAM, 8x DVD±R 2.4x DVD+R DL, 4x DVD±RW, 24x CD-R, 16x CD-RW, 8x DVD, 24x CD : Panasonic UJ-850
Average Access Time	DVD 130ms Typ., CD 130ms Typ.
Weight	190g or less
S/W supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding
Super Multi Dual Layer 2	Factory Option
Module type	Fixed 12.7mm Slim
Speed	5x DVD-RAM, 8x DVD±R, 6x DVD±R DL, 8x DVD+RW, 6x DVD-RW, 24x CD-R/RW, 8x DVD, 24x CD : TSSTTS-L632D

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Average Access Time	DVD 130ms Typ., CD 130ms Typ.
Weight	180g or less
S/W supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding
Super MultiDual Layer 3	Factory Option
Module type	Fixed 12.7mm Slim
Speed	5x DVD-RAM, 8x DVD±R, 6x DVD±R DL, 8x DVD+RW, 6x DVD-RW, 24x CD-R/RW, 8x DVD, 24x CD : <i>TeacDV-W28EC</i>
Average Access Time	DVD 130ms Typ., CD 130ms Typ.
Weight	180g or less
S/W supplied	Cyberlink DVD Solution
Security	RPC-II Regional Encoding
Network Tools	
Fax/Modem	56Kbps / V.92 Azalia Modem, DELPHI (D40) (Factory Opeion)
Chipset	CSP1040 AGR A3 & A3 5V1
Features	RJ11 Output
LAN	10/100 Ethernet UTP
Chipset	Marvell 88E8039
Features	Integrated PHY, MAC 10/100, RJ45 Output
802.11b/g Wireless LAN	AtherosAR2423: Factory option
Type	Mini card (Factory Option)
Chipset	AR2423
Bluetooth	BCM92045NMD : Factory Option
Type	USB daughter card with integrated PIFA antenna
Chipset	Broadcom BCM2045
Standard	version 2.0

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I/O Interface	
PC CardBus Slots	PCI Express Card Slot
I/O Ports	
USB Port	3 (USB2.0)
Video (CRT) Port	1
	1
Audio Jacks	HeadPhone-out
Modem / LAN	RJ11, RJ45
Power	1 DC-in (5pie)
Input Devices	
Key board	88KEY(KR/US) Travel length 2.6mm / Key Pitch 19.05mm
Touchpad	Synaptics Touchpad (Plat type with Scroll area)
Easy Button	-
Power and Power Management	
Battery (Standard)	AA-PB3NC6B (6cells, Smart Li-Ion Battery)
Dimension	204 x 48 x 20mm
Weight	350g (max)
Recharge Time	2 hours to 100% with Windows on & off
Battery Life	over 2.5hour (Battery mark 4.01)
Details of Cell	6cells (2Parallel 3Serial) - Standard only
Voltage	11.1Vdc
Battery Capacity	2000mAh/cell
Battery Rating	11.1V / 4000mAh (44.4Wh)
Battery (LongLife)	AA-PL2NC9B (9cells, Smart Li-Ion Battery)
Recharge Time	4 hours to 100% with Windows on & off
Battery Life	over 5hour (Battery mark 4.01)
Details of Cell	9cells (3Parallel 3Serial)
Voltage	11.1Vdc
Battery Capacity	2600mAh/cell
Battery Rating	11.1V / 7800mAh (86.58Wh)

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2. Introduction and Specification

AC Adapter	AD-9019S(2.0GHz↑)
Output Power	90Watts
Dimension	126 X 51 X 30 mm
Weight (AC Adapter)	270g (typ)
Worldwide Compatibility	Auto-sensing 100 - 240VAC
Line Frequency	50 / 60Hz
Adapter Rating - Input	100V - 240V, 1.5A(Min)
Adapter Rating - Output	19.0VDC , 4.74A
Power Management Features	ACPI 3.0 support, Standby(S3), Hibernate(S4)
AC Adapter	AD-6019S(2.0GHz↓)
Output Power	60 Watts
Dimension	108 x 46.5 x 28mm
Weight (AC Adapter)	320g (max)
Worldwide Compatibility	Auto-sensing 100 - 240VAC
Line Frequency	50 / 60Hz
Adapter Rating - Input	100V - 240V, 1.4A
Adapter Rating - Output	19.0VDC / 3.16A
Power Management Features	ACPI 1.0b support, Standby(S3), Hibernate(S4)
System Dimensions	
Dimensions (W X D X H)	335.9mm x 240.4mm x 28.2~38.8mm
Weight (Full system w/4cell Battery)	2.19Kg
	Status : Combo , 4cell battery, 2.5" 80GB HDD
Materials	LCD Front: PC, Back: PC/ABS
	Top: PC/ABS, Bottom: Mg

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2. Introduction and Specification

3) Specification comparison

모델명			
		R40 plus	R60 plus
Platform		Intel Yonah (FSB667, 2MB L2)	Intel Merom (FSB667,800 2MB,4MB L2)
LCD		15.4" WXGA	15.4" WXGA
CHIP SET		RS600ME + SB600	RS600ME + SB600
CPU		T5600	T7700
Graphic s	Internal	RadeonXPress1250M	RadeonXPress1250M
Network	Modem	56Kbps F.Option	56Kbps F.Option
	Ethernet	10/100	10/100
	Wireless	bg	bg
Port		PCMCIA, 4USB, TV-out, VGA, Audio	PCI Express Card, 3USB, VGA, Audio
BATTERY		6CELL	6CELL
ODD		Super-Multi	Super-Multi
Size (cm)		340.4 x 259.6 31.1~38.7	335.9 x 240.4 28.2~38.8
Weight (kg)		2.46	2.46

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3) Specification comparison

모델명				
	LG(T1-	Sony (VGN-	HP(V3037TU)	Samsung(X22)
CPU	T2400	M760	T2300E	T7100
LCD	14.0"WXGA	14.1"WXGA	14.1"WXGA	14.1"WXGA/WXGA+
Graphics	Intel GMA950	Intel GMA950	Intel GMA950	ATI X2400
Memory	DDR2 1024MB	DDR2 512MB	DDR2 512MB	DDR2 1024MB
HDD	60GB	80GB	80GB	80GB
ODD	COMBO	DVD±RW	COMBO	Super-Multi
Network	Modem Gigabit, abg	Modem 10/100, bg	Modem 10/100, abg	Modem(56Kbps) Gigabit abg/n or abg
Battery	6 Cell	6 Cell	6 Cell	4 Cell/ 8 Cell
PC Card Slot	4-in-1	MS, MS pro	5-in-1	6-in-1
Port	3xUSB, 1394 VGA, S-Video	3xUSB, 1394 VGA, S-Video	3xUSB, 1394 VGA, S-Video	3xUSB, no 1394 VGA,
Dock	-	Replicator	-	X-Dock
Size (cm)	334x240 21.5~31.5	340x253.5 21~33	334x237 26~39	335.9 x 240.4 28.2~38.8
Weight (kg)	1.93	2.4	2.4	2.19

2. Introduction and Specification

4) Wireless LAN Specification

(1) Wireless LAN Standard (802.11BG card)

Atheros Wireless Network Adapter

Item		Detailed Specifications
Physical Specifications	Dimensions	(Width X Height) 59.75 X 44.70 mm
	operation temperature and humidity	Same as system operation
		Temperature: 0°C ~ 70°C Humidity: less than 85%
Power Specification	Power Saving Mode	70 mW
	Receiving Mode	0.825W
	Transmission Mode	1.25W
	Power	3.3V
Network Specifications	Compatibility	IEEE802.11b, IEEE802.11g
	Operating System	Microsoft Windows XP - NDIS5 Miniport Driver
	Media Access Protocol	CSMA/CA (Collision Avoidance) with Acknowledgement(ACK)
	Security	Wired Equivalent Privacy support (WEP) 64bit / 128bit WPA*, CCX*

* This piece of equipment supports the Wi-Fi wireless LAN security standard, WPA (Wi-Fi Protected Access) and CCX (Cisco Compatible eXtensions). To connect to a wireless network consisting of the WPA and CCX, certificates or PROSet may be required depending on the network settings. For driver update, visit www.samsung.com and for information on the PROSet installation, refer to "Wireless Network Setup Using the Wireless LAN Setup Program" (p67). For more information, ask your network administrator.

2. Introduction and Specification

Radio Specifications

RF Band	2.4GHz
Support Channels	Channels allowed per country.
Device	Transceiver
Standard Output Power	MAX 10mW
Transmission Method	11b mode: DSSS 11g mode: OFDM
Transmission Rate (Mbps) *	11b mode: 11, 5.5, 2, and 1 11g mode** : 54, 48, 36, 24, 18, 12, 9, and 6
Antenna Type	Internal Antenna 2 EA (Main/Aux)

* The transmission rate may differ from the actual transmission rate.

**11g mode is supported only when you are connected to an IEEE 802.11g device (e.g. An Access Point supporting IEEE 802.11g).

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2. Introduction and Specification

5) Option list

HDD		
		
BA59-01999A	HTS541660J9SA00	5400rpm, , 60G, SATA, 8M
BA59-01946A	MHV2060BH-PL	5400rpm, , 60G, SATA, 8M
BA59-02084A	MHW2060BH	5400rpm, , 60G, SATA, 8M
BA59-02038A	HM060HI	5400rpm, , 60G, SATA, 8M
BA59-02001A	HTS541680J9SA00	5400rpm, , 80G, SATA, 8M
BA59-01947A	MHV2080BH-PL	5400rpm, , 80G, SATA, 8M
BA59-02085A	MHW2080BH	5400rpm, , 80G, SATA, 8M
BA59-02009A	ST980815AS	5400rpm, , 80G, SATA, 8M
BA59-01742A	HTS541010G9SA00	5400rpm, , 100G,SATA , 8M
BA59-01948A	MHV2100BH-PL	5400rpm, , 100G, SATA, 8M
BA59-02086A	MHW2100BH	5400rpm, , 100G, SATA, 8M
BA59-02014A	HM101JI	5400rpm, , 100G, SATA, FFS
BA59-02010A	ST9100828AS	5400rpm, , 100G, SATA, 8M
BA59-02002A	HTS541612J9SA00	5400rpm, , 120G, SATA, 8M
BA59-01957A	MHV2120BH-PL	5400rpm, , 120G, SATA, 8M
BA59-02087A	MHW2120BH	5400rpm, , 120G, SATA, 8M
BA59-02013A	hm121JI	5400rpm, , 120G, SATA, FFS
BA59-02039A	HM120JI	5400rpm, , 120G, SATA, 8M
BA59-02011A	ST9120822AS	5400rpm, , 120G, SATA, 8M
BA59-02003A	HTS541616J9SA00	5400rpm, , 160G, SATA, 8M
BA59-02012A	ST9160821AS	5400rpm, , 160G, SATA, 8M
BA59-02110A	MHW2160BH-PL	5400rpm, , 160G, SATA, 8M
LCD		
		
BA59-01814A	15.4WXGA	
BA59-02147A	15.4WXGA	

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2. Introduction and Specification

MEMORY



1105-001683	DDR2 667Mhz 512MB	M470T6554CZ3-CE6
1105-001684	DDR2 667Mhz 1GB	M470T2953CZ3-CE6
1105-001783	DDR2 667MHz 512MB	NT512T64UH8B0FN-3C
1105-001790	DDR2 667MHz 1GB	NT1GT64U8HB0BN-3C
1105-001825	DDR2 667MHz 2GB	M470T5663CZ3

CPU



0902-002196	T_T7100(Merom Dual Core)	1.8Ghz(FSB800) 2MB
0902-002197	T_T7300(Merom Dual Core)	2.0Ghz(FSB800) 4MB
0902-002198	T_T7500(Merom Dual Core)	2.2Ghz(FSB800) 4MB
0902-002199	T_T7700(Merom Dual Core)	2.4Ghz(FSB800) 4MB

BATTERY



BA43-00169A	BATTERY	4 Cell
BA43-00170A	BATTERY	8 Cell

BLUETOOTH



BA59-01691A	MODULE-BLUETOOTH	Bluetooth V2.0,T60H928.01,Bluetooth Module,USB I/F,V2.0,C
BA59-01916A	MODULE-BLUETOOTH	Bluetooth Version 2.0,BTO2P0B2SA,Bluetooth Module,

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2. Introduction and Specification

ODD



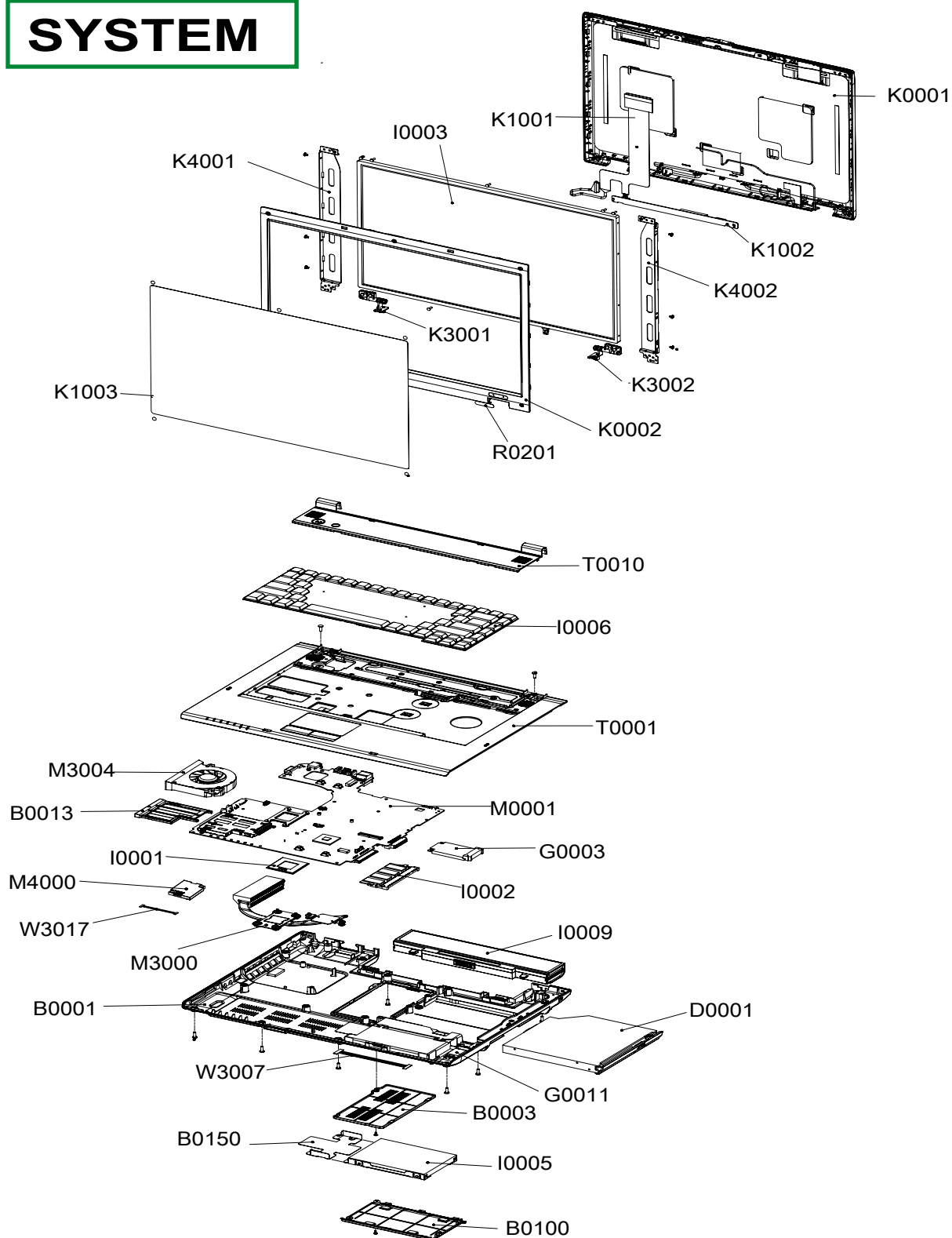
BA96-03223A	S_MULTI(DV228EC)	TEAC
BA96-03241A	S_MULTI(UJ-850)	MATSUHITA
BA96-03242A	S_MULTI(TS-L632D)	TSST
BA96-03222A	ROM(DW-224E-R)	TEAC
BA96-03239A	COMBO(TS-L462D)	TSST

WLAN

BA59-02154A	802.11 b/g	WLL3141
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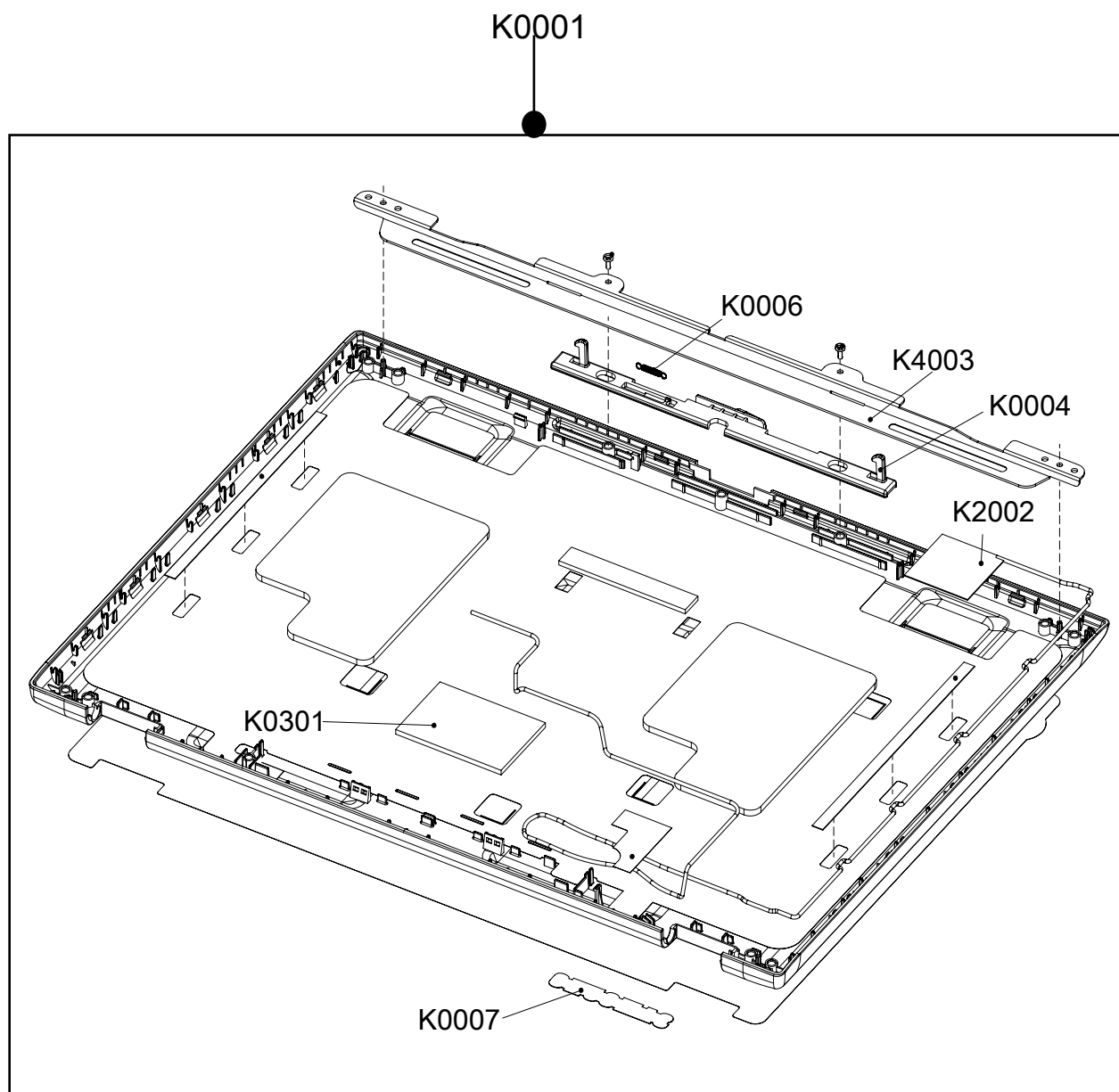
5. Exploded View and Part List

SYSTEM



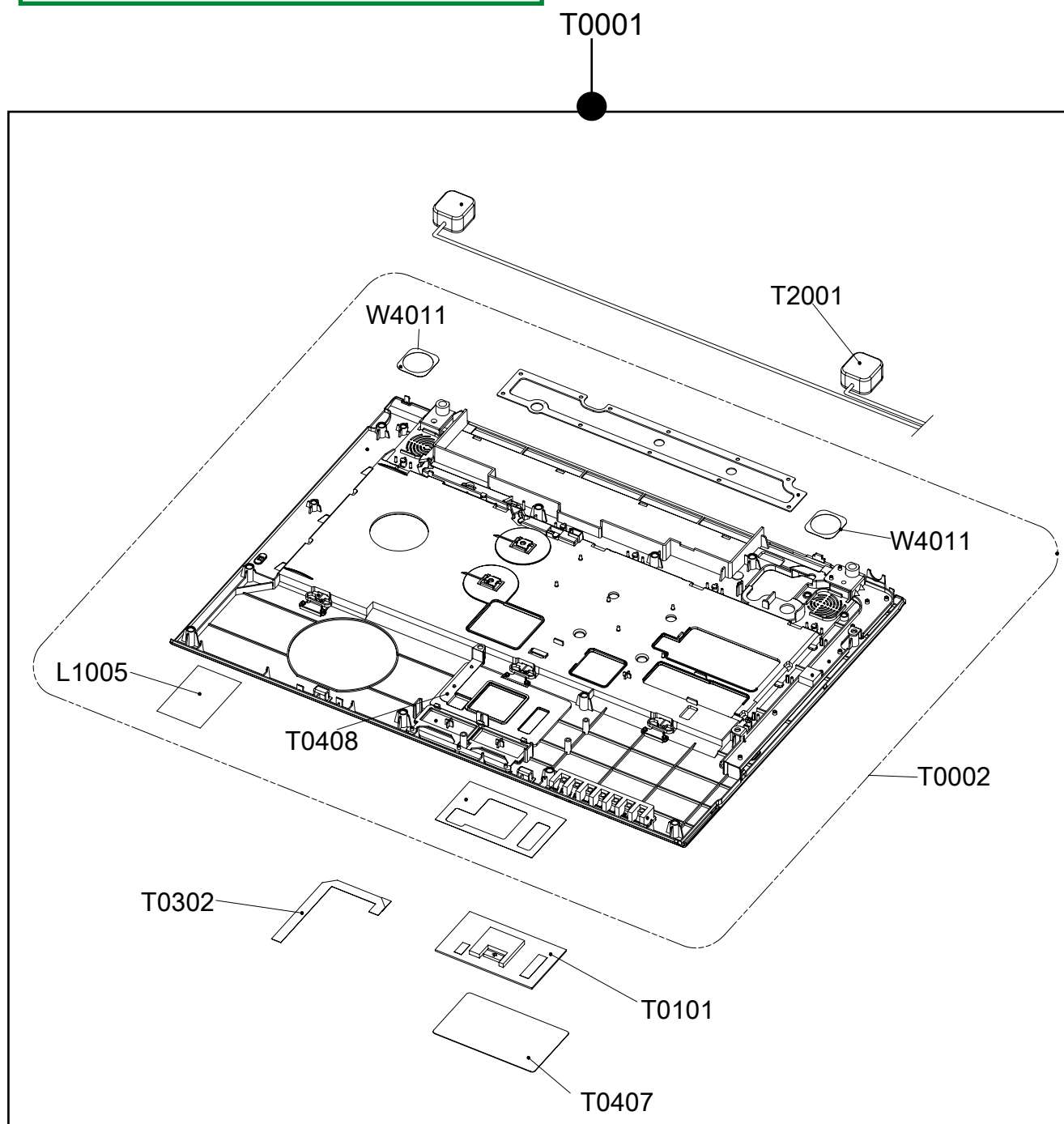
5. Exploded View and Part List

Unit-Housing-Back



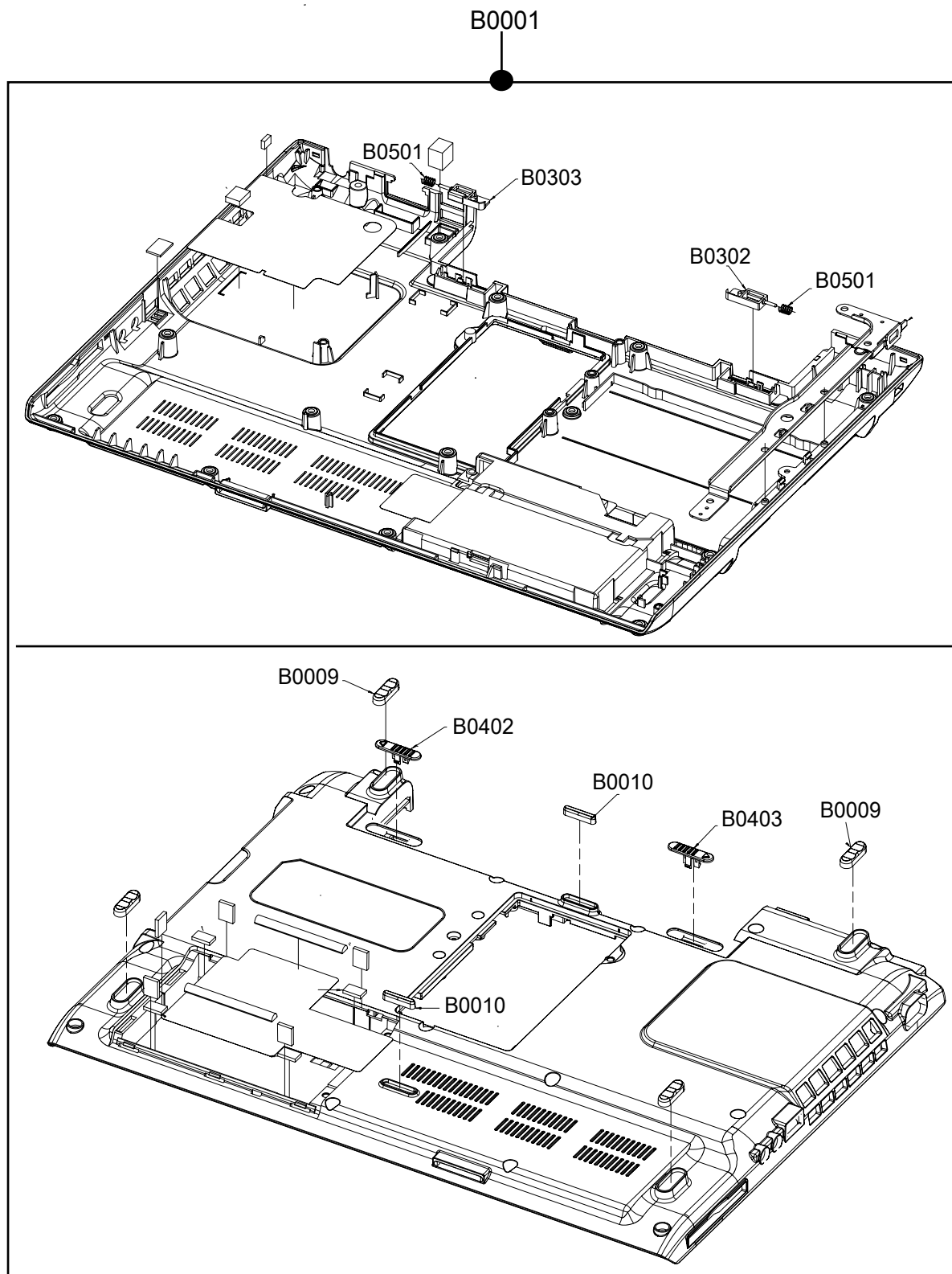
5. Exploded View and Part List

Unit-Housing-Top



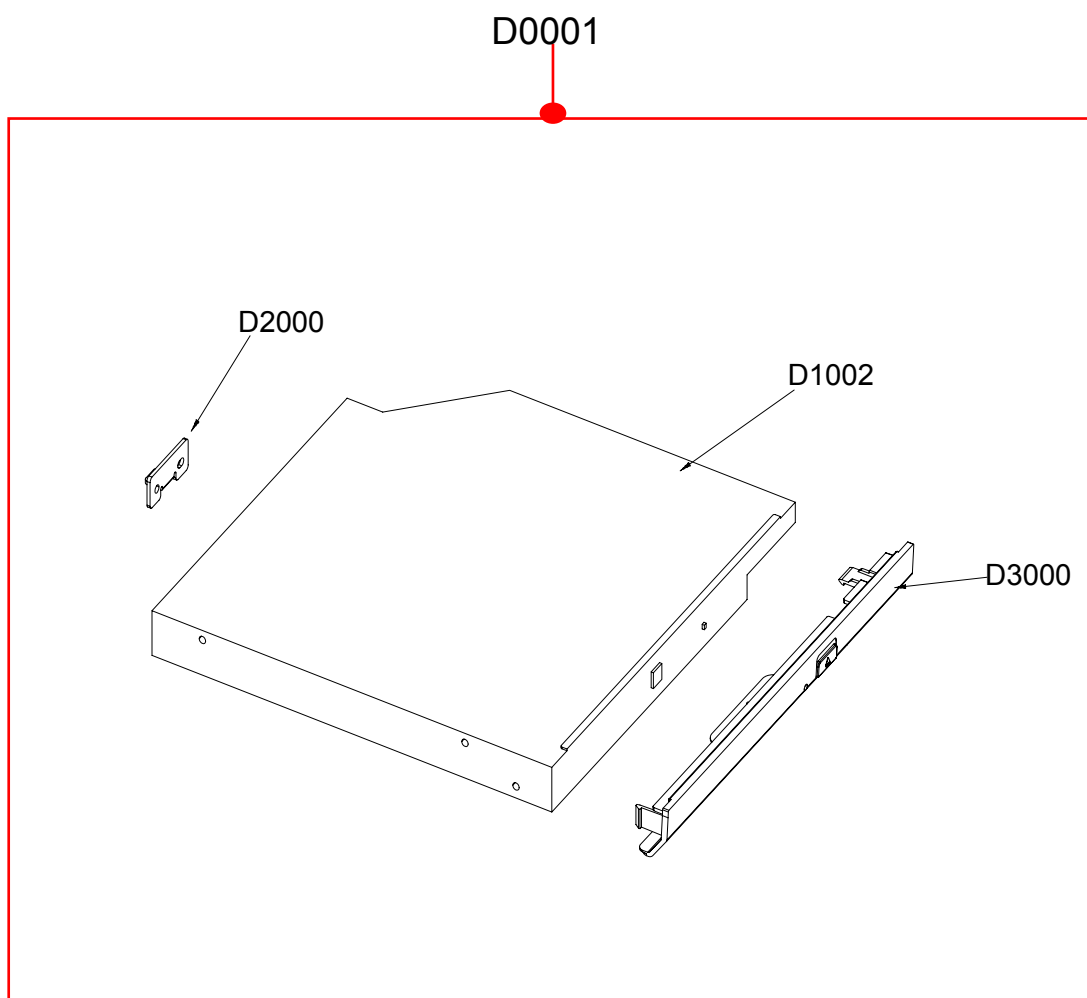
5. Exploded View and Part List

Unit-Housing-Bottom



5. Exploded View and Part List

Unit-ODD



5. Exploded View and Part List

NP-R60X0B1/SEK

Location	Part Number	Parts Name & Specification	Q'ty	SA/SNA
A0010	3903-000055	CBF-POWER CORD;DT,EU,CP2/NO,E(IEC320 C7)	1	SA
A1001	BA46-05711A	S/W CD;RCD,NP/DT,VISTAHB,1.0,ENG,DVD,1/1	1	SA
A1001	BA46-07026A	S/W CD;UTILITY,PRAHA,WINVISTA,0.0,EXP,DV	1	SA
B0001	BA75-01983A	UNIT-HOUSING_BOTTOM;PRAHA,SEC,PC+ABS,W35	1	SA
B0003	BA81-03831A	DOOR-MEMORY;PRAHA,PC+ABS,W117.2*L66.0*H2	1	SA
B0009	BA81-03443A	RUBBER-FOOT;HAINAN2,DOMESTIC,SR,L19*W6.5	4	SA
B0010	BA81-03458A	RUBBER-FOOT_CENTER;OSLO,SILICON,HS70,W3.	2	SA
B0013	BA81-03955A	CARD-DUMMY_EXPRESS;PRAHA,PC/ABS,L70.4*W5	1	SA
B0100	BA75-01982A	UNIT-DOOR_HDD;PRAHA,SEC,PC+ABS,W80.2*L11	1	SA
B0150	BA75-01944A	UNIT-BRACKET_HDD;PRAHA,SEC,SECC,W71.0*L3	1	SA
B0302	BA81-02795A	LINK-BATTERY_L;FIRENZE2,POM,L26.4*W10.8*	1	SA
B0303	BA81-03823A	LINK-BATTERY_R;PRAHA,POM,L26.4*W10.8*H5.	1	SA
B0402	BA81-03382A	KNOB-BATTERY_R;OSLO,PC+ABS,W25*L6.5*H7.8	1	SA
B0403	BA81-03383A	KNOB-BATTERY_L;OSLO,PC+ABS,W25*L6.5*H7.8	1	SA
B0501	BA61-00780A	SPRING_ETC-BATT;AQUILA-P,STS304,CD0.3,ID	2	SA
D0001	BA96-03223A	ASSY DVD-SUPERMULTI;OSLO,SUPERMULTI,TEAC	1	SA
D0001	BA96-03241A	ASSY DVD-SUPERMULTI;OSLO,Matsushita, UJ-	1	SA
D0001	BA96-03323A	ASSY DVD-SUPERMULTI;OSLO,Slim Super Mult	1	SA
D1002	BA59-01970A	DVD-SUPERMULTI;UJ-850,8X,180ms,E-IDE,2M,	1	SA
D1002	BA59-02020A	DVD-SUPERMULTI;DV-W28E-C,8X,110ms,E-IDE,	1	SA
D1002	BA59-02192A	DVD-SUPERMULTI;TS-L632H,18x,130ms,Pata,2	1	SA
D2000	BA81-03428A	BRACKET-ODD;OSLO,SUS304,W27*L10*T1.0mm,N	1	SA
D3000	BA75-01863B	UNIT-BEZEL_ODD-MULTI_DL;HAINAN2,DOMESTIC	1	SA
G0003	BA59-02154A	MODULE-WLAN;DT/NP,WLL3141,-,802.11BG,min	1	SA
I0001	0902-002163	IC-MICROPROCESSOR;LF80537NE0251M,1.6GHz,	1	SA
I0002	1105-001683	IC-DRAM MODULE;M470T6554,DDR2,512MByte,6	2	SA
I0002	1105-001783	IC-DRAM MODULE;NT512T64UH8B0FN-3C,DDR2,5	2	SA
I0003	BA59-01814A	LCD PANEL-154WXGA;LTN154X3-L03-C/N,15.4W	1	SA
I0003	BA59-02147A	LCD PANEL-154WXGA;LTN154X3-L03-A,15.4WXG	1	SA
I0005	BA59-01957A	HDD;120G,MHV2120BH-PL,S63,H16,D16385,H9.	1	SA
I0005	BA59-02002A	HDD;120G,HTS541612J9SA00,S63,H16,D16385,	1	SA
I0005	BA59-02039A	HDD;120G,HM120JI,S63,H16,D16385,H9.5mm,2	1	SA
I0005	BA59-02087A	HDD;120G,MHW2120BH,S63,H16,D16385,H9.5mm	1	SA
I0005	BA59-02189A	HDD;120G,HM121HI,S63,H16,D16385,H9.5mm,2	1	SA
I0005	BA59-02202A	HDD;120G,HTS542512K9A300,S63,H16,D16385,	1	SA
I0005	BA59-02208A	HDD;120G,MHY2120BH,S63,H16,D16385,9.5mm,	1	SA

5. Exploded View and Part List

NP-R60X0B1/SEK

Location	Part Number	Parts Name & Specification	Q'ty	SA/SNA
I0005	BA59-02226A	HDD;120G,WD1200BEVS-22UST0,S63,H16,D1638	1	SA
I0006	BA59-02044A	KEYBOARD;OSLO,88,M/B,-,US,-,BLACK,-	1	SA
I0006	BA59-02044F	KEYBOARD;OSLO,88 KEYS,-,-,US,-,BLK,-	1	SA
I0007	BA44-00238A	ADAPTOR;0335C1960,AD-6019,AC/DC,90to264V	1	SA
I0007	BA44-00243A	ADAPTOR;ADP-60ZH A,AD-6019,AC/DC,90to264	1	SA
I0009	BA43-00155A	BATTERY;3UR18650Y-2-SDN-14,HABANA-C,Li-i	1	SA
I0009	BA43-00162A	BATTERY-PACK;P32R04-06-H01,Firenze2,Li-i	1	SA
K0001	BA75-01945A	UNIT-HOUSING_LCD-BACK;PRAHA,SEC,PC+ABS,W	1	SA
K0002	BA75-01941A	UNIT-HOUSING_LCD-FRONT;PRAHA,SEC,PC+ABS,	1	SA
K0004	BA81-03824A	KNOB-LATCH_LCD;PRAHA,PC+ABS,W159.0*L9.0	1	SA
K0006	BA61-00631A	SPRING ETC-KNOB_LCD;AQUILLA,STS304,T0.25	1	SA
K0007	BA64-00716A	LOGO-SAMSUNG;HAINAN2,DOMESTIC,T0.75,8.25	1	SA
K0100	BA81-04180A	RUBBER-FRONT;PRAHA,SILICON RUBBER,HS85,D	5	SA
K0301	BA81-01824A	SPONGE-BACK_CENTER;FIRENZE,CR SPONGE,W50	1	SA
K1001	BA39-00658A	CBF HARNESS-LCD;PRAHA,AL,UL10005,30/8/30	1	SA
K1001	BA39-00661A	CBF HARNESS-LCD;PRAHA,AL,UL10005,30/8/30	1	SA
K1002	BA44-00248A	INVERTER;OSLO,541180560003,DC,8.5to20V,1	1	SA
K1002	BA44-00249A	INVERTER;OSLO,DAC-09N019 AF,DC,8.5Vto20V	1	SA
K1002	BA44-00250A	INVERTER;OSLO,VK.21209.202,DC,8.5to20V,1	1	SA
K1003	BA63-00543A	PROTECTOR-LCD_FRONT;FIRENZE2,PET,T0.1mm,	1	SA
K2002	BA42-00183A	ANTENNA-AUX;SS-03-03-100,Oslo,2.3to6GHz,	1	SA
K3001	BA61-00998A	HINGE-L;FIRENZE,ZAMAK2,T3.0mm,-,-,NTR,-	1	SA
K3001	BA61-01119A	HINGE-L;FIRENZE2,Mg,T3.0,W5.6,L21.9mm,NT	1	SA
K3001	BA61-01130A	HINGE-L;PRAHA,Mg,T1.5,W5.6,L21.9mm,NTR,-	1	SA
K3002	BA61-00999A	HINGE-R;FIRENZE,ZAMAK2,T3.0mm,-,-,NTR,-	1	SA
K3002	BA61-01120A	HINGE-R;FIRENZE2,Mg,T3.0,W5.6,L21.9mm,NT	1	SA
K3002	BA61-01131A	HINGE-R;PRAHA,Mg,T1.5,W5.6,L21.9mm,NTR,-	1	SA
K4001	BA81-03839A	BRACKET-LCD_L;PRAHA,SECC T0.8,W252.6*L30	1	SA
K4002	BA81-03840A	BRACKET-LCD_R;PRAHA,SECC T0.8,W252.6*L28	1	SA
K4003	BA81-03833A	BRACKET-LCD_UPPER;PRAHA,SECC T0.8,W344.0	1	SA
L1004	BA68-20039A	LABEL-PPID_E;BLADE,-,PET,-,W50.8,L12.7mm	1	SA
L1005	BA68-20323A	LABEL CAUTION;NOTE PC,-,PET,T0.06,W30.0,	1	SA
M0001	BA92-04669A	ASSY MOTHER BD-TOP;PRAHA,NAPA,RS600ME/SB	1	SA
M1002	3301-001594	BEAD-SMD;90ohm,2.0*1.2*1.3mm,-,TP,-,-,-	1	SA
M1004	2203-005052	C-CER,CHIP;0.0033nF,0.25pF,50V,NP0,1005	1	SA
M1004	2203-005918	C-CER,CHIP;1000nF,10%,6.3V,X7R,1608	1	SA

5. Exploded View and Part List

NP-R60X0B1/SEK

Location	Part Number	Parts Name & Specification	Q'ty	SA/SNA
M1004	2203-006000	C-CER,CHIP;1NF,10%,3KV,X7R,TP,4520	1	SA
M1009	3711-002127	HEADER-BOARD TO CABLE;BOX,8P,1R,1.25mm,S	1	SA
M1009	3711-005753	HEADER-BOARD TO BOARD;BOX,10P,1R,1mm,SMD	1	SA
M1021	1201-001991	IC-AUDIO AMP;TPA6017A2PWPR,TSSOP,20P,6.5	1	SA
M1024	0801-002195	IC-CMOS LOGIC;7S08,AND GATE,SOT-25,5P,63	1	SA
M1025	1203-003344	IC-POSI.FIXED REG.;MIC5252,SOT-23,5P,2.9	1	SA
M1028	3722-001692	JACK-MODULAR;12P/10C,STANDARD,N,SMD-OFFS	1	SA
M1028	3722-002601	JACK-USB;4P/2C,AUF,BLK,ANGLE-OFFSET,A TY	1	SA
M1029	2007-000048	R-CHIP;6.19Kohm,1%,1/10W,TP,1608	1	SA
M1029	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
M1029	2007-008299	R-CHIP;61.9ohm,1%,1/16W,TP,1005	1	SA
M1032	BA61-00784A	SUPPORT-VIDEO_BD;ARGO,CU ALLOY,T3.5,W3.5	1	SA
M1033	4301-000108	BATTERY-LI;3V,220mAh,BUTTON,20x3.2mm,NO	1	SA
M1036	0504-001157	TR-DIGITAL;DTA114YUA,PNP,200mW,10K/47K,U	1	SA
M3000	BA62-00445A	HEAT SINK-CPU;PRAHA,Aluminum,T17,W128,L1	1	SA
M3000	BA62-00445B	HEAT SINK-CPU;PRAHA,Aluminum,T17,W128,L1	1	SA
M3004	BA31-00051A	FAN-CPU;MCF-915BM05,PRAHA,Plastic,-,-	1	SA
M3004	BA31-00051B	FAN-CPU;BDB05405HB-7D92,PRAHA,Plastic,-,-	1	SA
M4000	BA59-02036A	MODEM;1456VQL-T3(INT-RoHS),56Kbps,Agere	1	SA
M4000	BA59-02037A	MODEM;T60M951.07 LF,56Kbps,Agere 2 Chip,	1	SA
M9999	0403-001047	DIODE-ZENER;BZX84C12L,5%,225mW,SOT-23,TP	1	SA
M9999	0501-000465	TR-SMALL SIGNAL;MMBT3904,NPN,350mW,SOT-2	1	SA
M9999	0601-001402	LED;SMD,RED/Y-GRN,1.2X1.5MM,660/570NM,1.	1	SA
M9999	0601-002037	LED;SMD,BLUE,1.6x0.8x0.4mm,465/470nm,1.6	1	SA
M9999	0903-001439	IC-MICROCOMPUTER;H8S/2110B,16Bit,TQFP,10	1	SA
M9999	0904-002207	IC-MEMORY CONT.;216MEP6CLA14FG,FCBGA,120	1	SA
M9999	0904-002225	IC-BUS CONTROLLER;AU6371,LQFP,48P,7x7mm,	1	SA
M9999	0904-002230	IC-I/O CONTROLLER;SB600,FcBGA,549P,23x23	1	SA
M9999	1103-001333	IC-EEPROM;24C08A,1Kx8Bit,SOP,8P,5x4mm,-,	1	SA
M9999	1107-001646	IC-FLASH MEMORY;MX25L8005,8Mbit,8Mx1,SOP	1	SA
M9999	1203-002546	IC-POSI.FIXED REG.;MIC5258,SOT-23-5,5P,6	1	SA
M9999	1203-003765	IC-PWM CONTROLLER;SC486IMLTRT,MLP,24P,4x	1	SA
M9999	1203-004685	IC-PWM CONTROLLER;SC415,MLPQ,24P,4x4mm,P	1	SA
M9999	1203-004687	IC-PWM CONTROLLER;TPS51120,QFN,32P,5x5mm	1	SA
M9999	1205-002807	IC-SWITCH;R5538D001-TR-F,QFN,20P,4x4mm,P	1	SA
M9999	1205-002853	IC-CODEC;ALC262-GR,LQFP,48P,7x7mm,PLASTI	1	SA

5. Exploded View and Part List

NP-R60X0B1/SEK

Location	Part Number	Parts Name & Specification	Q'ty	SA/SNA
M9999	1205-003090	IC-ETHERNET CONTROLLER;88E8039,QFN,64P,9	1	SA
M9999	1205-003157	IC-CLOCK GENERATOR;ICS951461,TSSOP,64P,1	1	SA
M9999	1209-001718	IC-SENSOR;EMC2102,QFN,28P,5x5mm,PLASTIC,	1	SA
M9999	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
M9999	2007-000972	R-CHIP;5.1ohm,5%,1/4W,TP,3216	1	SA
M9999	2007-007382	R-CHIP;20Mohm,5%,1/10W,TP,1608	1	SA
M9999	2007-007441	R-CHIP;562ohm,1%,1/10W,TP,1608	1	SA
M9999	2007-008789	R-CHIP;0.001ohm,1%,1W,TP,6432	1	SA
M9999	2203-002487	C-CER,CHIP;4.7nF,10%,25V,X7R,1005	1	SA
M9999	2203-006048	C-CER,CHIP;100nF,10%,10V,X7R,1005	1	SA
M9999	2203-006090	C-CER,CHIP;10000nF,10%,6.3V,X5R,2012	1	SA
M9999	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,2012	1	SA
M9999	2402-001120	C-POLYMER AL CHIP;330uF,0.2,6.3V,-,TP,7.	1	SA
M9999	3301-001772	BEAD-SMD;27ohm,1608,-,TP,30ohm/120MHz,48	1	SA
M9999	3404-001311	SWITCH-TACT;12VDC,50mA,100gf,6.0x6.0x5.0	1	SA
M9999	3701-001403	CONNECTOR-DSUB;15P,2R,FEMALE,ANGLE,NI	1	SA
M9999	3708-002166	CONNECTOR-FPC/FFC/PIC;25P,0.5mm,SMD-A,AU	1	SA
M9999	3708-002402	CONNECTOR-FPC/FFC/PIC;6P,1.0mm,SMD-A,SnB	1	SA
M9999	3709-001375	CONNECTOR-CARD EDGE;200P,0.6mm,SMD,AUF,S	1	SA
M9999	3709-001398	CONNECTOR-CARD EDGE;52P,0.8mm,SMD-A,AU,M	1	SA
M9999	3709-001459	CONNECTOR-CARD EDGE;200P,0.6mm,SMD-A,Au,	1	SA
M9999	3709-001489	CONNECTOR-CARD EDGE;200P,0.6mm,SMD-A,Au,	1	SA
M9999	3709-001491	CONNECTOR-CARD SLOT;26P,1.0mm,ANGLE,AU,E	1	SA
M9999	3709-001492	CONNECTOR-CARD SLOT;9P,2.5mm,SMD-A,Au,2	1	SA
M9999	3710-002133	SOCKET-BOARD TO BOARD;12P,2R,0.8mm,SMD-A	1	SA
M9999	3710-002468	CONNECTOR-HEADER;- ,7+15P,1R,1.27mm,ANGLE	1	SA
M9999	3710-002498	SOCKET-BOARD TO CABLE;30P,2R,10mm,SMD-A,	1	SA
M9999	3711-000386	HEADER-BOARD TO CABLE;BOX,10P,1R,1.25MM,	1	SA
M9999	3711-000541	HEADER-BOARD TO CABLE;BOX,2P,1R,1.25mm,S	1	SA
M9999	3711-006059	HEADER-BATTERY;NOWALL,7P,1R,2.5,BATTERY,	1	SA
M9999	3711-006496	CONNECTOR-HEADER;NO WALL,26P,1R,1mm,SMD-	1	SA
M9999	3722-002132	JACK-DC POWER;3P,5.5mm,SN-P,BLK	1	SA
M9999	3722-002365	JACK-PHONE;6P,AUF,PINK	1	SA
M9999	3722-002382	JACK-USB;4P/2C,AUF,BLK,ANGLE-OFFSET,A TY	1	SA
M9999	3722-002416	JACK-PHONE;6P,AUF,LIME,ANGLE	1	SA
M9999	3722-002610	JACK-USB;4P,AU,BLK,DIP,A-TYPE	1	SA

5. Exploded View and Part List

NP-R60X0B1/SEK

Location	Part Number	Parts Name & Specification	Q'ty	SA/SNA
M9999	4309-001020	BATTERY-HOLDER;COIN CELL,SPRING,25.4mm,2	1	SA
M9999	BA61-01060B	BRACKET-SUPPORT_CPU;OSLO,AL,T1.5,W24,L43	1	SA
M9999	BA62-00389A	INSULATION-MEMORY;SEDONA,PC,T0.2,W64,L30	1	SA
M9999	BA75-01937A	UNIT-BRACKET_CPU;PALAU,SEC,SPCC,W50*L40*	1	SA
R0201	BA68-03931B	LABEL-FRONT_R60;PRAHA,SEC,PC,0.3T,W24.8,	1	SA
T0001	BA75-01981A	UNIT-HOUSING_TOP;PRAHA,SEC,PC+ABS,W354.8	1	SA
T0002	BA81-04203A	UNIT-HOUSING_TOP-SVC;PRAHA,PC/ABS,W354.8	1	SA
T0005	BA68-02502A	LABEL-INTEL_CELERON-M;CETUS,ALL,-,-,W19.	1	SA
T0005	BA68-03685A	LABEL-LOGO_VISTA-BASIC;N/P ALL,VISTA BAS	1	SA
T0005	BA68-03914A	LABEL-ATI;PALAU,ATI,POLY C/B,T0.1,W16.1,	1	SA
T0005	BA68-04034A	LABEL-ZAIGEN;PRAHA,ENG,PET,-,W100,L60mm,	1	SA
T0010	BA75-01946A	UNIT-CAP_TOP;PRAHA,SEC,PC+ABS,W300.3*L61	1	SA
T0101	BA59-02145A	BOARD-TOUCHPAD;ACCORDION,TM-01020-003,BO	1	SA
T0302	BA41-00802A	FFC-TOUCHPAD;PRAHA,1.0,FILM,6PIN,T0.3mm,	1	SA
T0407	BA81-03803A	INSULATOR-TOUCHPAD_TOP;ACCORDION,PC,W70.	1	SA
T0408	BA81-03896A	SHIELD-TOUCHPAD;PRAHA,AL,W7.0*L65.7*T0.1	1	SA
T2001	BA96-03296A	ASSY SPEAKER;PRAHA,P18CEG04SH2,180/465mm	1	SA
W3017	BA39-00485A	WIRE HARNESS-MODEM;CICHLID2,UL1571,-,2P,	1	SA
W4001	6001-001625	SCREW-MACHINE;BH,+,-,M2.6,L8,ZPC(BLK),SW	2	SA
W4002	6001-000730	SCREW-MACHINE;CH,+,-,M2,L7,ZPC(BLK),SWRC	2	SA
W4002	6001-001406	SCREW-MACHINE;CH,+,M2.0,L6.0,NI PLT,SWRC	2	SA
W4002	6001-001480	SCREW-MACHINE;CH,+,M3,L4.0,ZPC(BLK),SWRC	2	SA
W4002	6001-001570	SCREW-MACHINE;CH,+,-,M2,L4,ZPC(BLK),SWRC	1	SA
W4011	BA81-04210A	TAPE-SPEAKER;PRAHA,TESA,W20.0*L22.0*T0.1	2	SA

PRAHA (SRI)

CPU : Intel Merom (800MHz)
Chip Set : RS600ME & SB600
Remarks : Mobility Platform

Model Name : PRAHA
PBA Name : MAIN
PCB Code : TPT : BA41-00791A
GCE : BA41-00792A
NAN : BA41-00811A
Dev. Step : MP1.0 (8-Layer)
Revision : 1.0
T.R. Date : 2007.07.02

DRAW	CHECK	APPROVAL

Owner : SEC Mobile R & D Signature : X

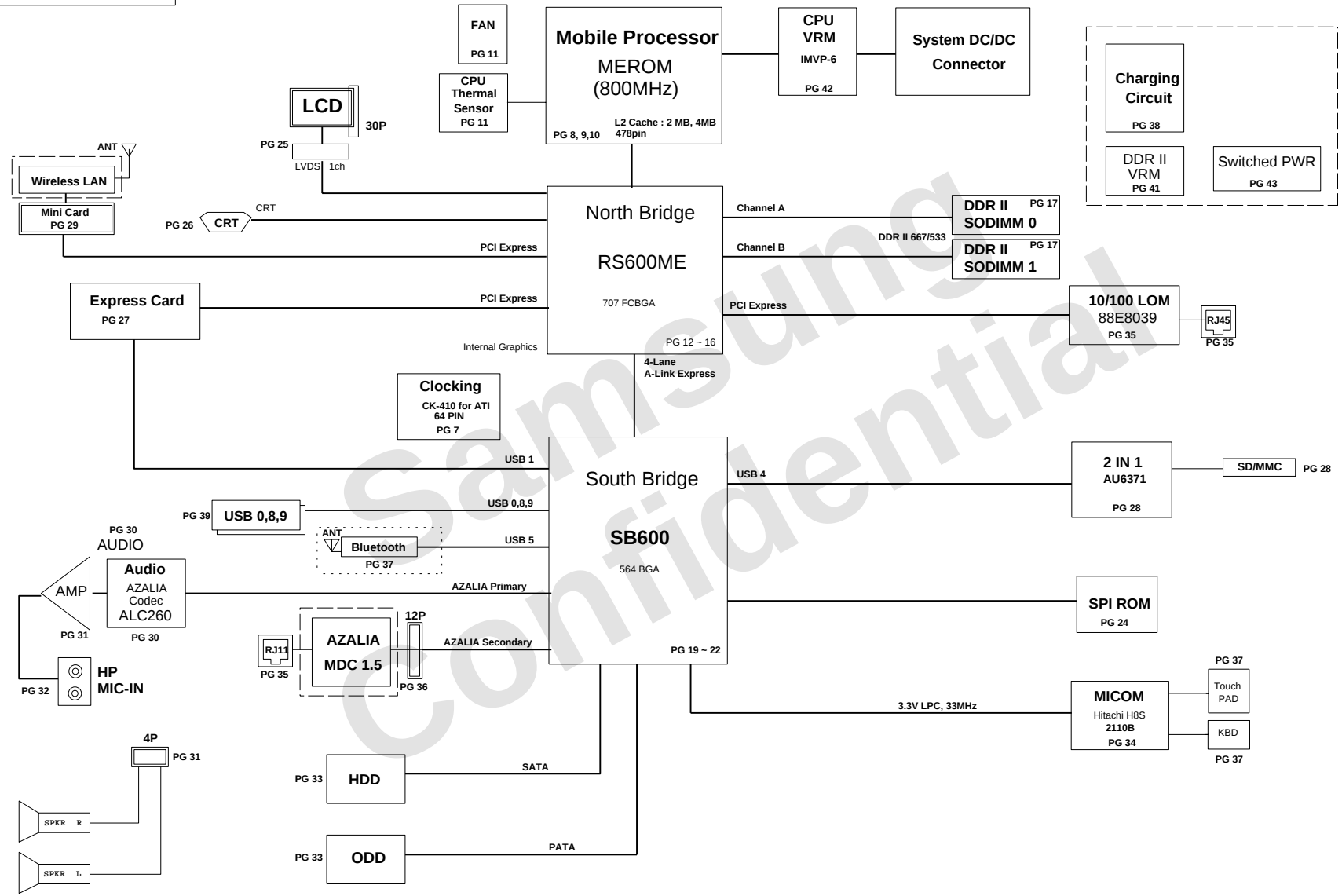
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USE ICT PORT

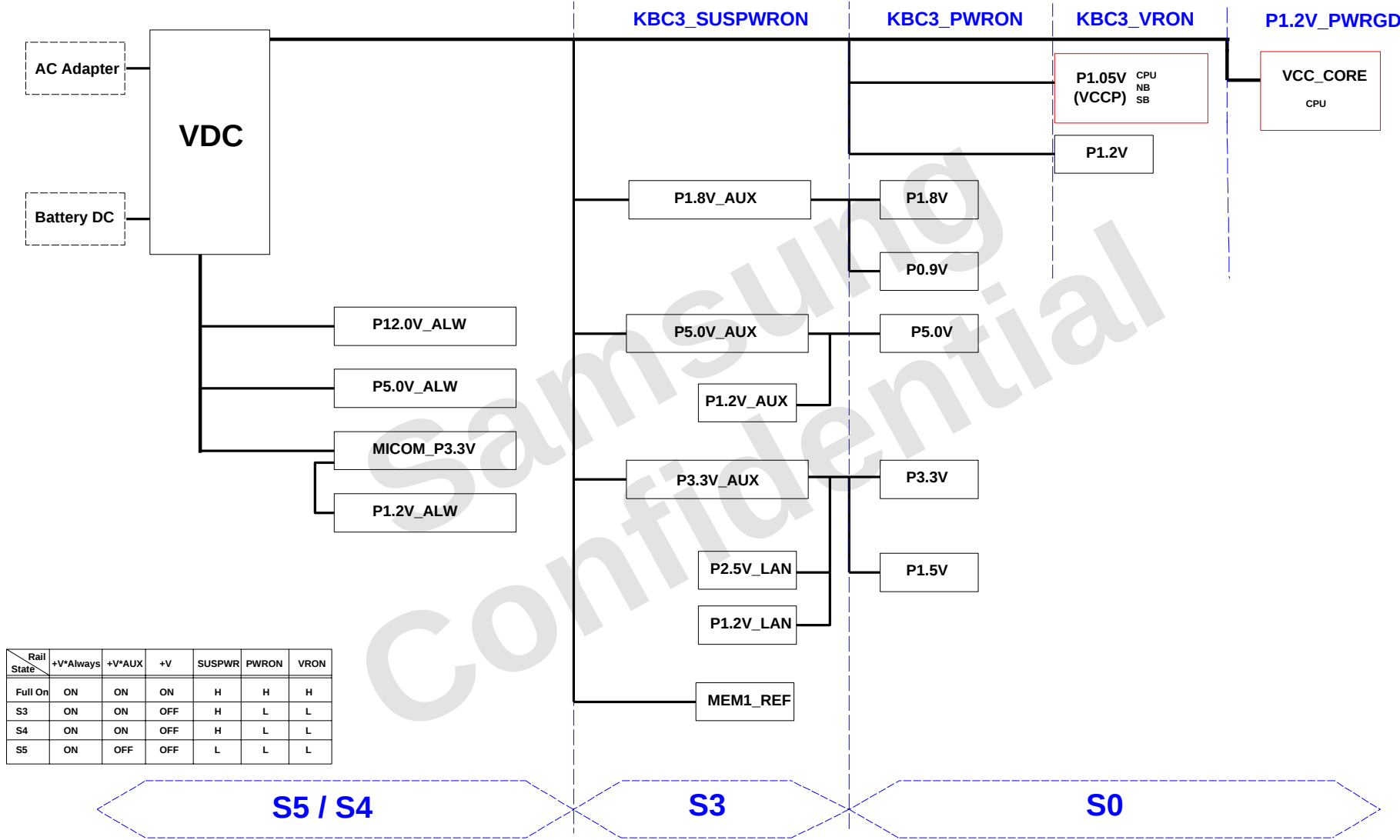
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APPROVAL	SJ PARK	REV	1.0	COVER		PART NO. BA41-00791A
MODULE CODE		LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	1	OF 47

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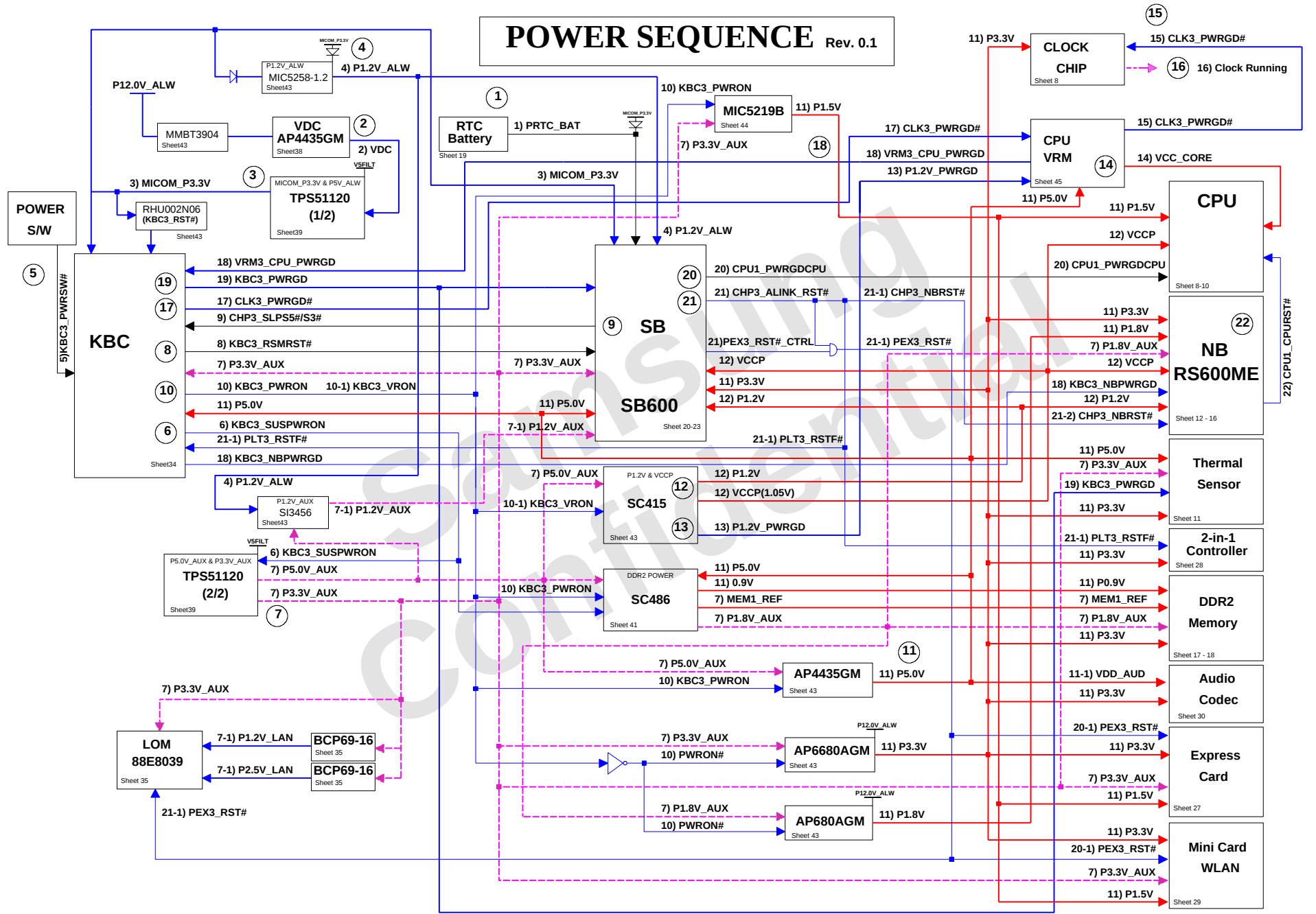


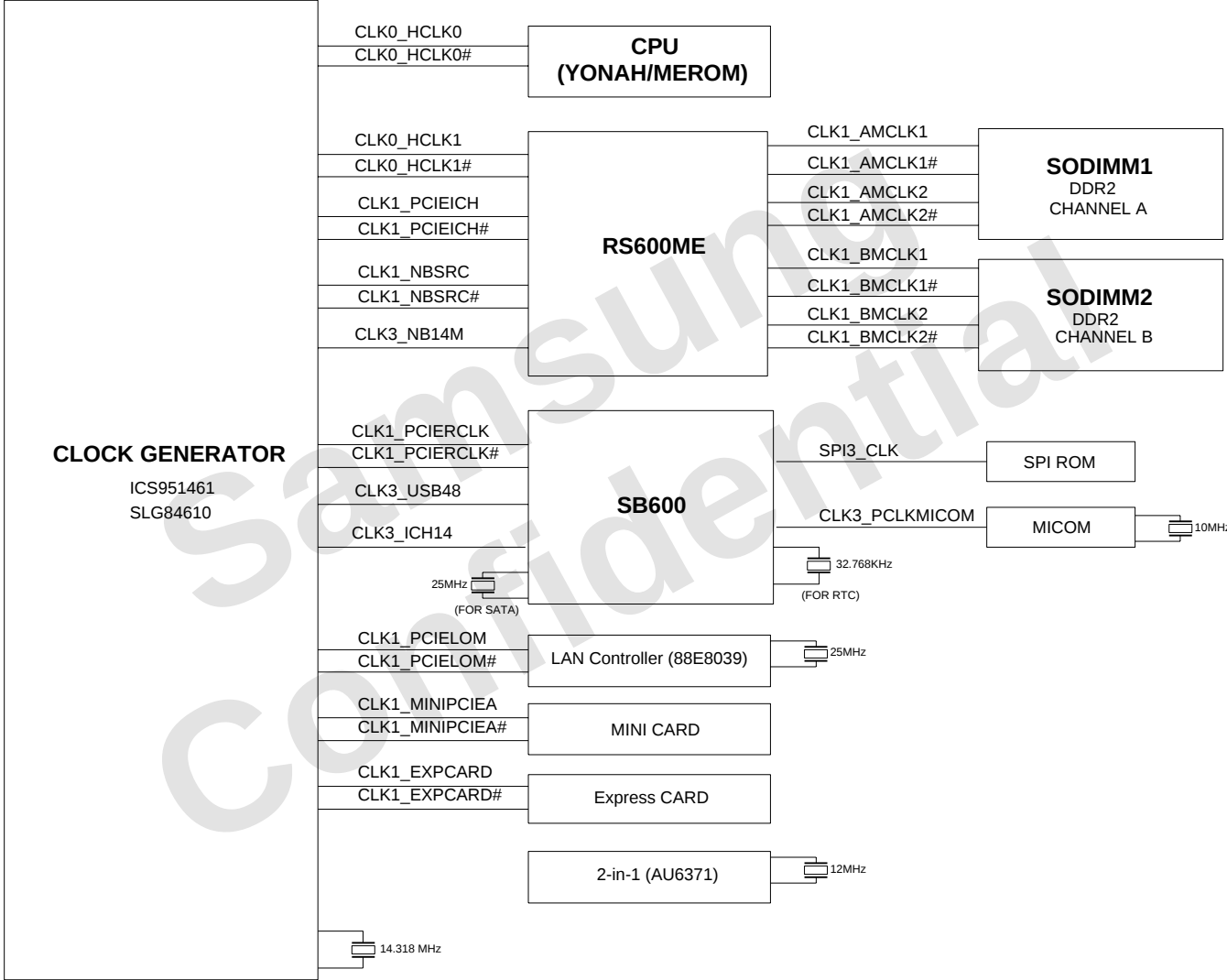
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CHECK	HJ KIM	DEV. STEP	MP	MAIN		ELECTRONICS
APPROVAL	SJ PARK	REV	1.0	OPERATION BLOCK DIAGRAM	PART NO.	BA41-00791A
MODULE CODE		LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	2	OF 47

Power Diagram



POWER SEQUENCE Rev. 0.1

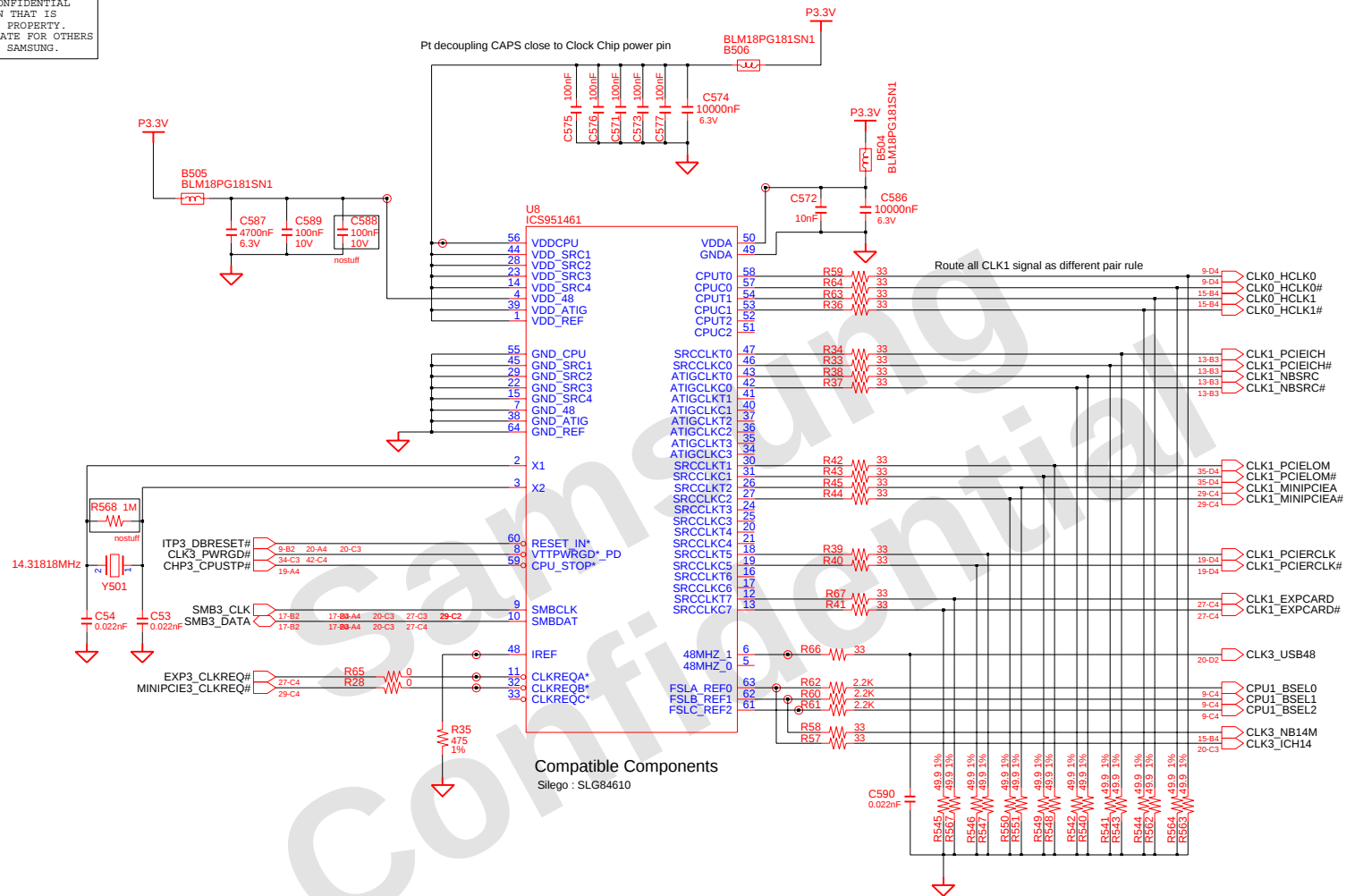




DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG
CHECK	HJ KIM	DEV. STEP	MP	CLOCK DIAGRAM		ELECTRONICS
APPROVAL	SJ PARK	REV	1.0		PART NO.	BA41-00791A
MODULE CODE		LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	5	OF 47

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Compatible Components

Silago : SLG84610

Place all te serias termination resistor as close as Clock Chip as possible

FSA, FSB, FSC of Clock chip are low threshold inputs
 $V_{th_fs_min} = 0.7V$
 $V_{il_fs_max} = 0.35V$

CPU	FSA BSEL0	FSB BSEL1	FSC BSEL2	HOST CLK
	0	0	0	266 MHz
	0	0	1	333 MHz
	0	1	0	200 MHz
	0	1	1	400 MHz
	1	0	0	133 MHz
	1	0	1	100 MHz
	1	1	0	166 MHz
	1	1	1	RSVD

Merom 800MHz

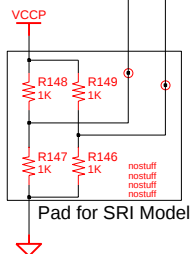
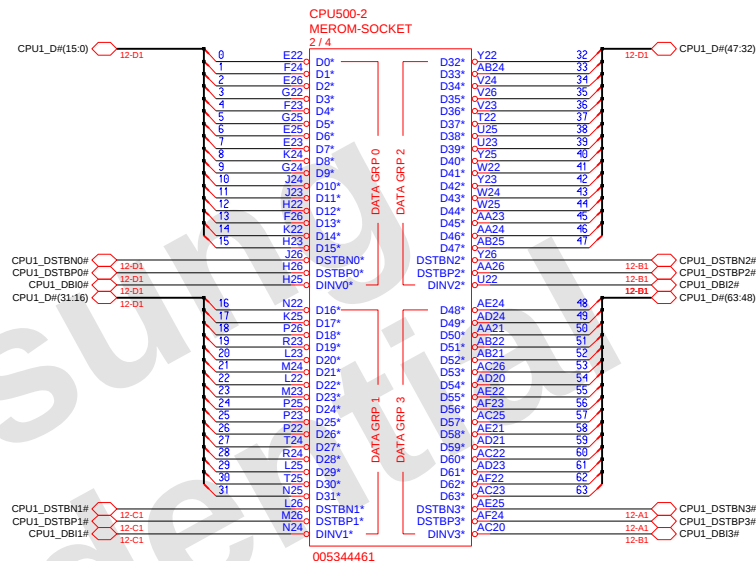
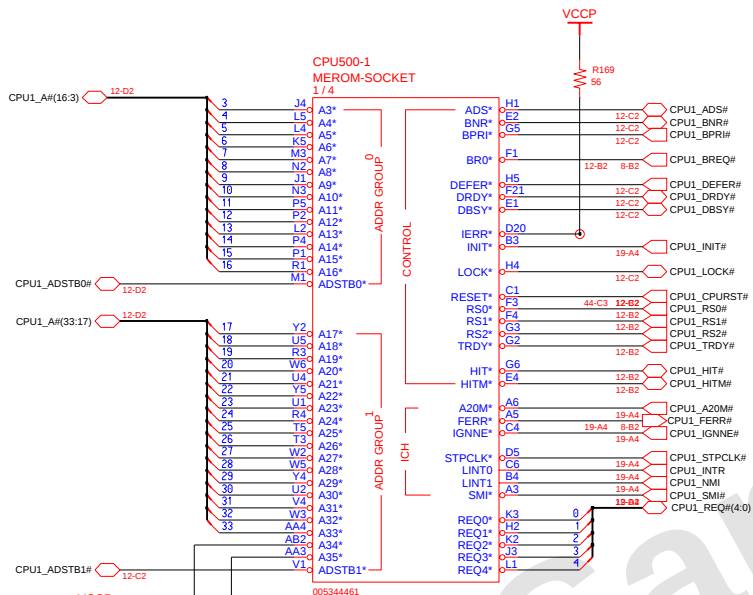
Celeron 533MHz

Merom 667MHz

DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP	MAIN		
APPROVAL	SJ PARK	REV	1.0	CLOCK GENERATOR	PART NO.	BA41-00791A
MODULE CODE		LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	7	OF 47

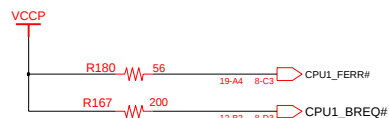
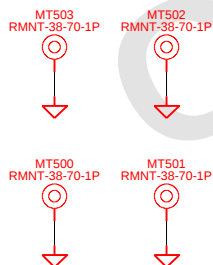
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**NOTE

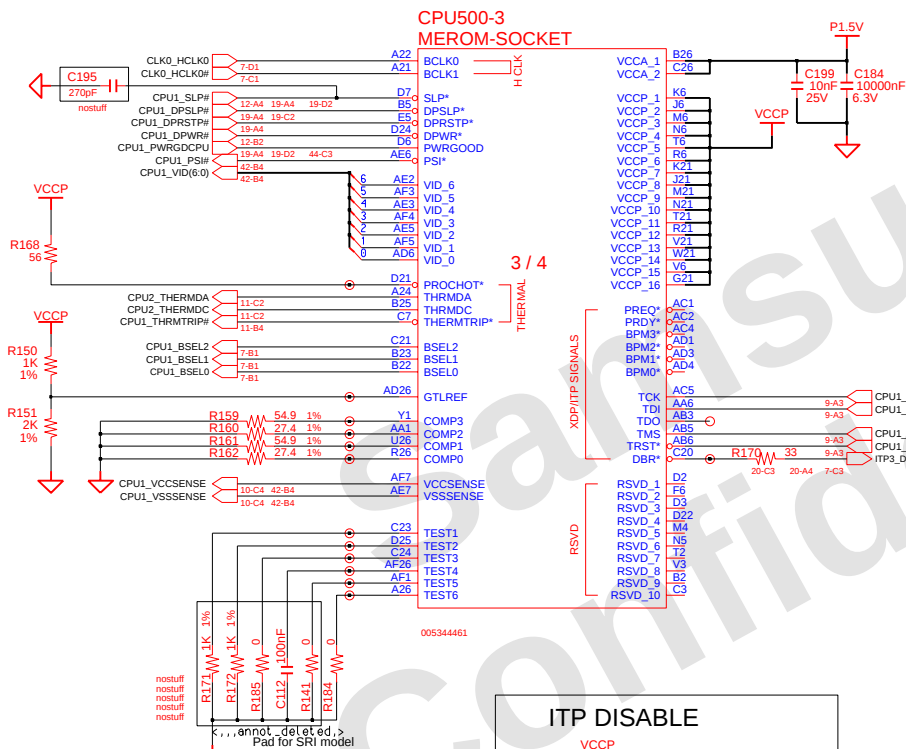
CPU Bracket Hole



DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP		MAIN	
APPROVAL	SJ PARK	REV	1.0		MEROM CPU (1/3)	
MODULE CODE		LAST EDIT				
July 2, 2007 11:28:38 PM						PAGE 8 OF 47

PART NO. BA41-00791A

CON-22C-015(1996.6.5) REV. 3



CPU Core Voltage Table IMVP-6

Active Mode		Active/Deeper Sleep Dual Mode Region		Deeper Sleep/Extended Deeper Sleep Dual Mode Region	
VID(6.0)	Voltage	VID(6.0)	Voltage	VID(6.0)	Voltage
0 0 0 0 0 0 0	1.5000 V	0 1 0 1 0 0 0	1.0000 V	1 0 1 0 0 0 1	0.4875 V
0 0 0 0 0 0 1	1.4875 V	0 1 0 1 0 0 1	0.9875 V	1 0 1 0 0 1 0	0.4750 V
0 0 0 0 0 1 0	1.4750 V	0 1 0 1 0 1 0	0.9750 V	1 0 1 0 1 0 1	0.4625 V
0 0 0 0 0 1 1	1.4625 V	0 1 0 1 1 0 1	0.9625 V	1 0 1 1 0 1 0	0.4500 V
0 0 0 0 1 0 0	1.4500 V	0 1 0 1 1 1 0	0.9500 V	1 0 1 1 1 0 1	0.4375 V
0 0 0 0 1 0 1	1.4375 V	0 1 0 1 1 1 1	0.9375 V	1 0 1 1 1 1 0	0.4250 V
0 0 0 0 1 1 0	1.4250 V	0 1 0 1 1 1 1	0.9250 V	1 0 1 1 1 1 1	0.4125 V
0 0 0 0 1 1 1	1.4125 V	0 1 0 1 1 1 1	0.9125 V	1 0 1 1 1 0 0	0.4000 V
0 0 0 1 0 0 0	1.4000 V	0 1 1 0 0 0 0	0.9000 V	1 0 1 1 1 0 1	0.3875 V
0 0 0 1 0 0 1	1.3875 V	0 1 1 0 0 0 1	0.8875 V	1 0 1 1 1 0 1	0.3750 V
0 0 0 1 0 1 0	1.3750 V	0 1 1 0 0 1 0	0.8750 V	1 0 1 1 1 0 1	0.3625 V
0 0 0 1 0 1 1	1.3625 V	0 1 1 0 0 1 1	0.8625 V	1 0 1 1 1 1 0	0.3500 V
0 0 0 1 1 0 0	1.3500 V	0 1 1 0 1 0 0	0.8500 V	1 0 1 1 1 1 0	0.3375 V
0 0 0 1 1 0 1	1.3375 V	0 1 1 0 1 0 1	0.8375 V	1 0 1 1 1 1 1	0.3250 V
0 0 0 1 1 1 0	1.3250 V	0 1 1 0 1 1 0	0.8250 V	1 0 1 1 1 1 1	0.3125 V
0 0 0 1 1 1 1	1.3125 V	0 1 1 0 1 1 1	0.8125 V	1 1 0 0 0 0 0	0.3000 V
0 0 1 0 0 0 0	1.3000 V	0 1 1 1 0 0 0	0.8000 V	1 1 0 0 0 0 1	0.2875 V
0 0 1 0 0 0 1	1.2875 V	0 1 1 1 0 0 1	0.7875 V	1 1 0 0 0 1 0	0.2750 V
0 0 1 0 0 1 0	1.2750 V	0 1 1 1 0 1 0	0.7750 V	1 1 0 0 0 1 1	0.2625 V
0 0 1 0 0 1 1	1.2625 V	0 1 1 1 0 1 1	0.7625 V	1 1 0 0 1 0 0	0.2500 V
0 0 1 0 1 0 0	1.2500 V	0 1 1 1 1 0 0	0.7500 V	1 1 0 0 1 0 1	0.2375 V
0 0 1 0 1 0 1	1.2375 V	0 1 1 1 1 0 1	0.7375 V	1 1 0 0 1 1 0	0.2250 V
0 0 1 0 1 1 0	1.2250 V	0 1 1 1 1 1 0	0.7250 V	1 1 0 0 1 1 1	0.2125 V
0 0 1 0 1 1 1	1.2125 V	0 1 1 1 1 1 1	0.7125 V	1 1 0 1 0 0 0	0.2000 V
0 0 1 1 0 0 0	1.2000 V	1 0 0 0 0 0 0	0.7000 V	1 1 0 1 0 0 1	0.1875 V
0 0 1 1 0 0 1	1.1875 V	1 0 0 0 0 0 1	0.6875 V	1 1 0 1 0 1 0	0.1750 V
0 0 1 1 0 1 0	1.1750 V	1 0 0 0 0 1 0	0.6750 V	1 1 0 1 0 1 1	0.1625 V
0 0 1 1 0 1 1	1.1625 V	1 0 0 0 1 0 0	0.6625 V	1 1 0 1 1 0 0	0.1500 V
0 0 1 1 1 0 0	1.1500 V	1 0 0 0 1 0 1	0.6500 V	1 1 0 1 1 0 1	0.1375 V
0 0 1 1 1 0 1	1.1375 V	1 0 0 0 1 0 1	0.6375 V	1 1 0 1 1 1 0	0.1250 V
0 0 1 1 1 1 0	1.1250 V	1 0 0 0 1 1 0	0.6250 V	1 1 0 1 1 1 1	0.1125 V
0 0 1 1 1 1 1	1.1125 V	1 0 0 1 0 0 0	0.6125 V	1 1 0 1 1 1 1	0.1000 V
0 1 0 0 0 0 0	1.1000 V	1 0 0 1 0 0 1	0.6000 V	1 1 1 0 0 0 0	0.0875 V
0 1 0 0 0 0 1	1.0875 V	1 0 0 1 0 0 1	0.5875 V	1 1 1 0 0 0 1	0.0750 V
0 1 0 0 0 1 0	1.0750 V	1 0 0 1 0 1 0	0.5750 V	1 1 1 0 0 1 0	0.0625 V
0 1 0 0 0 1 1	1.0625 V	1 0 0 1 0 1 1	0.5625 V	1 1 1 0 1 0 0	0.0500 V
0 1 0 0 1 0 0	1.0500 V	1 0 0 1 1 0 0	0.5500 V	1 1 1 0 1 0 1	0.0375 V
0 1 0 0 1 0 1	1.0375 V	1 0 0 1 1 0 1	0.5375 V	1 1 1 0 1 1 0	0.0250 V
0 1 0 0 1 1 0	1.0250 V	1 0 0 1 1 1 0	0.5250 V	1 1 1 0 1 1 1	0.0125 V
0 1 0 0 1 1 1	1.0125 V	1 0 0 1 1 1 1	0.5125 V	1 1 1 1 0 0 0	0.0000 V
		1 0 0 1 1 1 1	0.5000 V	1 1 1 1 0 0 1	0.0000 V
				1 1 1 1 0 1 0	0.0000 V
				1 1 1 1 0 1 1	0.0000 V
				1 1 1 1 1 0 0	0.0000 V
				1 1 1 1 1 0 1	0.0000 V
				1 1 1 1 1 1 0	0.0000 V
				1 1 1 1 1 1 1	0.0000 V
				**11111111 : 0V power good asserted.	
Active		Deeper Sleep			
DPRSLPVR	0	DPRSLPVR	1		
DPRSTP*	1	DPRSTP*	0		
PSI2*	0 or 1	PSI2*	0 or 1		

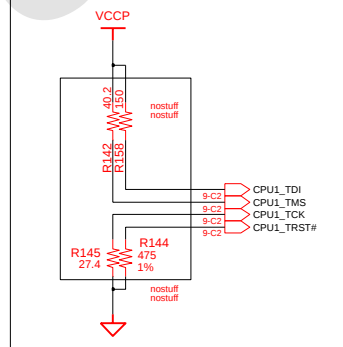
*Yonah Processor (2.33 GHz / 800 MHz : TBD)

GTLREF : Keep the Voltage divider within 0.5" of the first GTLREF0 pin with Zo=55ohm trace. Minimize coupling of any switching signals to this net.

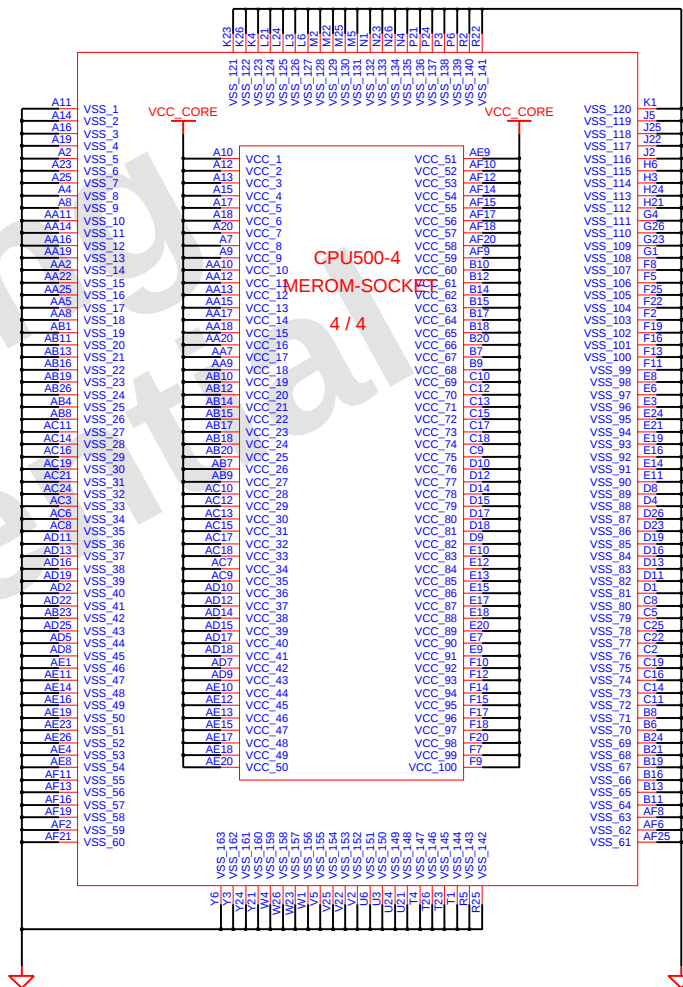
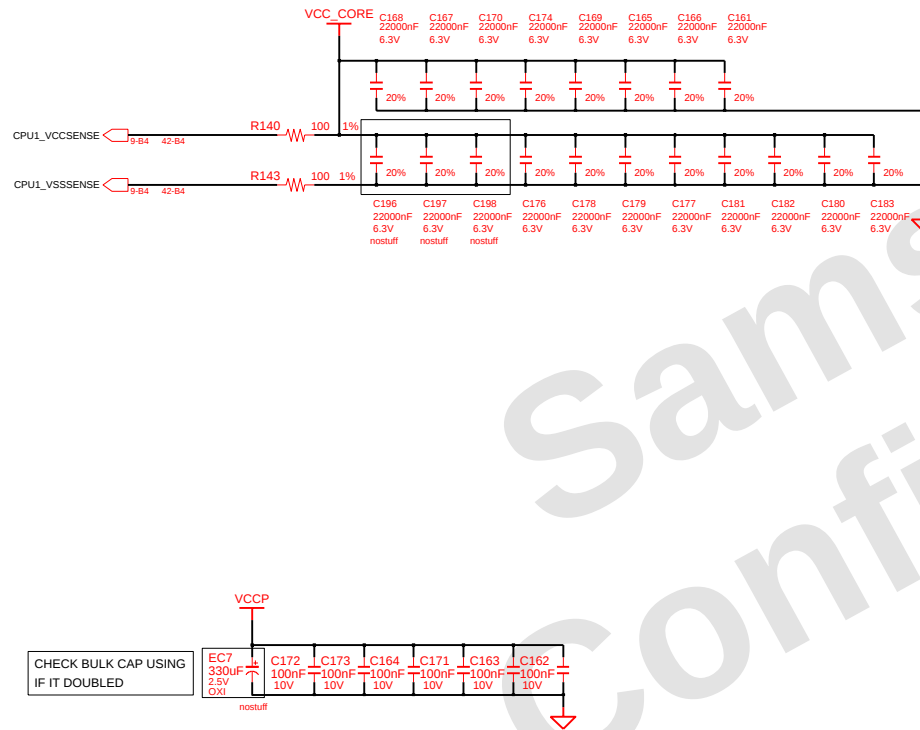
COMP0,2(COMP1,3) should be connected with Zo=27.4ohm(55ohm) trace shorter than 1/2" to their respective Banias socket pins.

GND test points within 100mil of the VCC/VSSsense at the end of the line. Route the VCC/VSSsense as a Zo=55ohm traces with equal length. Observe 3:1 spacing b/w VCC/VSSsense lines and 25mil away (preferred 50mil) from any other signal. And GND via 100mil away from each of the VCC/VSS test point vias.

ITP DISABLE

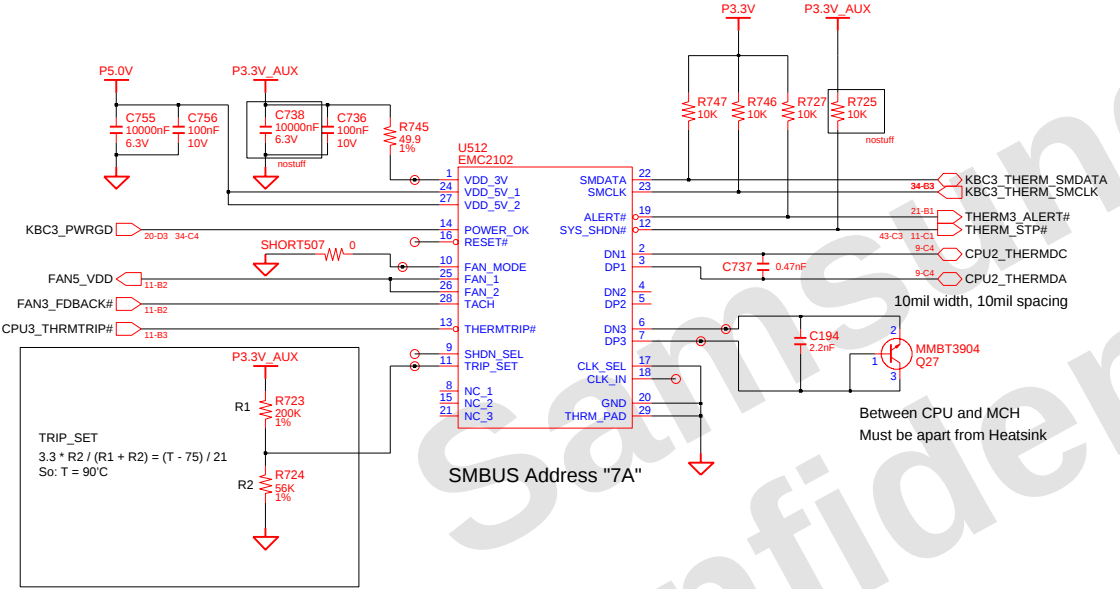


Deleted 13 De-cap (Only use 19pcs out of 32)

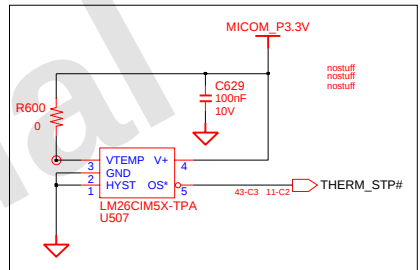


Thermal Monitor

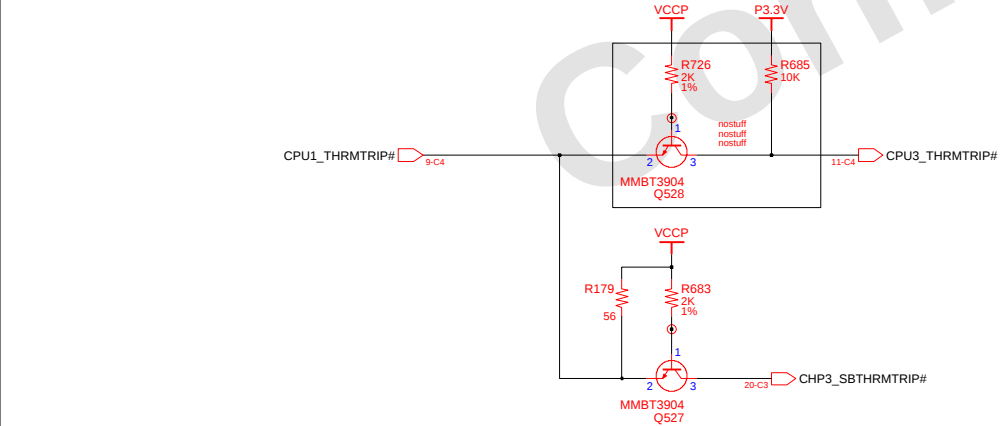
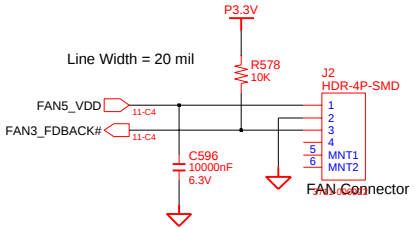
- Refer To Thermal Sensor Layout Guidelines.
- Place the Thermal Sensor close to a remote diode.
 - Keep traces away from high voltage (+12V bus)
 - Keep traces away from fast data buses and CRT signal.
 - Use recommended trace widths and spacings (10mil)
 - Place a ground plane under the traces.
 - Use guard traces flanking DXP and DXN and connecting to GND



OTP (NOSTUFF)

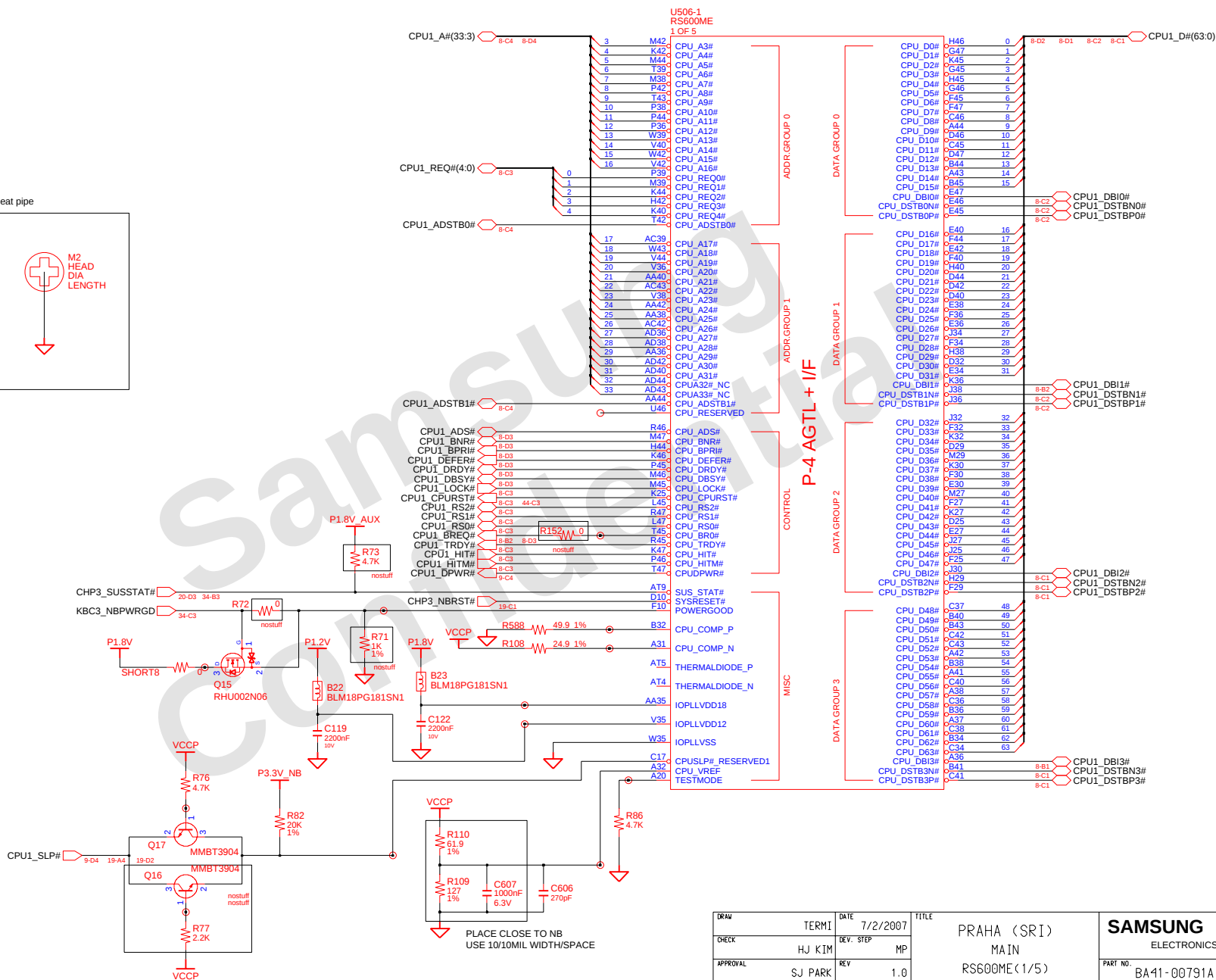
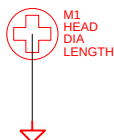


FAN Control

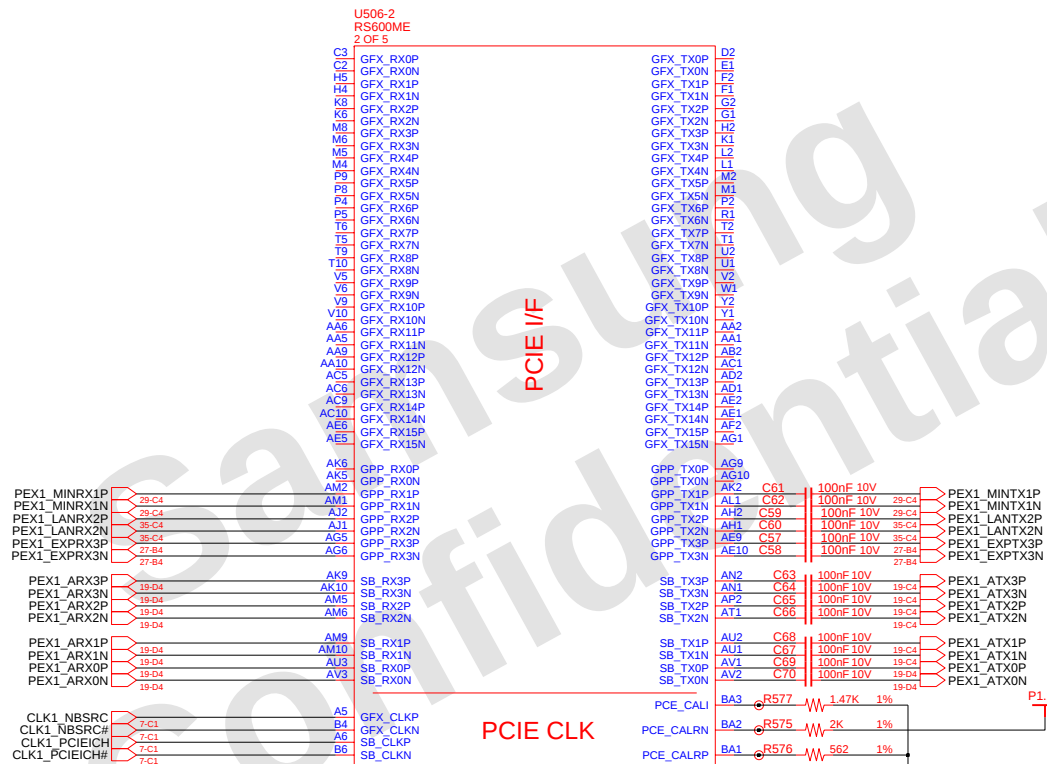


DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP	MAIN		
APPROVAL	SJ PARK	REV	1.0	THERMAL SENSOR/FAN CNTRL	PART NO.	BA41-00791A
MODULE CODE		LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	11	OF 47

For heat pipe

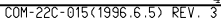


DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG
CHECK	HJ KIM	DEV. STEP	MP		MAIN	ELECTRONICS
APPROVAL	SJ PARK	REV	1.0		RS600ME(1/5)	PART NO.
MODULE CODE		LAST EDIT				BA41-00791A
				July 2, 2007 11:28:38 PM	PAGE	12 OF 47



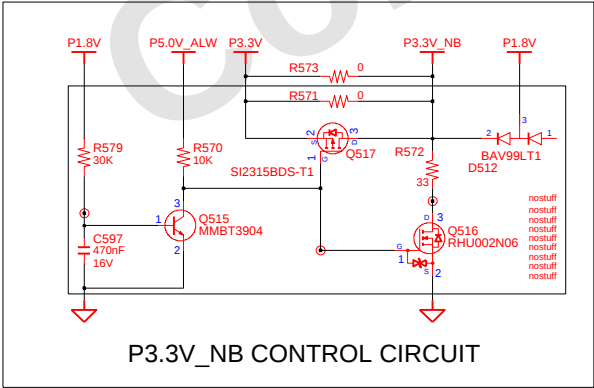
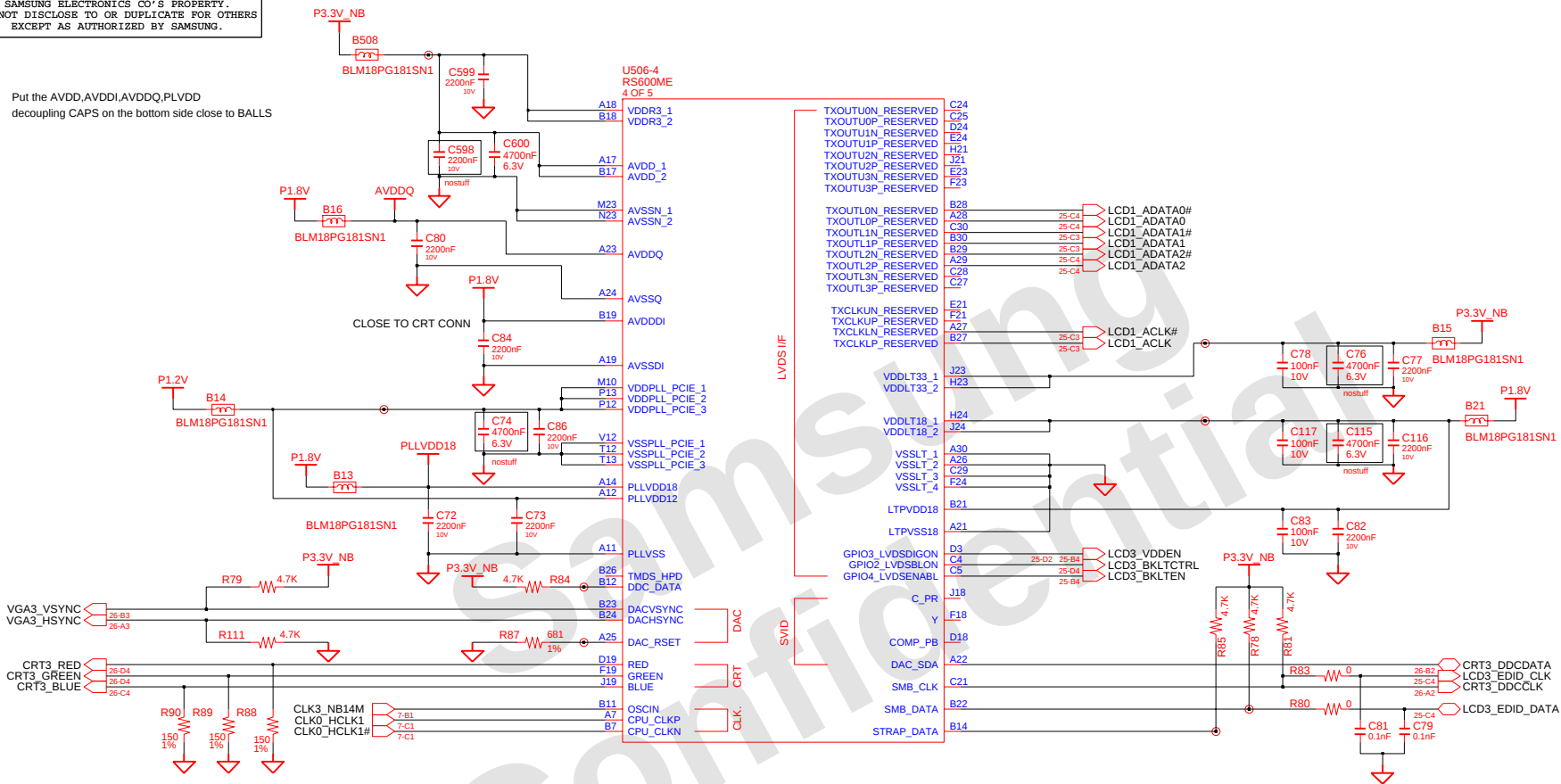
PEX1_MIN	Mini Card I/F
PEX1_LAN	LOM I/F
PEX1_EXP	Express Card I/F

IRAW	TERM1	DATE	7/2/2007	TITLE	PRAHA (SRI) MAIN RS600ME(2/5)	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP			
APPROVAL	SJ PARK	REV	1.0			
MODULE CODE	LAST EDIT		July 2, 2007 11:28:38 PM			



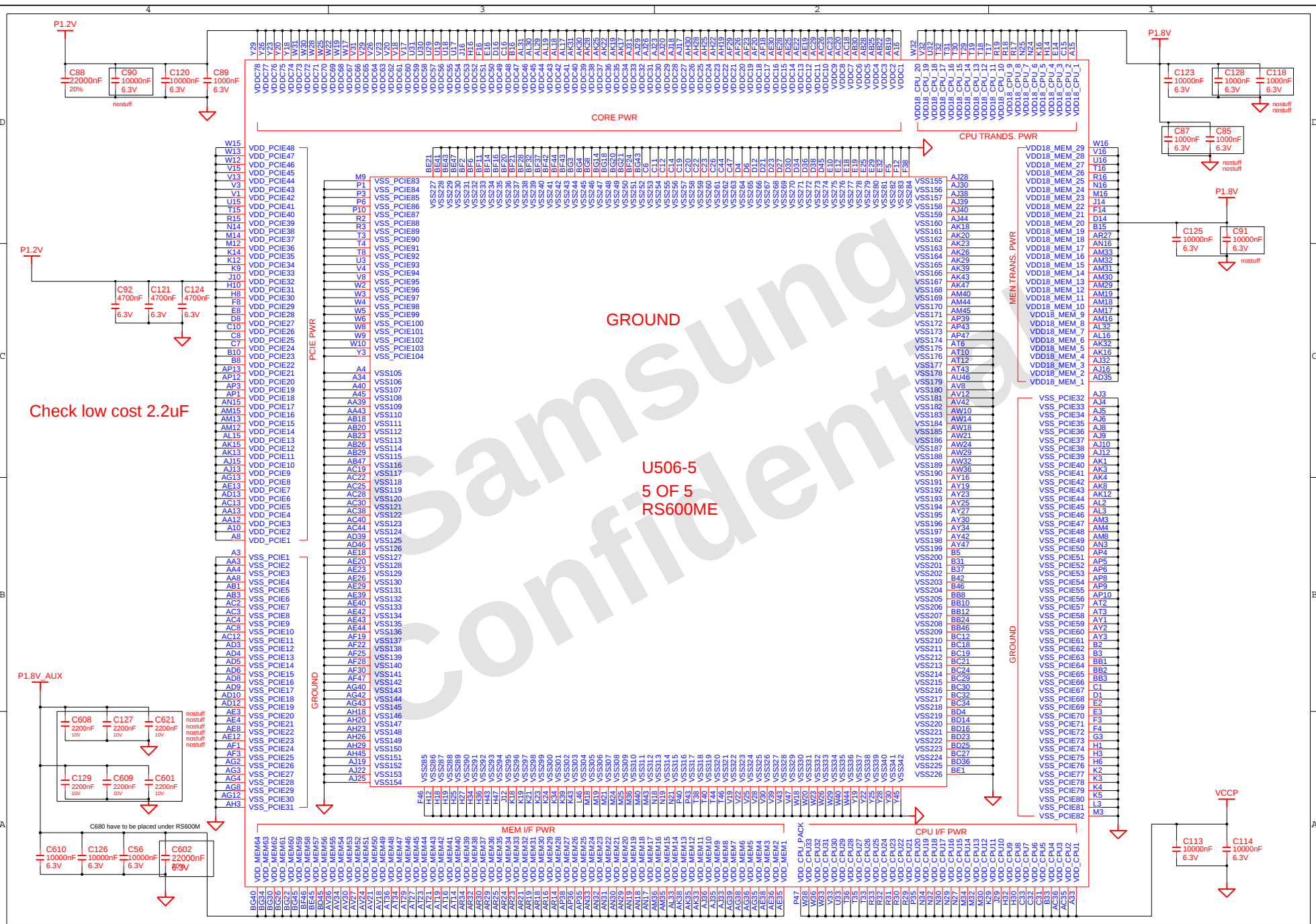
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Put the AVDD, AVDDI, AVDDQ, PLVDD
decoupling CAPS on the bottom side close to BALLS



STRAP DEFINITIONS FOR THE RS600M	
STRAP PIN	DESCRIPTION
DACHSYN	Enable/Disable integrated graphics. 0 : Enable integrated graphics 1 : Disable integrated graphics
STRP_DATA	Debug strap configuration. This strap should not be set to "0" on production boards. 0 : Select Memory Channel A to be a debug bus 1 : Read debug straps from an external EEPROM, or disable debug mode when an EEPROM is absent.
DACVSYN	Select configuration of the integrated graphics engine. 0 : Reserved 1 : Required setting for the RS600M
DDC_DATA	Select DDR2 or DDR3 signalling level for the memory interface. 0 : DDR3. On DDR3, it is necessary to put an isolation FET in series with the pull-up resistor on this strap to separate it from the I2C circuit during an NB reset 1 : DDR2

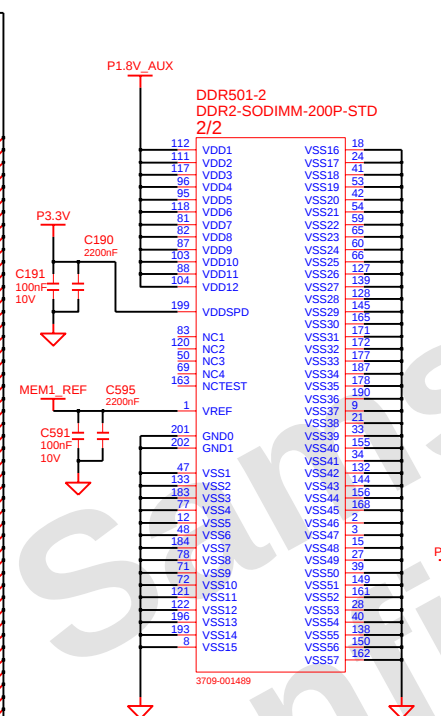
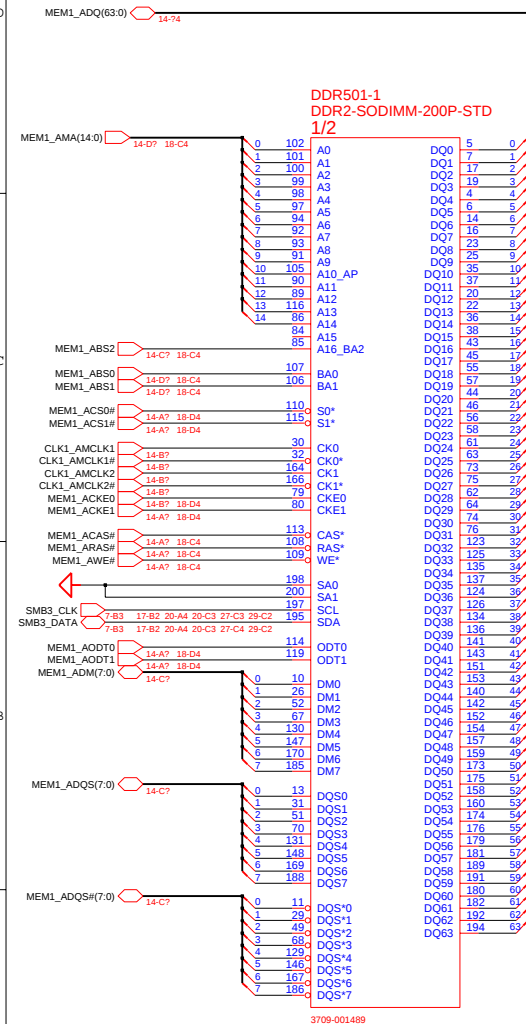
DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP		MAIN	
APPROVAL	SJ PARK	REV	1.0		RS600ME (4/5)	PART NO.
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM			BA41-00791A
						PAGE 15 OF 47



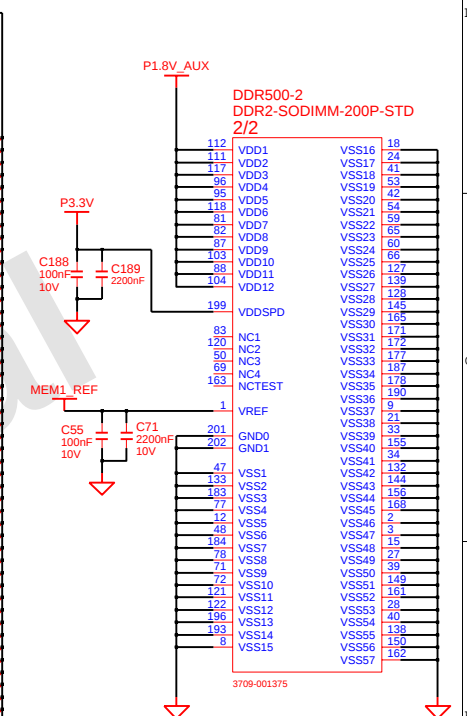
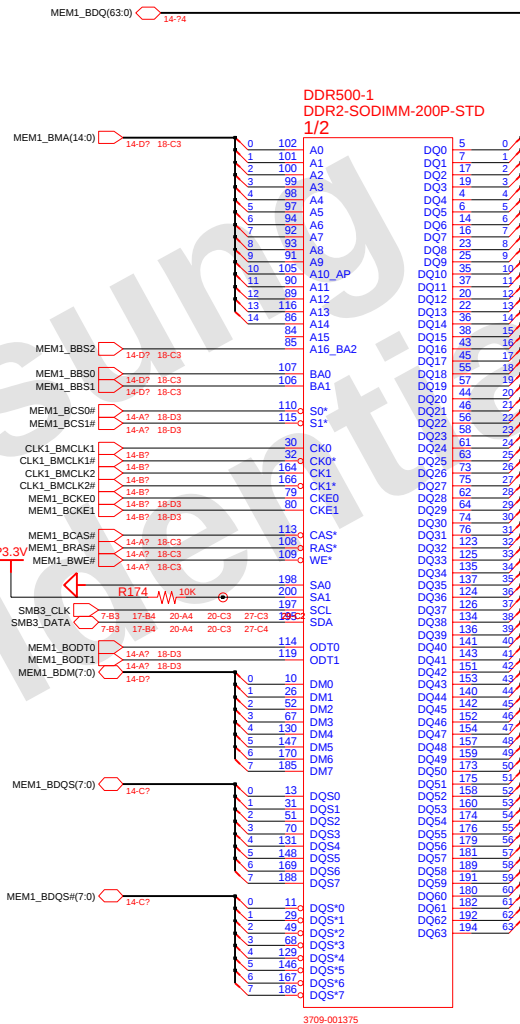
Check low cost 2.2uF

GROUND

U506-5
5 OF 5
RS600ME



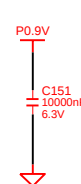
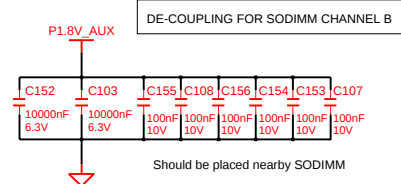
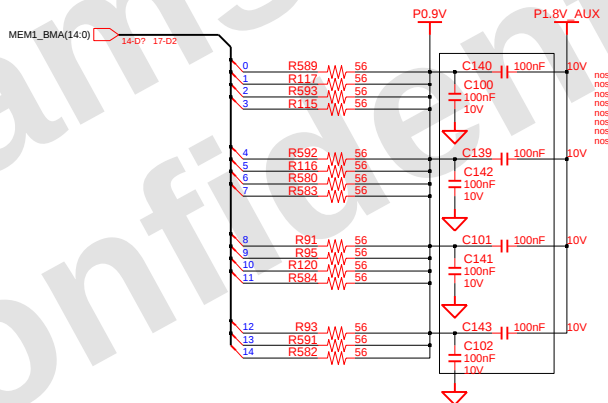
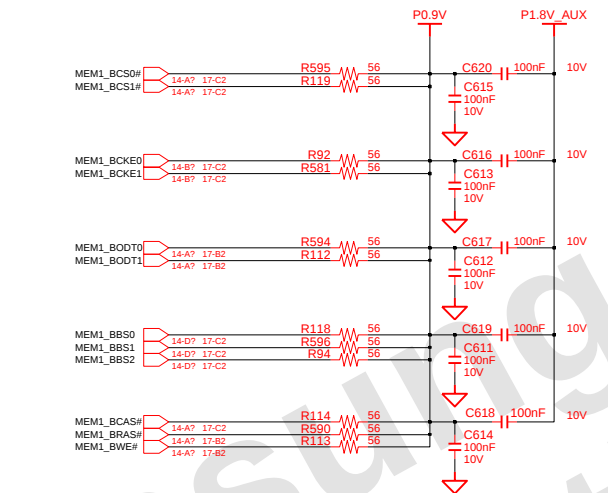
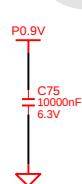
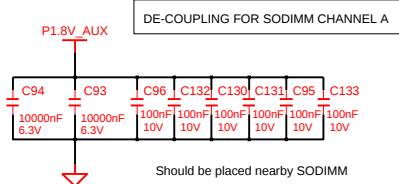
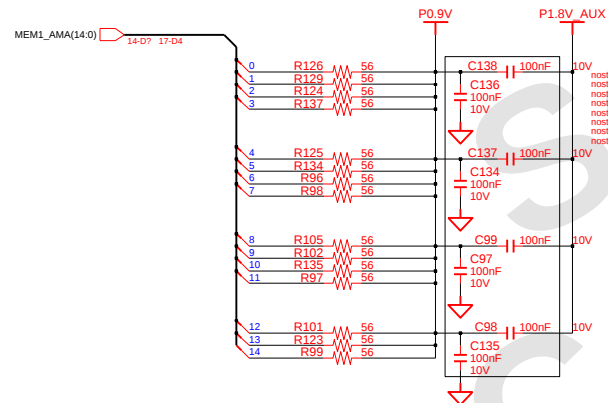
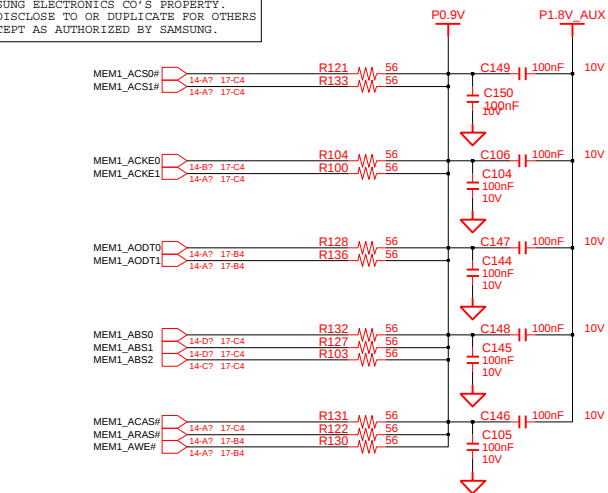
J4 Height : 9.2mm



DDR1 Height : 5.2mm

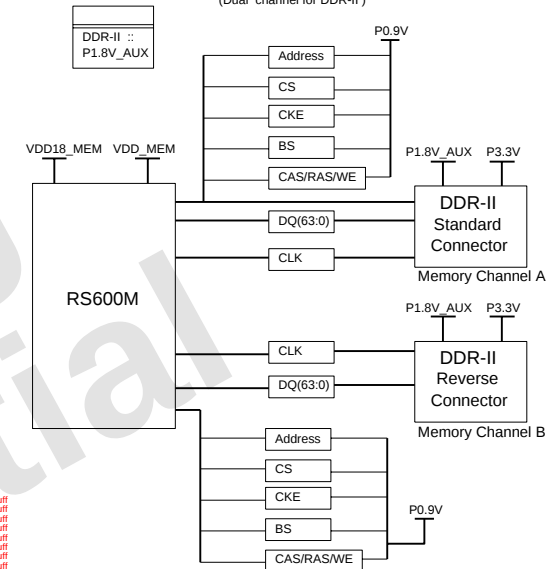
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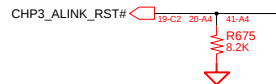


Memory Topology

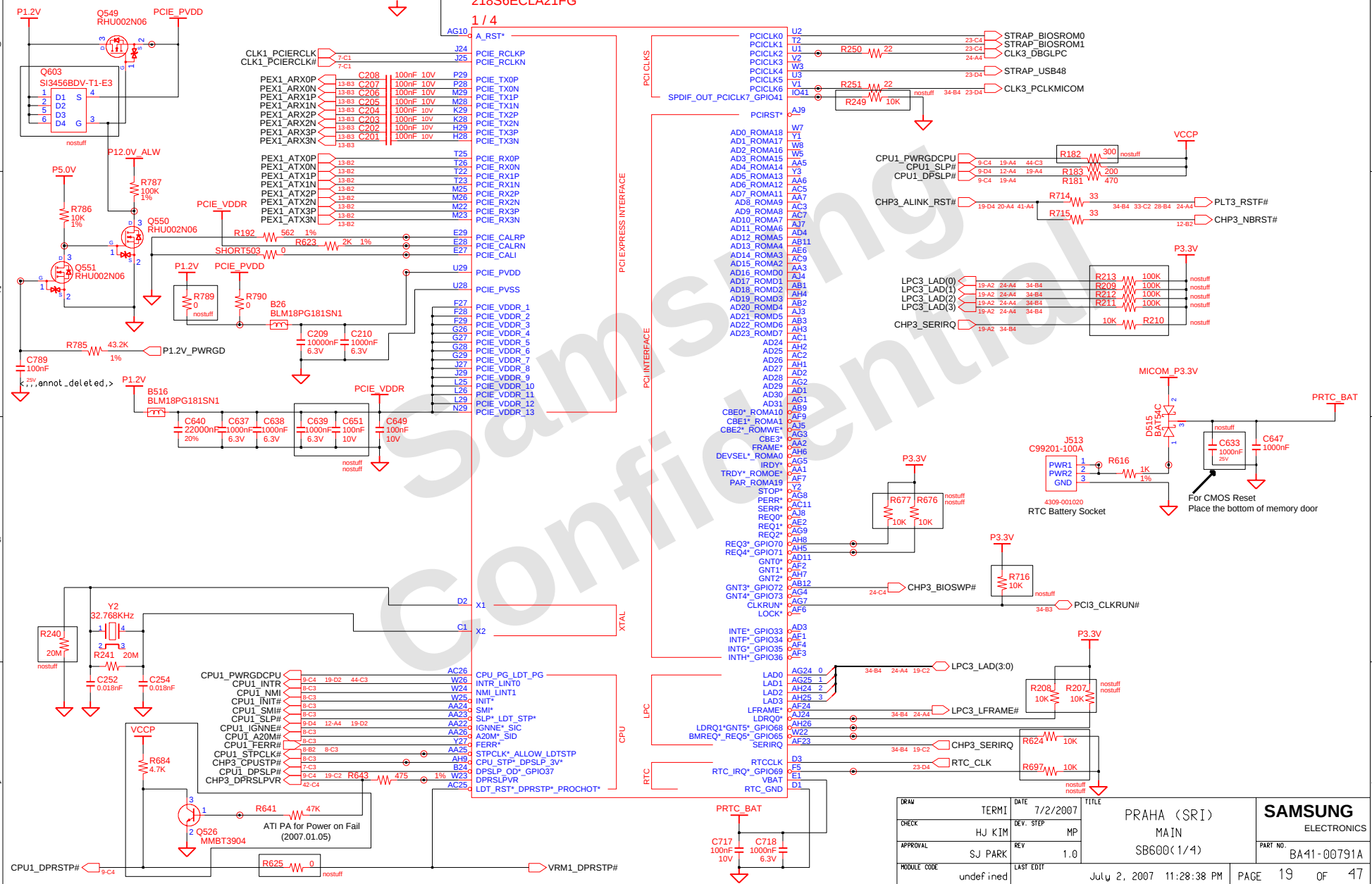
(Dual channel for DDR-II)



DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP	MAIN		
APPROVAL	SJ PARK	REV	1.0	DDR2 - TERMINATION	PART NO.	BA41-00791A
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	18	OF 47

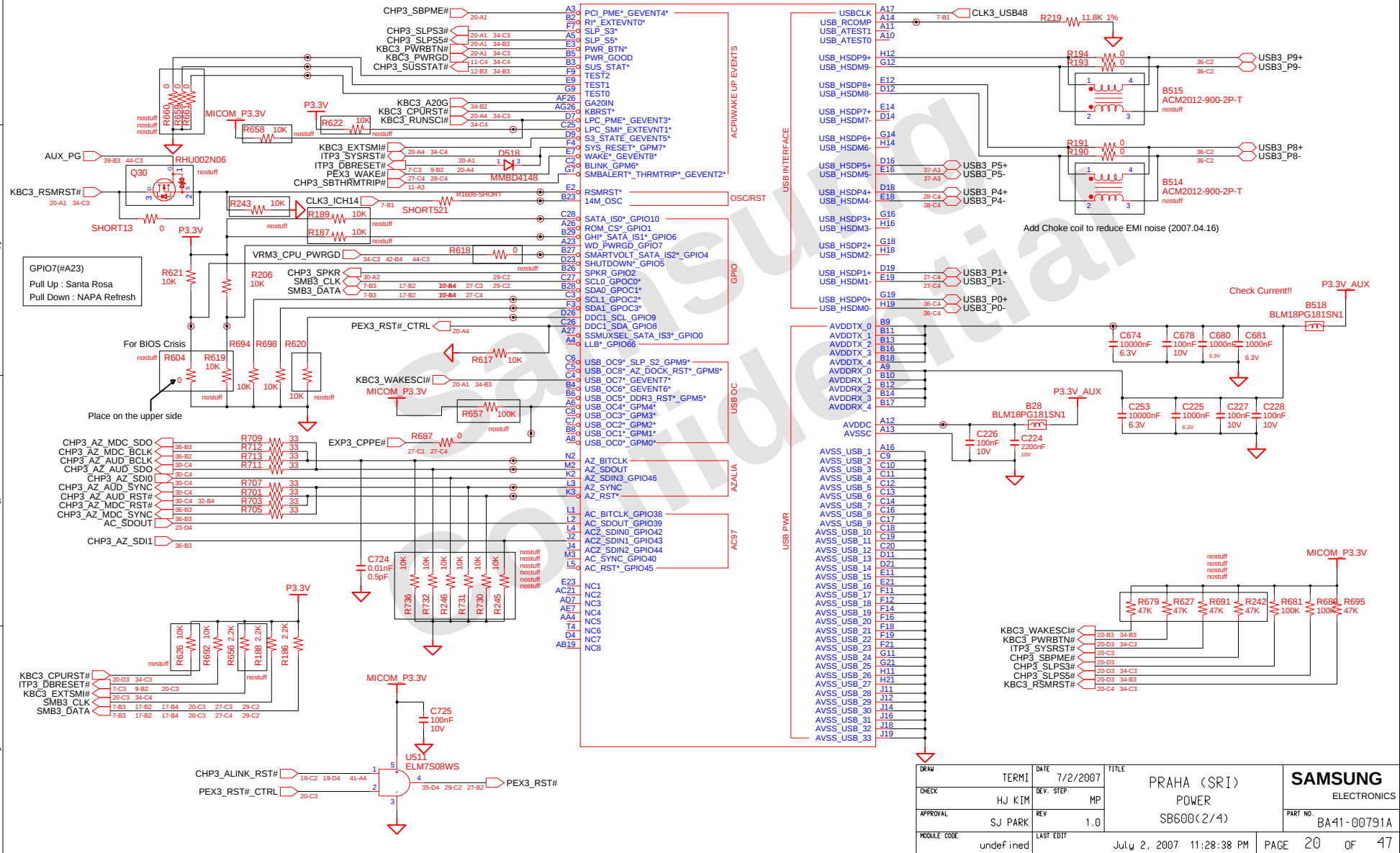


1 / 4



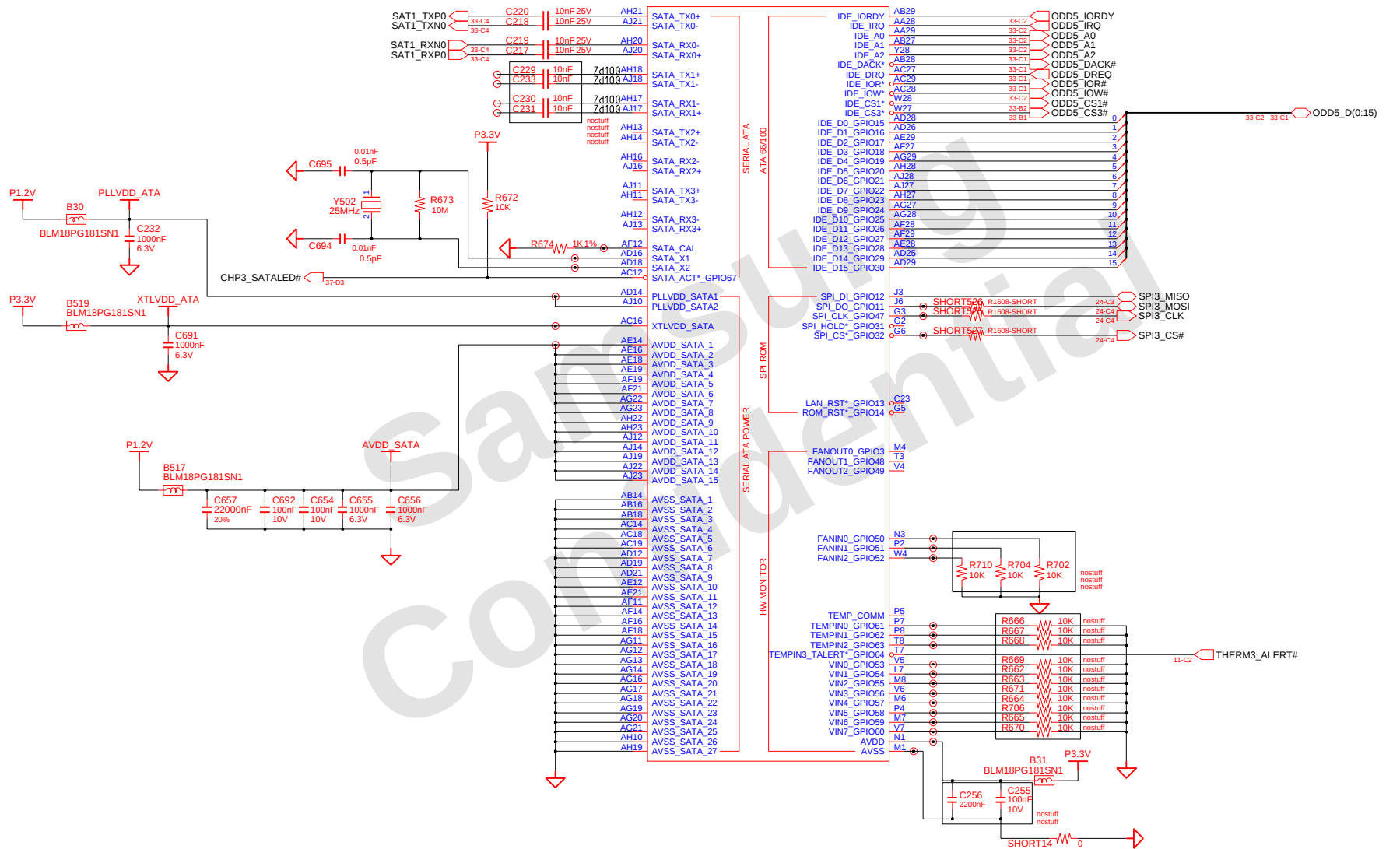
USB Port 0 : Left side USB Port
USB Port 1 : Express Card
USB Port 4 : 2-in-1 Memory Card
USB Port 5 : Bluetooth I/F
USB Port 8, 9 : Rear side USB Port

3. DCL, DME*, CEVENT4*



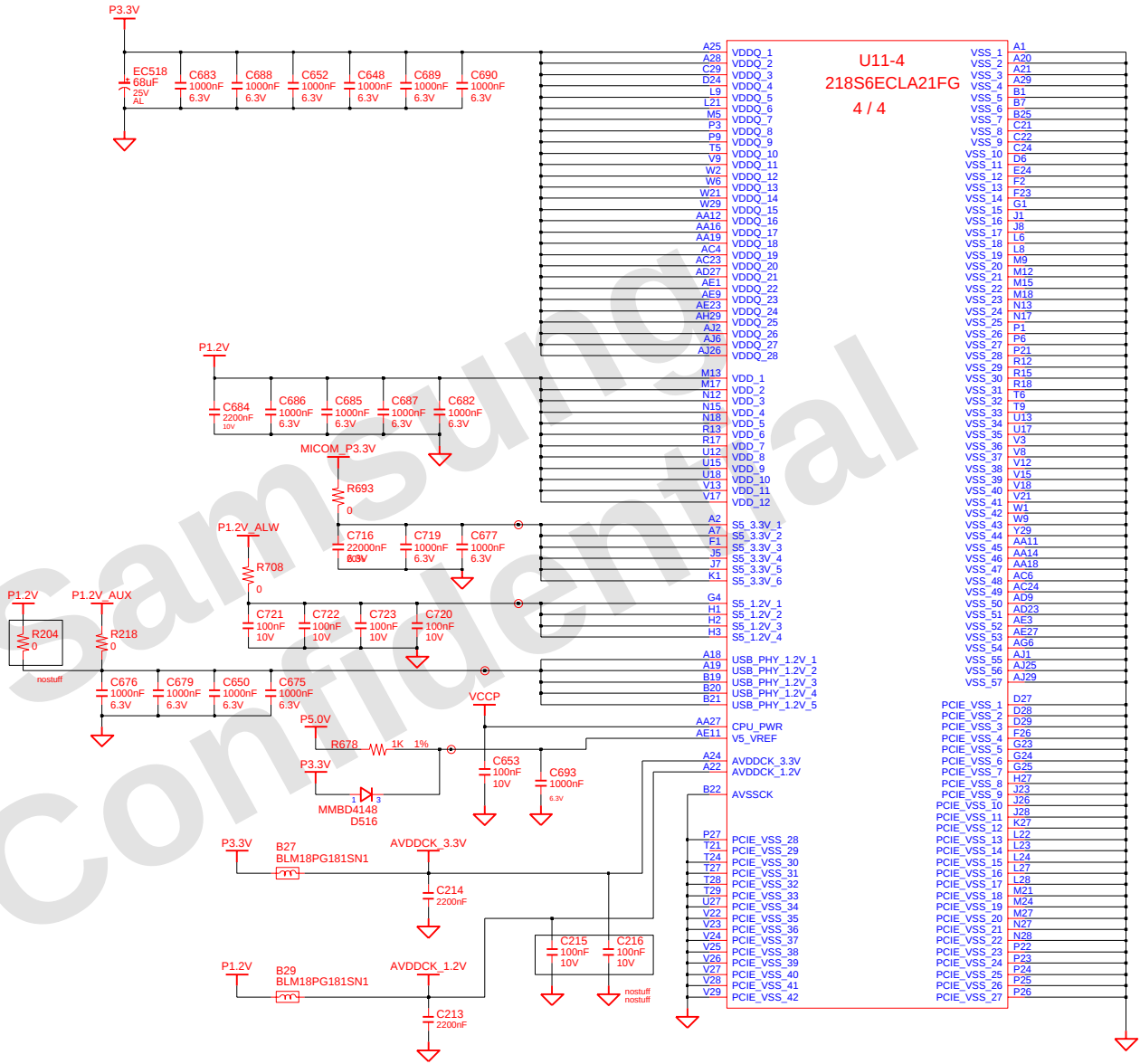
DRAW	TERM1	DATE	7/2/2007	TITLE	PRAHA (SRI) POWER SB600(2/4)	SAMSUNG ELECTRONICS PART NO. BA41-00791A		
CHECK	HJ KIM	DEV. STEP	MP					
APPROVAL	SJ PARK	REV	1.0					
MODULE CODE	LAST EDIT		July 2, 2007 11:28:38 PM					

U11-3
218S6ECLA21FG
3 / 4



DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP	MAIN		
APPROVAL	SJ PARK	REV	1.0	SB600(3/4)	PART NO.	BA41-00791A
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	21	OF 47

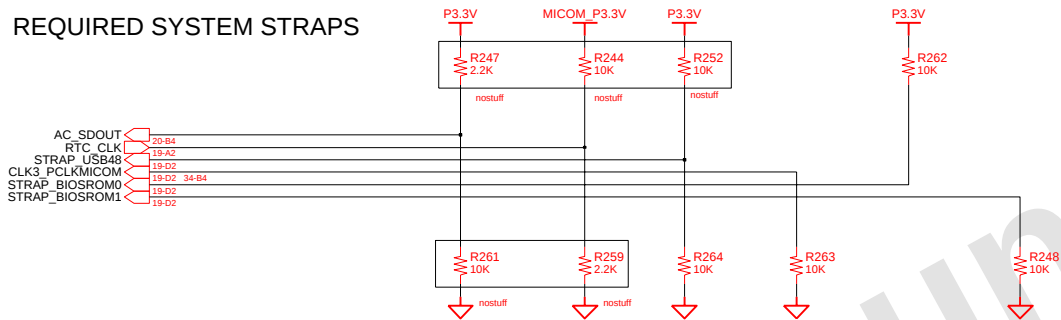
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DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP	MAIN		
APPROVAL	SJ PARK	REV	1.0	SB600(4/4)	PART NO.	
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	22 OF 47	

SB600 HAS AN INTERNAL PD FOR AC_SDOUT
SB600 HAS AN INTERNAL PU FOR RTC_CLK

REQUIRED SYSTEM STRAPS



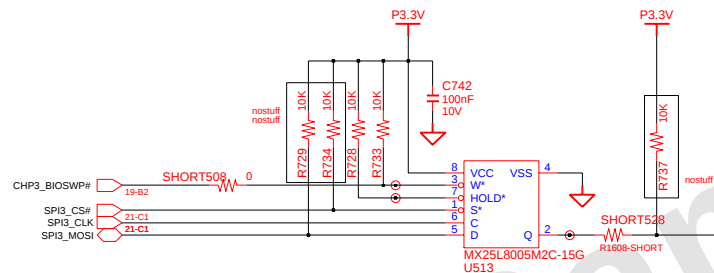
	AC_SDOUT	RTC_CLK	PCI3_CLK4	PCI3_CLK6	PCI3_CLK0	PCI3_CLK1
STRAP HIGH	USE DEBUG STRAPS	INTERNAL RTC	USE INTERNAL PLL48	CPU I/F = K8	ROM TYPE H, H = PCI ROM H, L = SPI ROM L, H = LPC ROM L, L = FWH ROM	
STRAP LOW	IGNORE DEBUG STRAPS	EXRERNAL RTC (PD on X1, Apply 32KHz to RTC_CLK)	USE EXTERNAL 48MHz	CPU I/F = P4		

DEBUG STRAPS

	PCI3_AD(28)	PCI3_AD(27)	PCI3_AD(26)	PCI3_AD(25)	PCI3_AD(24)	PCI3_AD(23)
STRAP HIGH	USE LONG RESET	USE PCI PLL	USE ACPI BCLK	USE IDE PLL	USE DEFAULT PCIE STRAPS	BOOTFAILTIMER DISABLED
STRAP LOW	USE SHORT RESET	BYPASS PCI PLL	BYPASS ACPI BCLK	BYPASS IDE PLL	USE EEPROM PCIE STRAPS	BOOTFAILTIMER ENABLED

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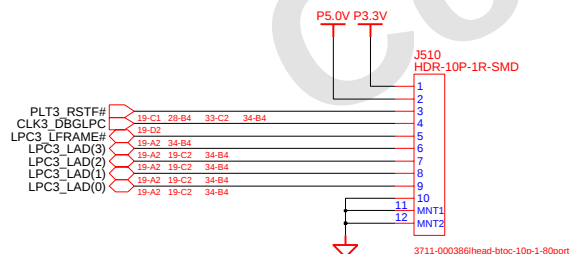
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SPI3_CS#

SB600 prior to A21 : Pulled up to P3.3V_ALW with 1Kohm resistor.
 SB600 A21 and newer : No external pull-up resistor required.

DEBUG CARD CONN



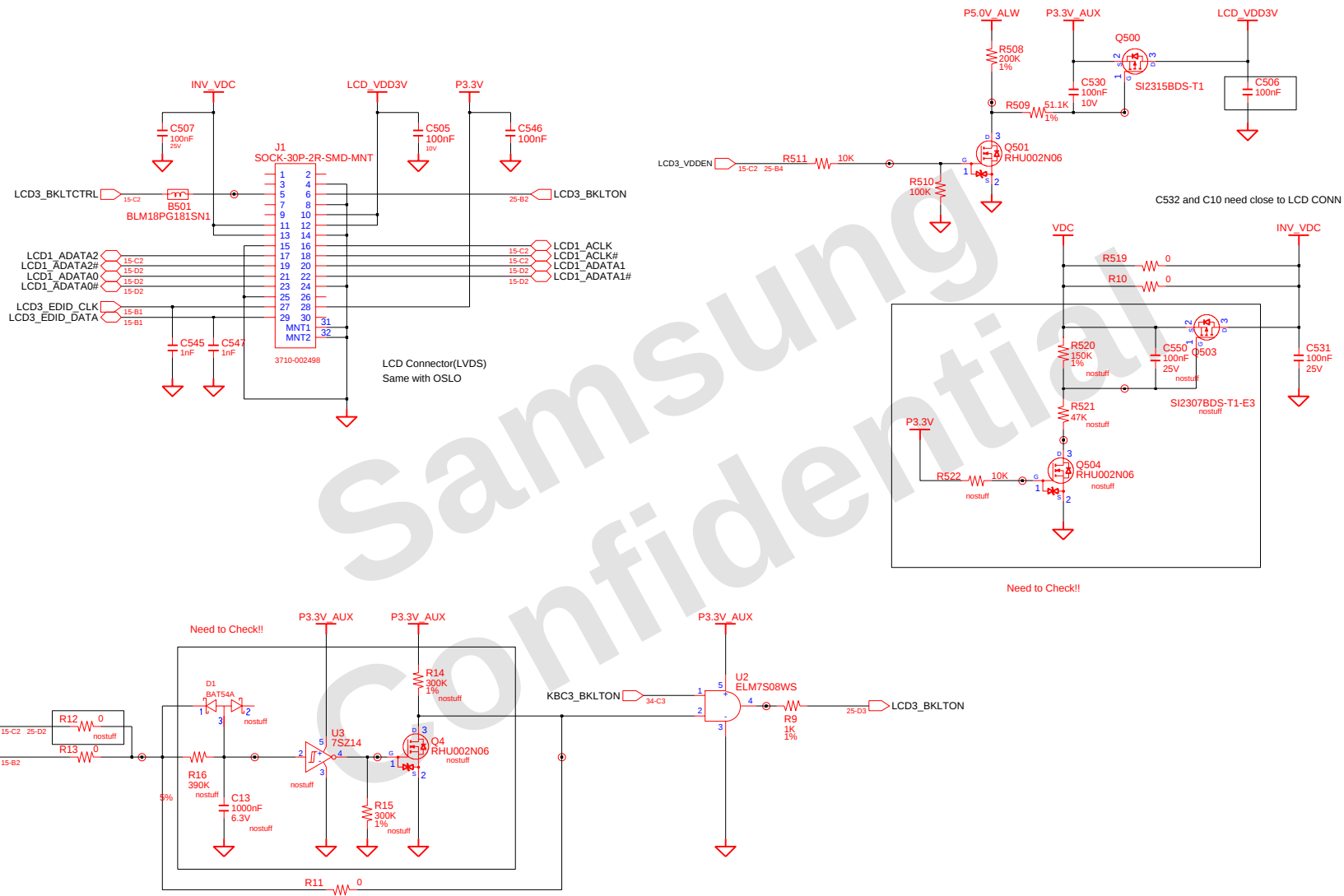
3711-000386/head-bloc-10p-1-80port

- | | | | |
|----|------------------------------------|----|---------------------------------|
| 02 | VERIFY REAL MODE | 66 | CONFIGURE ADVANCE CACHE REG. |
| 03 | DISABLE NMI | 6A | DISPLAY EXTERNAL CACHE SIZE |
| 04 | GET CPU TYPE | 6C | DISPLAY SHADOW MESSAGE |
| 06 | INIT. SYSTEM H/W | 6E | DISPLAY NON-DISPOSABLE SEGMENT |
| 08 | INIT. CHIPSET REG. | 70 | DISPLAY ERROR MESSAGE |
| 09 | SET IN POST FLAG | 72 | CHECK FOR CONFIGURATION ERROR |
| 0A | INIT CPU.REG | 74 | TEST REAL-TIME CLOCK |
| 0B | CPU CACHE ON | 76 | CHECK FOR KEYBOARD EERROR |
| 0C | INIT.CACHE TO POST | 7C | SETUP HARDWARE INTERRUPT VECTOR |
| 0E | INIT. I/O VALUE | 7E | TEST COPROCESSER IF PRESENT |
| 0F | ENABLE THE L-BUS IDE | 80 | DISABLE ON-BOARD I/O PORT |
| 10 | INIT. POWER MANAGER | 82 | DETECT AND INSTALL EXT.RS232C |
| 11 | LOAD ALTERNATE REG. | 84 | DETECT AND INSTALL EXT.PARALLEL |
| 13 | PCI BUS MASTER RESET | 86 | RE-INIT. ON-BOARD I/O PORT |
| | WITH INITIAL POST VALUE | 88 | INIT. BIOS DATA ROM |
| 14 | INIT. KEYBOARD CONTROLLER | 8A | INIT.EXTENDED BIOS DATA AREA |
| 16 | CHECK CHECKSUM | 8C | INIT. FDD CONTROLLER |
| 18 | 8254 TIMER INIT. | 9A | SHADOW OPTION ROMS |
| 1A | 8237 DMA CONTROLLER INIT. | 9C | SETUP POWER MANAGEMENT |
| 1C | RESET INTERRUPT CONTROLLER | 9E | ENABLE HW INTERRUPT |
| 20 | TEST DRAM REFRESH | A0 | SET TIME OF DAY |
| 22 | TEST 8742 KEYBOARD CONTROLLER | A4 | INIT. TYPEMATIC RATE |
| 24 | SET ES SEGMENT REG. TO 4GB | A8 | ERASE F2 PROMPT |
| 26 | ENABLE A20 | AA | SCAN FOR F2 KEY STROKE |
| 28 | AUTO SIZING DRAM | AC | ENTER SETUP |
| 32 | COMPUTE THE CPU SPEED | AE | CLEAR IN POST FLAG |
| 34 | TESET CMOS RAM | B0 | CHECK FOR ERRORS |
| 38 | SHADOW SYSTEM BIOS ROM | B2 | POST DONE-PREPARE TO BOOT O/S |
| 3A | AUTO SIZING CACHE | B4 | ONE BEEP |
| 3C | CONFIGURE ADVANCED CHIPSET REG. | B6 | CHECK PASSWORD (OPTION) |
| 3D | LOAD ALTER REG. WITH CMOS VALUE | B7 | ACPI INIT |
| 42 | INIT. INTERRUPT VECTOR | BA | DMI INIT |
| 44 | INIT. BIOS INTERRUPT | BE | CLEAR SCREEN |
| 46 | CHECK ROM COPYRIGHT NOTICE | C0 | TRY BOOT WITH INT19 |
| 47 | INIT. I20 SUPPORT IF INSTALLED | D0 | INTERRUPT HANDLER ERROR |
| 48 | CHECK VIDEO CONFIGURE AGAINST CMOS | D2 | UNKNOWN INTERRUPT ERROR |
| 49 | INIT. PCI BUS AND DEVICE | D4 | PENDING INTERRUPT ERROR |
| 4A | INIT. ALL VIDEO BIOS ROM | D6 | SHUTDOWN 5 |
| 4C | SHADOW VIDEO BIOS ROM | D8 | SHUTDOWN ERROR |
| 50 | DISPLAY CPU TYPE AND SPEED | DA | EXTENDED BLOCK MOVE |
| 52 | TEST KEYBOARD | DC | SHUTDOWN 10 |
| 54 | SET KEYCLICK IF ENABLED | 89 | ENABLE NMI |
| 56 | ENABLE KEYBOARD | 90 | INIT. HDD CONTROLLER |
| 58 | TEST FOR UNEXPECTED INTERRUPTS | 91 | INIT. LOCAL BUS HDD CONTROLLER |
| 5A | DISPLAY " PRESS SETUP" | 92 | JUMP TO USER PATCH 2 |
| 5C | TEST RAM BETWEEN 512K AND 640K | 94 | DISABLE A20 ADDRESS LINE |
| 60 | TEST EXTENDED MEMORY | 96 | CLEAR HUGE ES SEGMENT REG. |
| 62 | TEST EXTENDED MEMORY ADDRESS LINE | 98 | SEARCH FOR OPTION ROMS |
| 64 | JUMP TO USER PATCH 1 | | |

DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG
CHECK	HJ KIM	DEV. STEP	MP	MAIN	BA41-00791A	ELECTRONICS
APPROVAL	SJ PARK	REV	1.0	SPI ROM & DEBUG PORT		
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	24	OF 47

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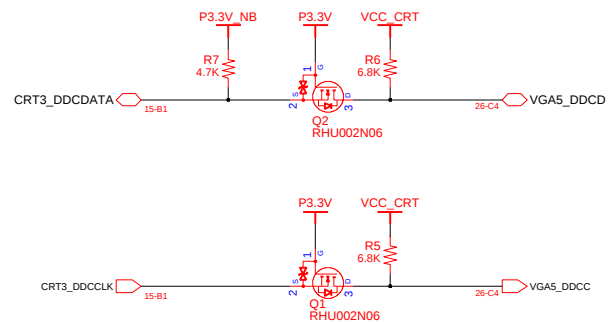
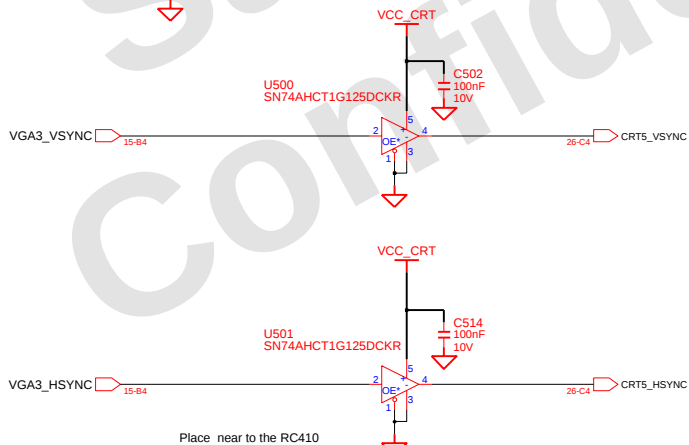
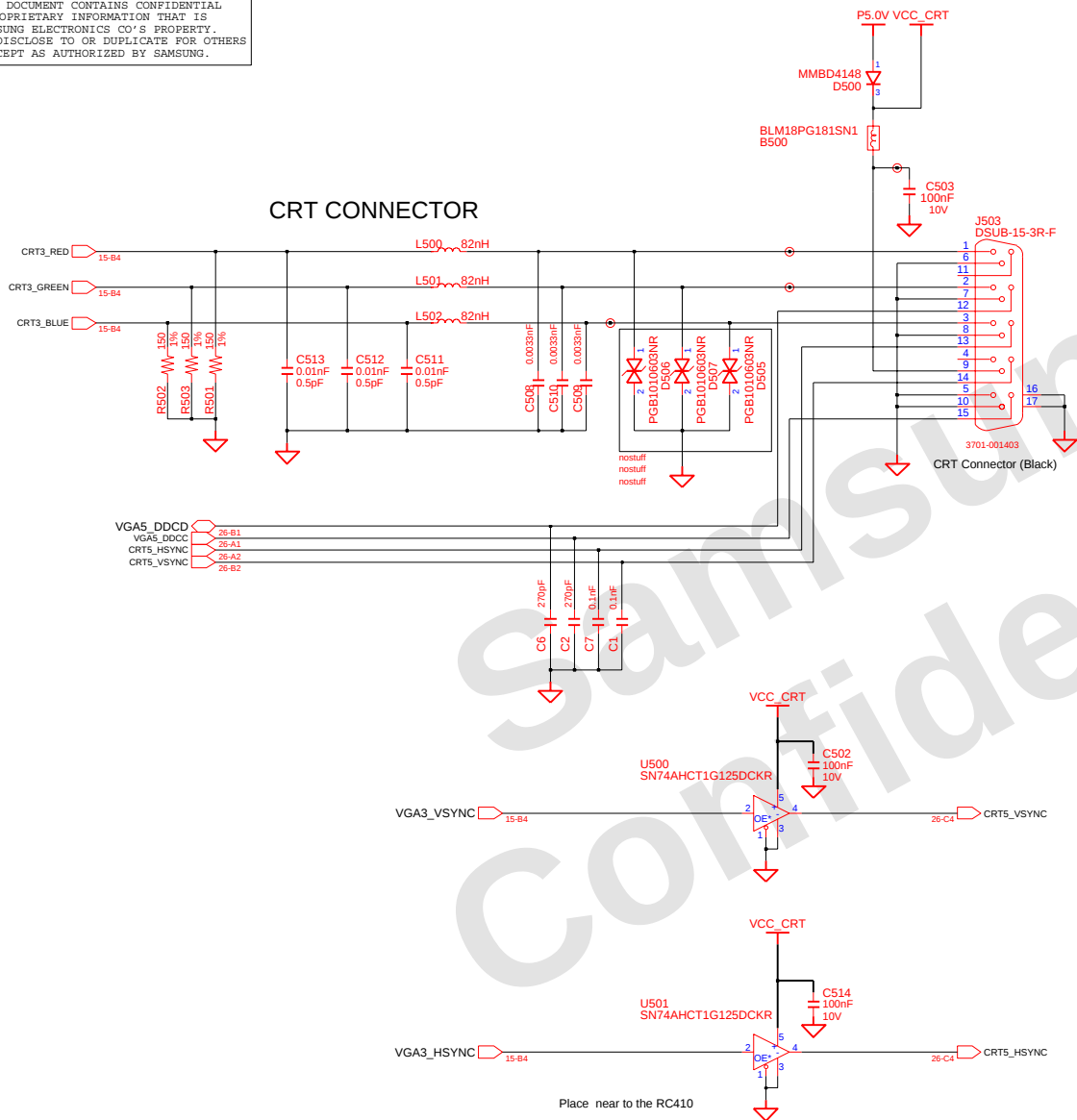


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CHECK	HJ KIM	DEV. STEP	MP		LCD Connector & SPREAD SPECTRUM	
APPROVAL	SJ PARK	REV	1.0			
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	25 OF 47	

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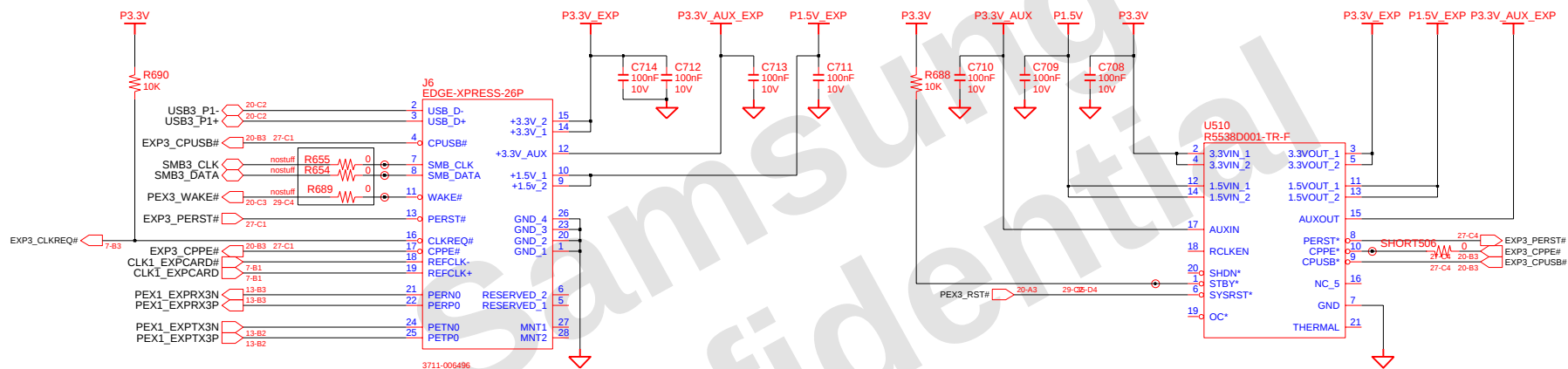
CRT CONNECTOR



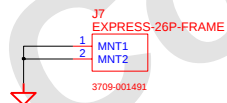
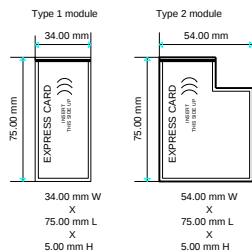
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CHECK	HJ KIM	DEV. STEP	MP			ELECTRONICS
APPROVAL	SJ PARK	REV	1.0		CRT	PART NO. BA41-00791A
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	26	OF 47

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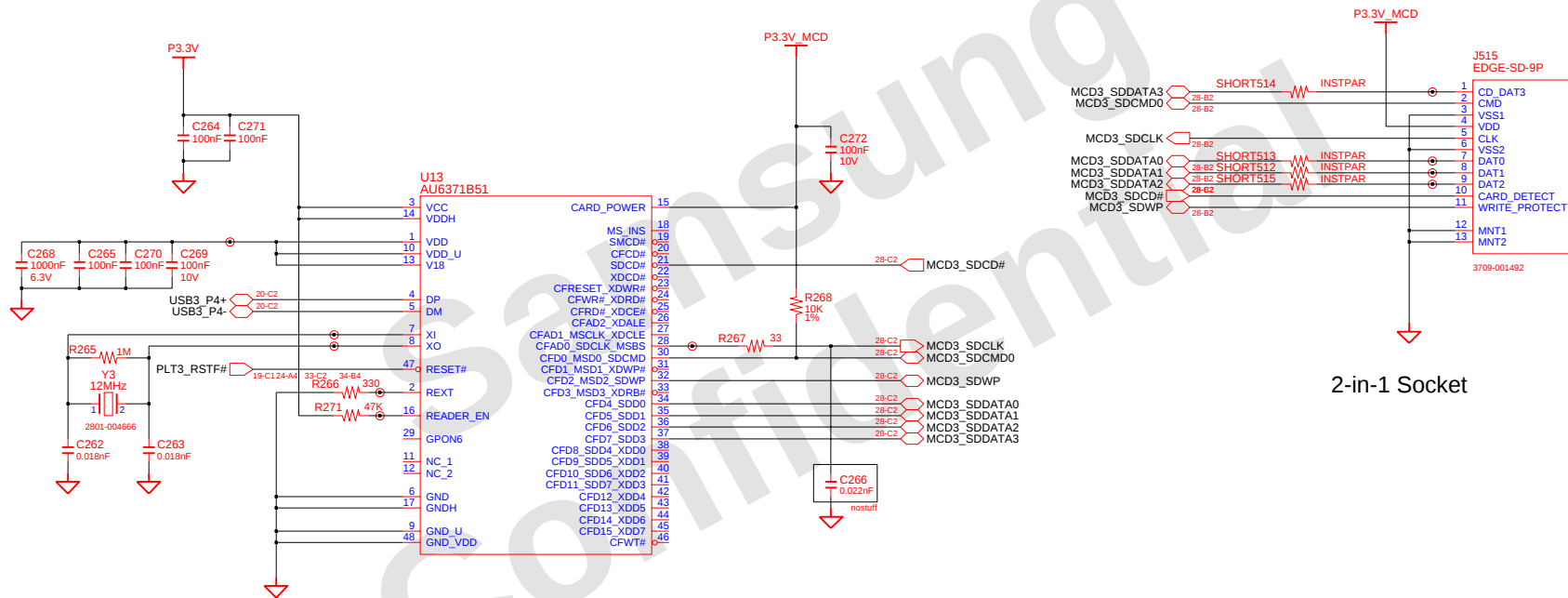


EXPRESS CARD



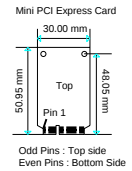
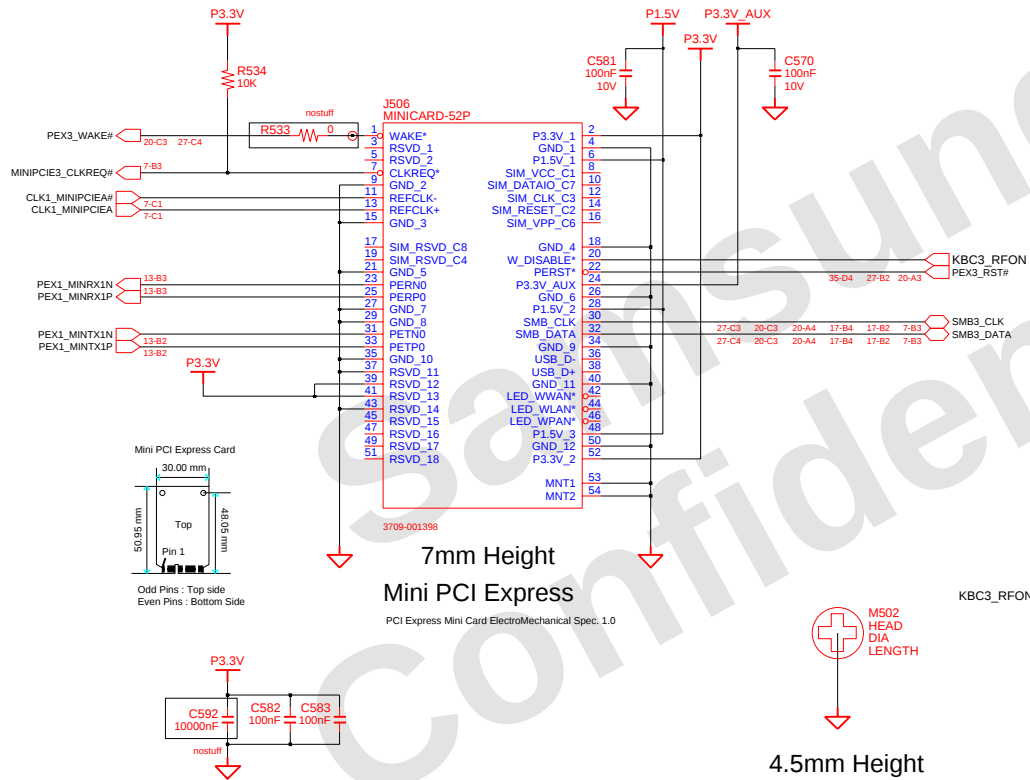
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CHECK	HJ KIM	DEV. STEP	MP			
APPROVAL	SJ PARK	REV	1.0		EXPRESS CARD	
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	27 OF 47	

2 IN 1 CARD



2-in-1 Socket

DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG
CHECK	HJ KIM	DEV. STEP	MP			ELECTRONICS
APPROVAL	SJ PARK	REV	1.0		2 in 1 Socket	PART NO.
MODULE CODE		LAST EDIT	July 2, 2007 11:28:38 PM			BA1A-00791A
					PAGE	28 OF 47



7mm Height
Mini PCI Express
PCI Express Mini Card ElectroMechanical Spec. 1.0

4.5mm Height
For MiniCard

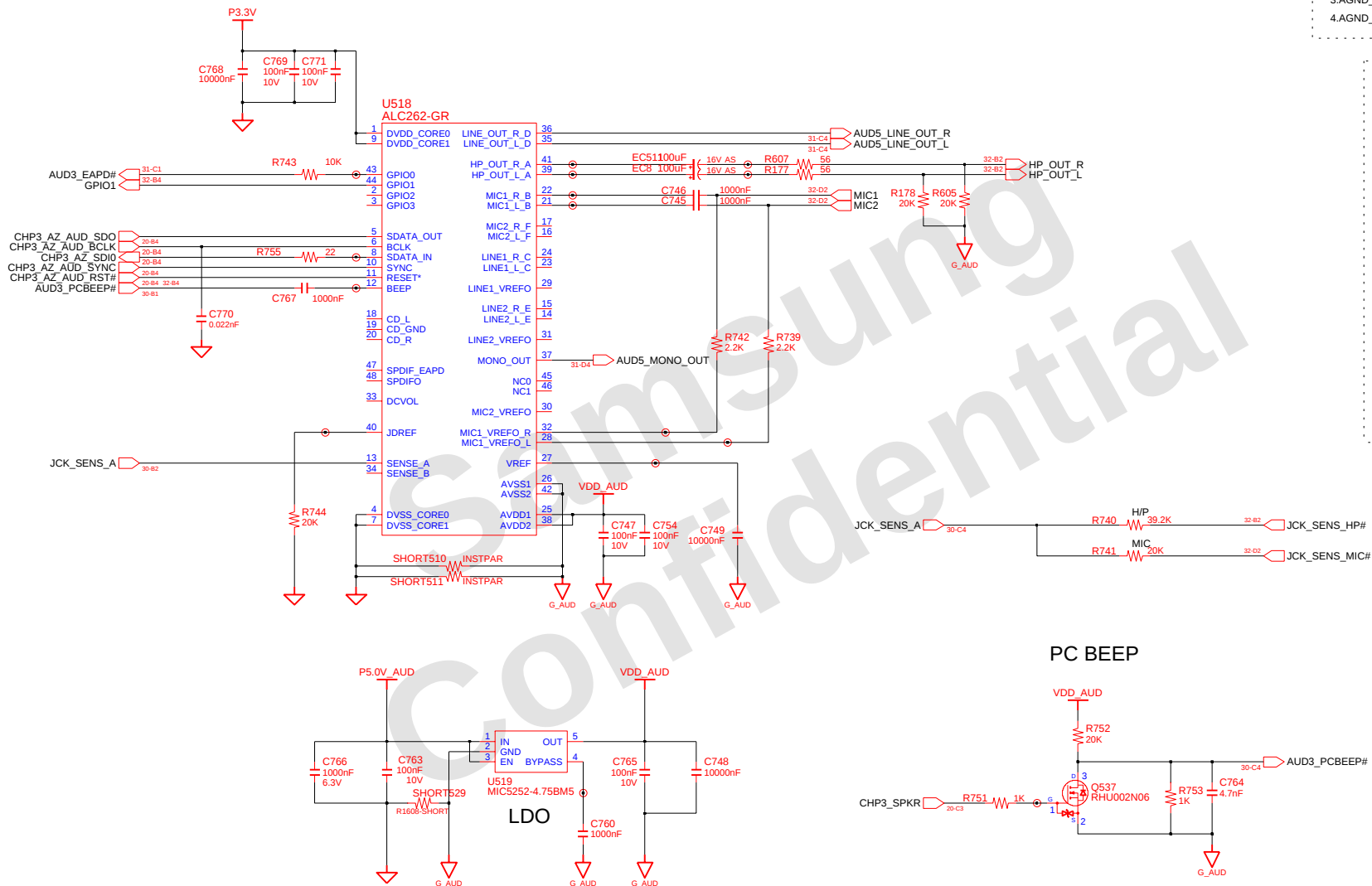
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CHECK	HJ KIM	DEV. STEP	MP		MAIN	
APPROVAL	SJ PARK	REV	1.0		MINI CARD	
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	29 OF 47	

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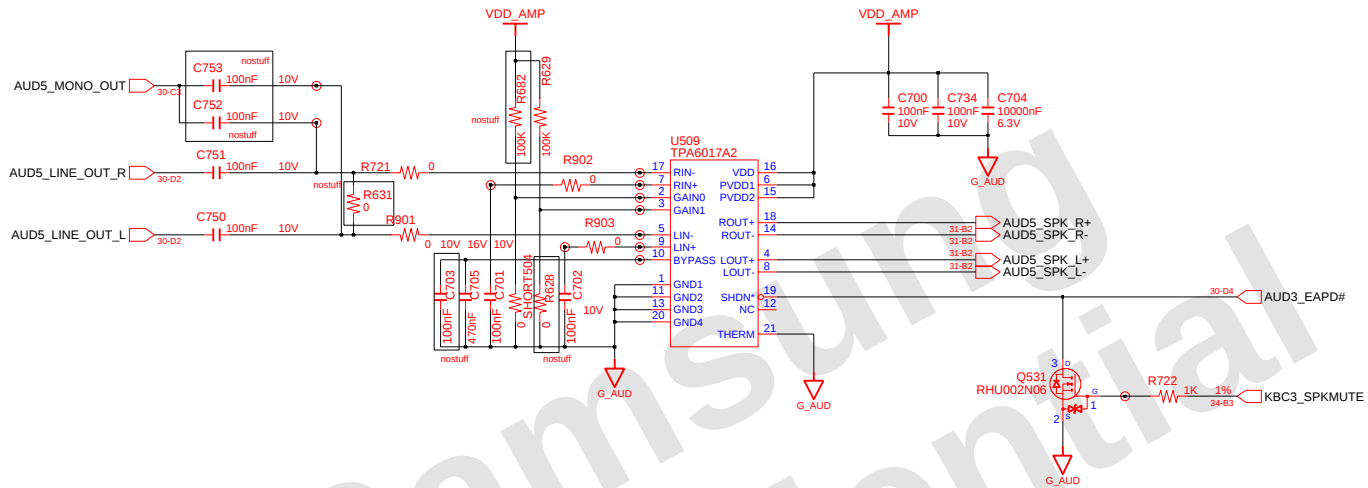
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- 1.AGND_AUD IS AUDIO GROUND
2. GND IS DIGITAL GROUND
- 3.AGND_MIC IS MIC GROUND
- 4.AGND_CHS IS CHASS GROUND

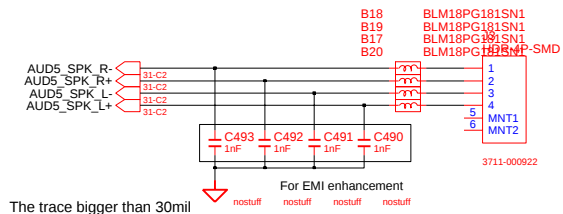
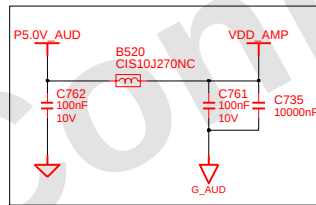
ALL TYPE IS 1608



DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP	MAIN	MAIN	
APPROVAL	SJ PARK	REV	1.0	AUDIO CODEC	PART NO.	BA41-00791A
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	30	OF 47



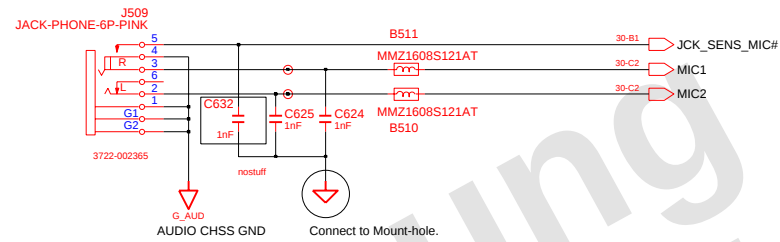
AMP_VDD INTERNAL STEREO SPEAKERS



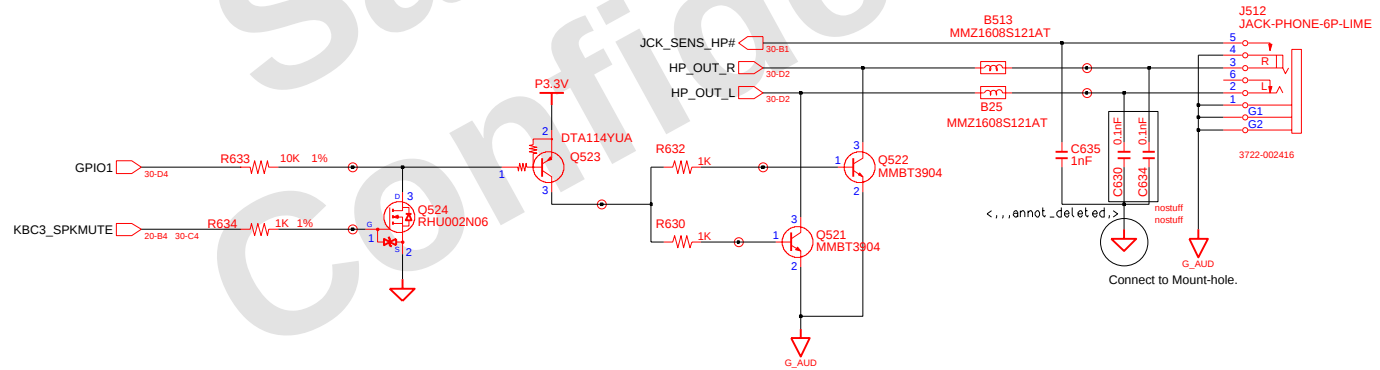
The trace bigger than 30mil

DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG
CHECK	HJ KIM	DEV. STEP	MP		MAIN	ELECTRONICS
APPROVAL	SJ PARK	REV	1.0		LIMITER & AMP	PART NO.
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM			BA41-00791A
				PAGE	31	OF 47

MIC JACK



HEADPHONE

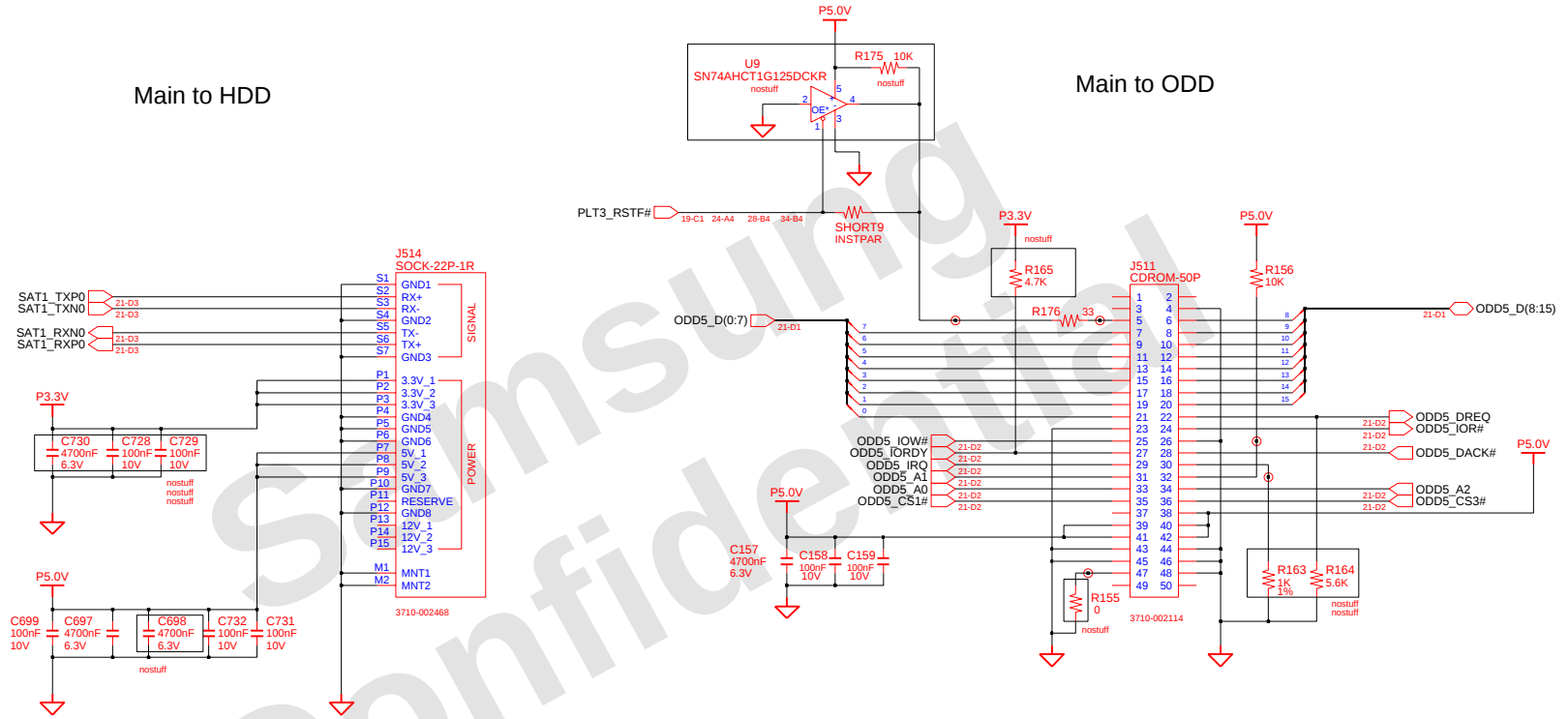


The traces led to Audio Jacks have the width over 10mil

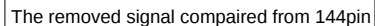
DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG
CHECK	HJ KIM	DEV. STEP	MP		MAIN	ELECTRONICS
APPROVAL	SJ PARK	REV	1.0		MIC & HEADPHONE	PART NO. BA41-00791A
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	32	OF 47

Main to HDD

Main to ODD



DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG
CHECK	HJ KIM	DEV. STEP	MP		POWER	ELECTRONICS
APPROVAL	SJ PARK	REV	1.0		HDD & ODD	PART NO. BA41-00791A
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	33	OF 47



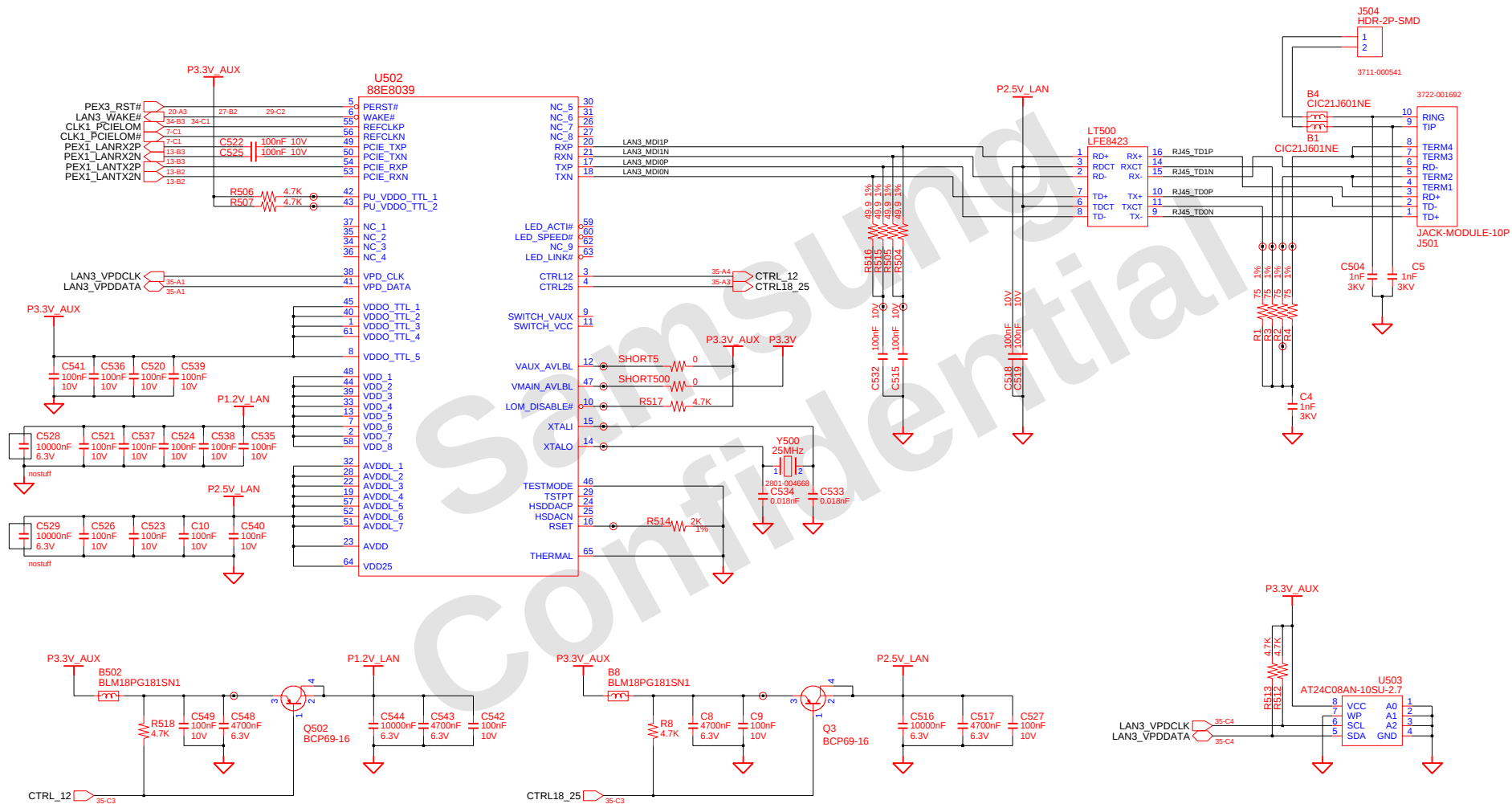
Condition: P90=P91=P92=High(MICOM_P3V)
MD0=MD1=Low(0V)
Serial Port: P84 & P85

KBC5_CAL_THRM*
THRM_ALERT*
LCD3_BKLTEN
FAN3_FDBACK*
THERM_STP*

IRAW	TERM1	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG ELECTRONICS	
CHECK	HJ KIM	DEV. STEP	MP				POWER
APPROVAL	SJ PARK	REV	1.0				MICOM
MODULE CODE	undefined	LAST EDIT					July 2, 2007 11:28:38 PM

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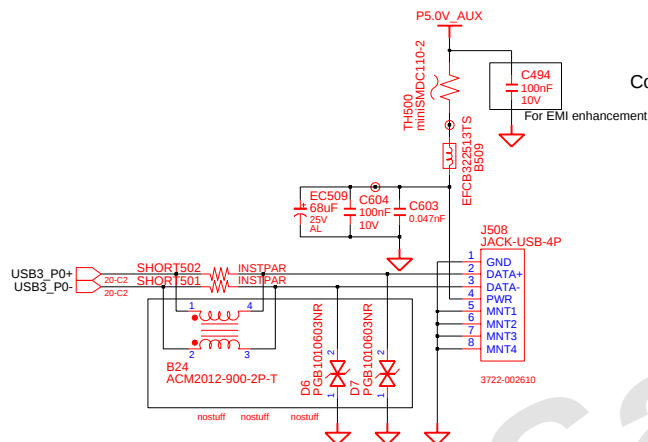


DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG
CHECK	HJ KIM	DEV. STEP	MP		MAIN	ELECTRONICS
APPROVAL	SJ PARK	REV	1.0		LAN	
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM			PART NO. BA41-00791A
						PAGE 35 OF 47

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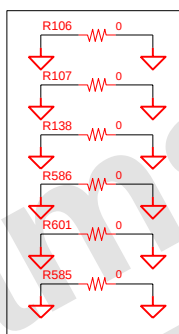
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Side USB Connector



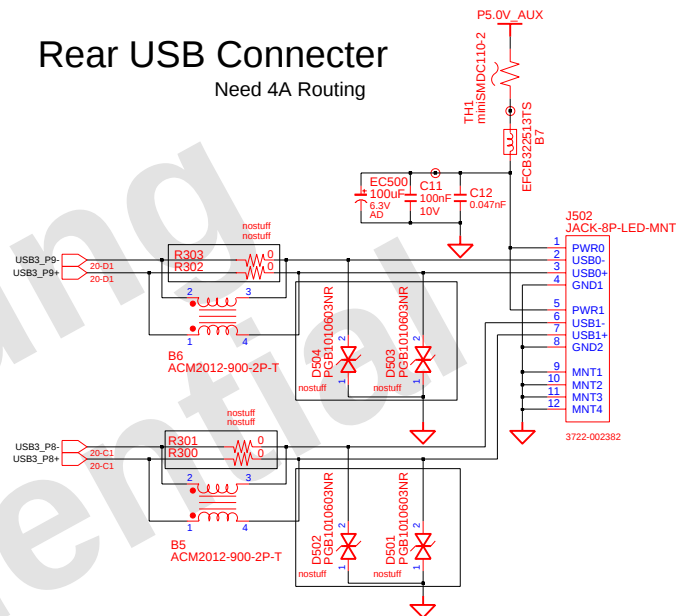
Connect left side USB GND with CPU GND

Top : 3EA Bottom : 3EA

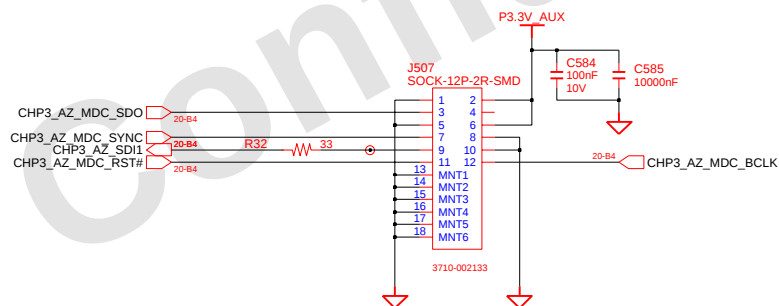


Rear USB Connector

Need 4A Routing



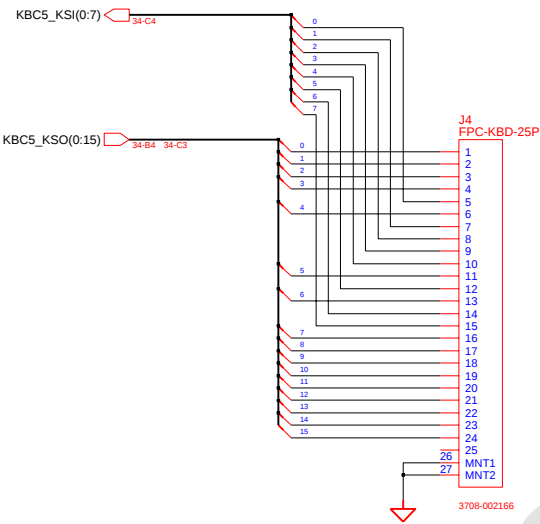
MDC Connector



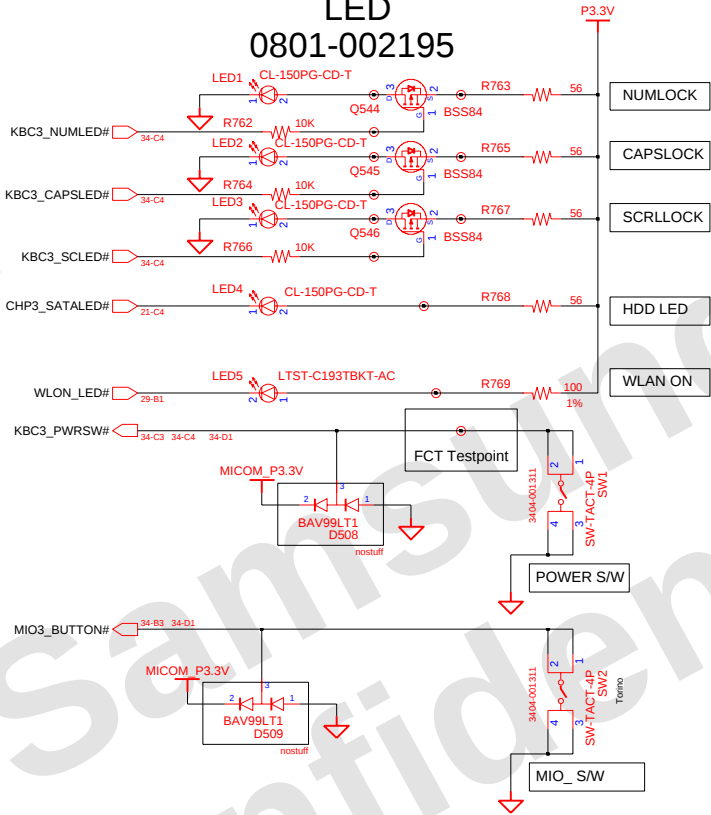
DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP	MAIN	MAIN	
APPROVAL	SJ PARK	REV	1.0	USB PORT & MDC Conn.	PART NO.	BA41-00791A
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	36	OF 47

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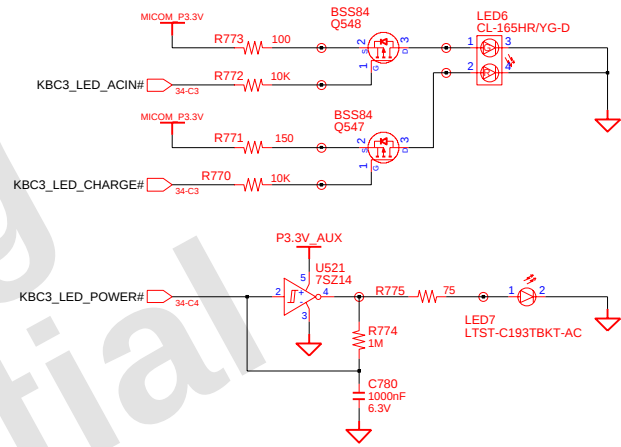
KEYBOARD



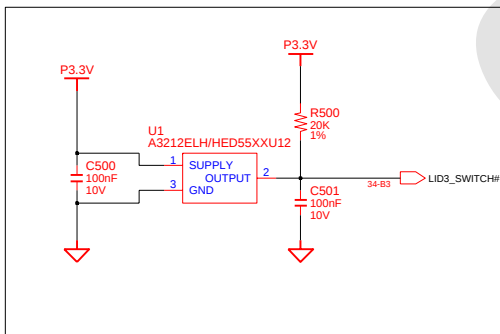
LED 0801-002195



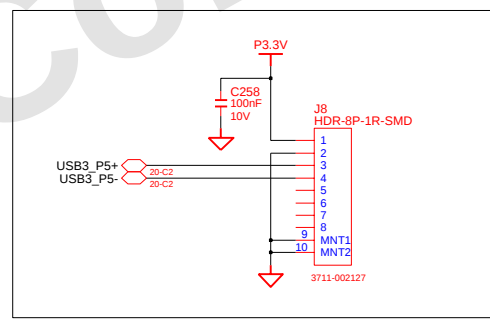
ADAPTERIN/CHARGING LED



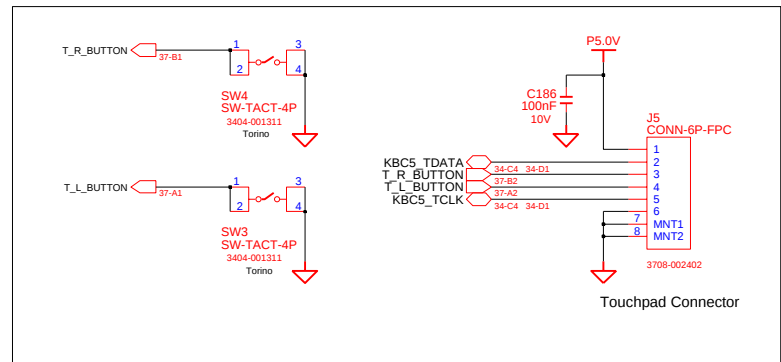
LID SWITCH



Bluetooth Interface Factory Option

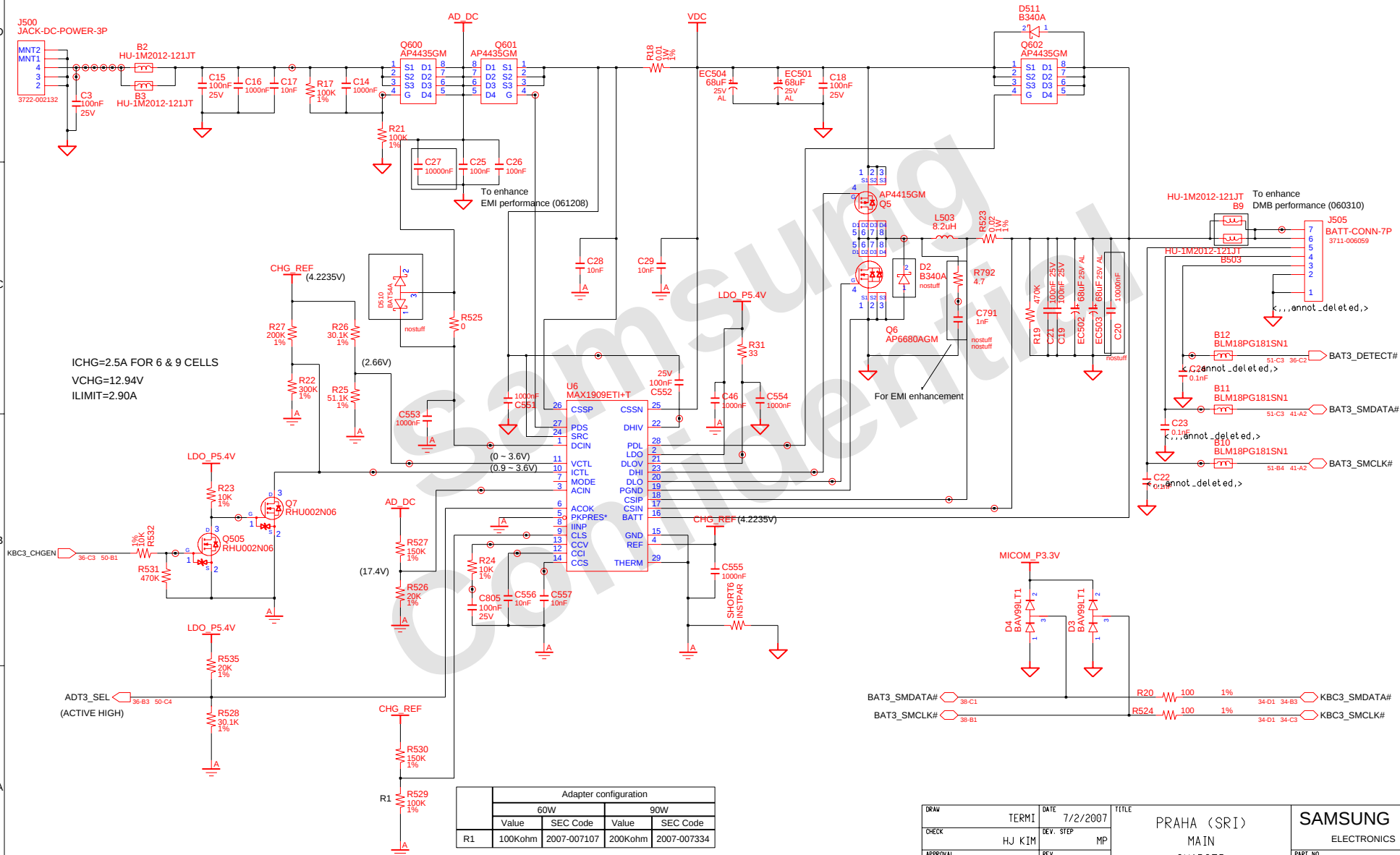


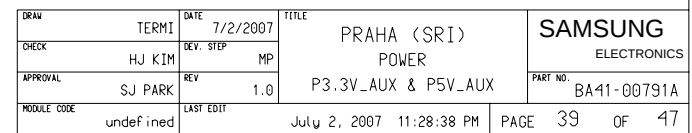
TOUCHPAD



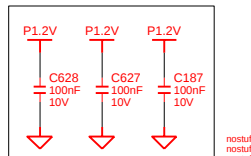
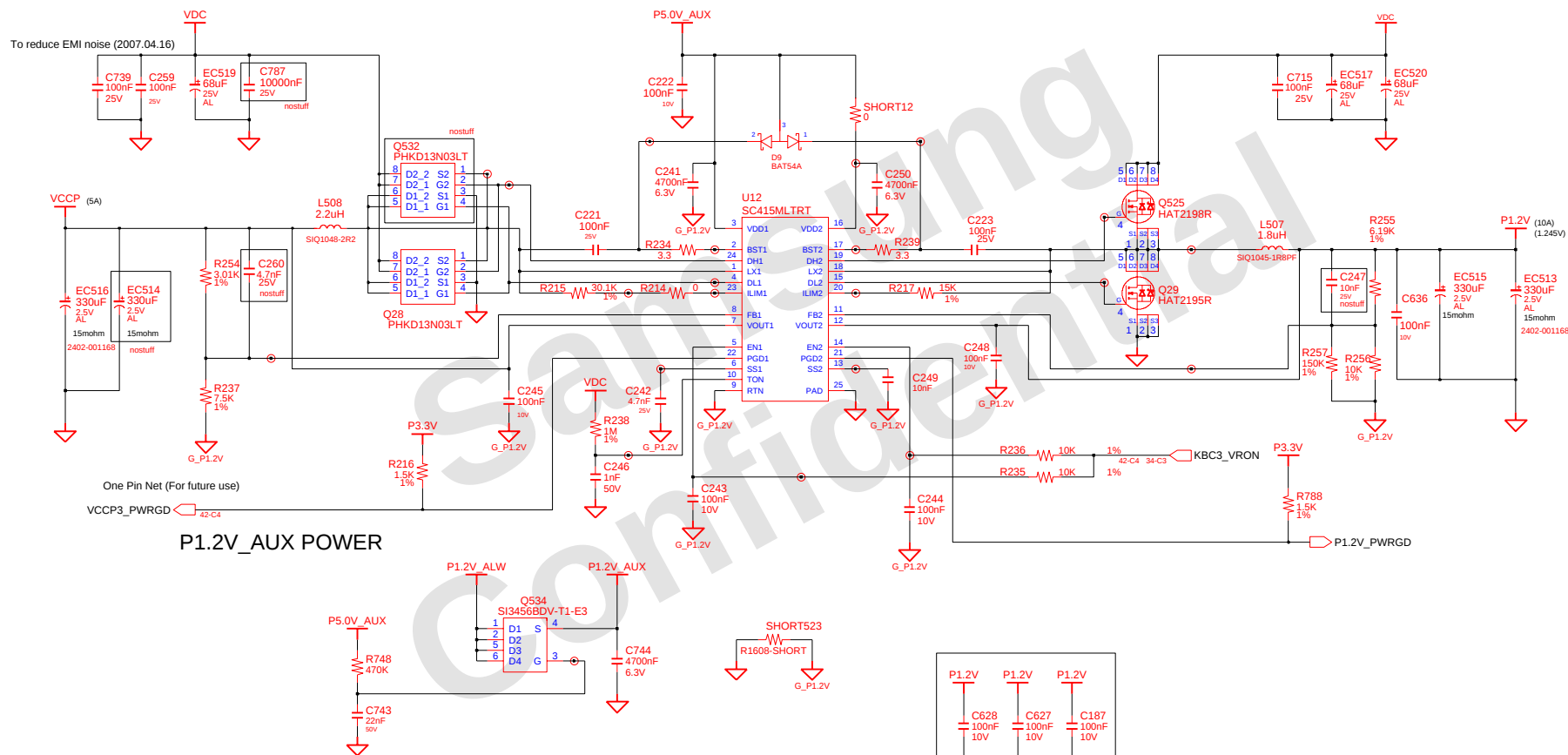
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CHECK	HJ KIM	DEV. STEP	MP	LED & BLUETOOTH		ELECTRONICS
APPROVAL	SJ PARK	REV	1.0	TOUCHPAD & KBD & LID S/W	PART NO.	BA41-00791A
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	37	OF 47

CHARGER & POWER MANAGEMENT





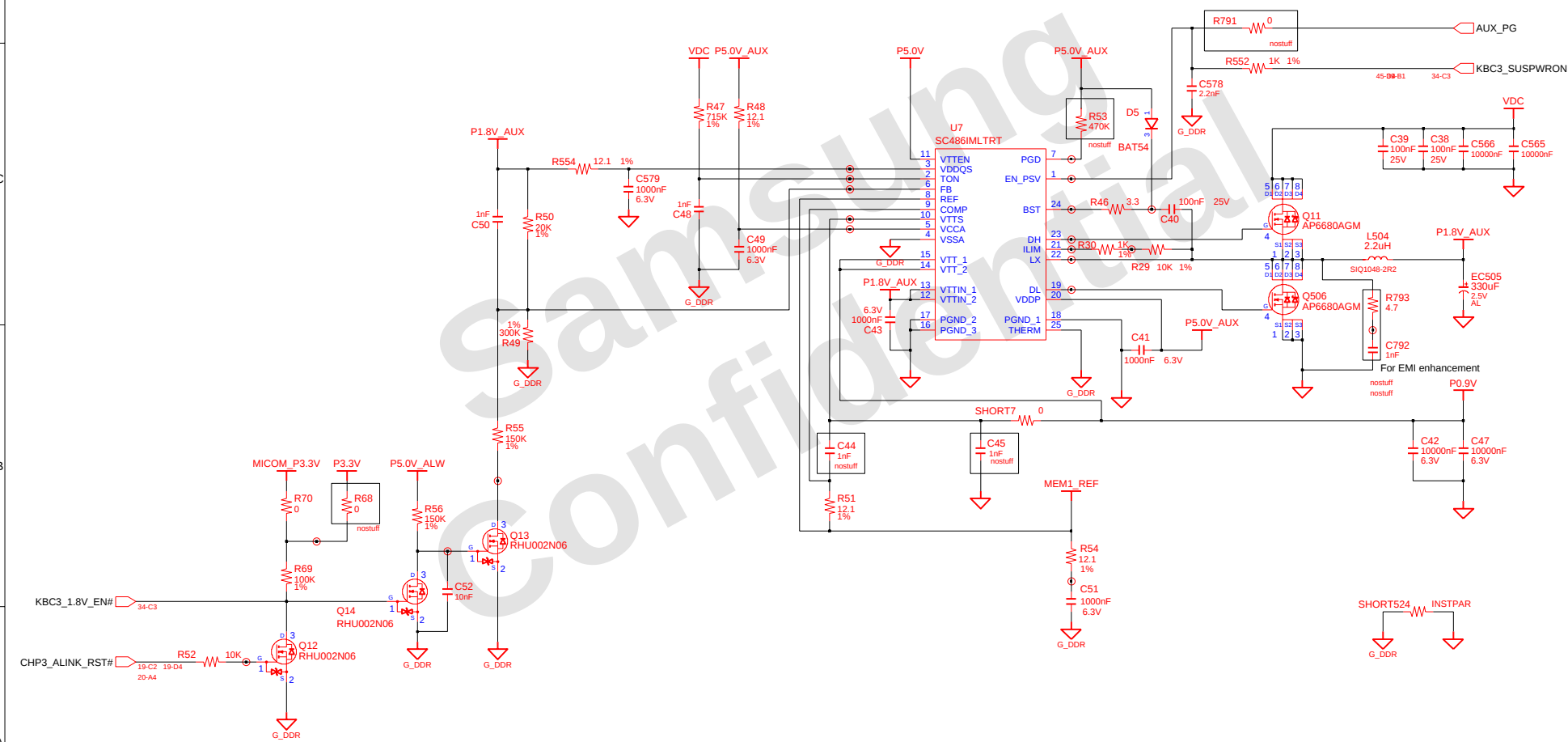
P1.2V & VCCP_CORE(1.05V)



Add to reduce EMI noise (2007.03.23)

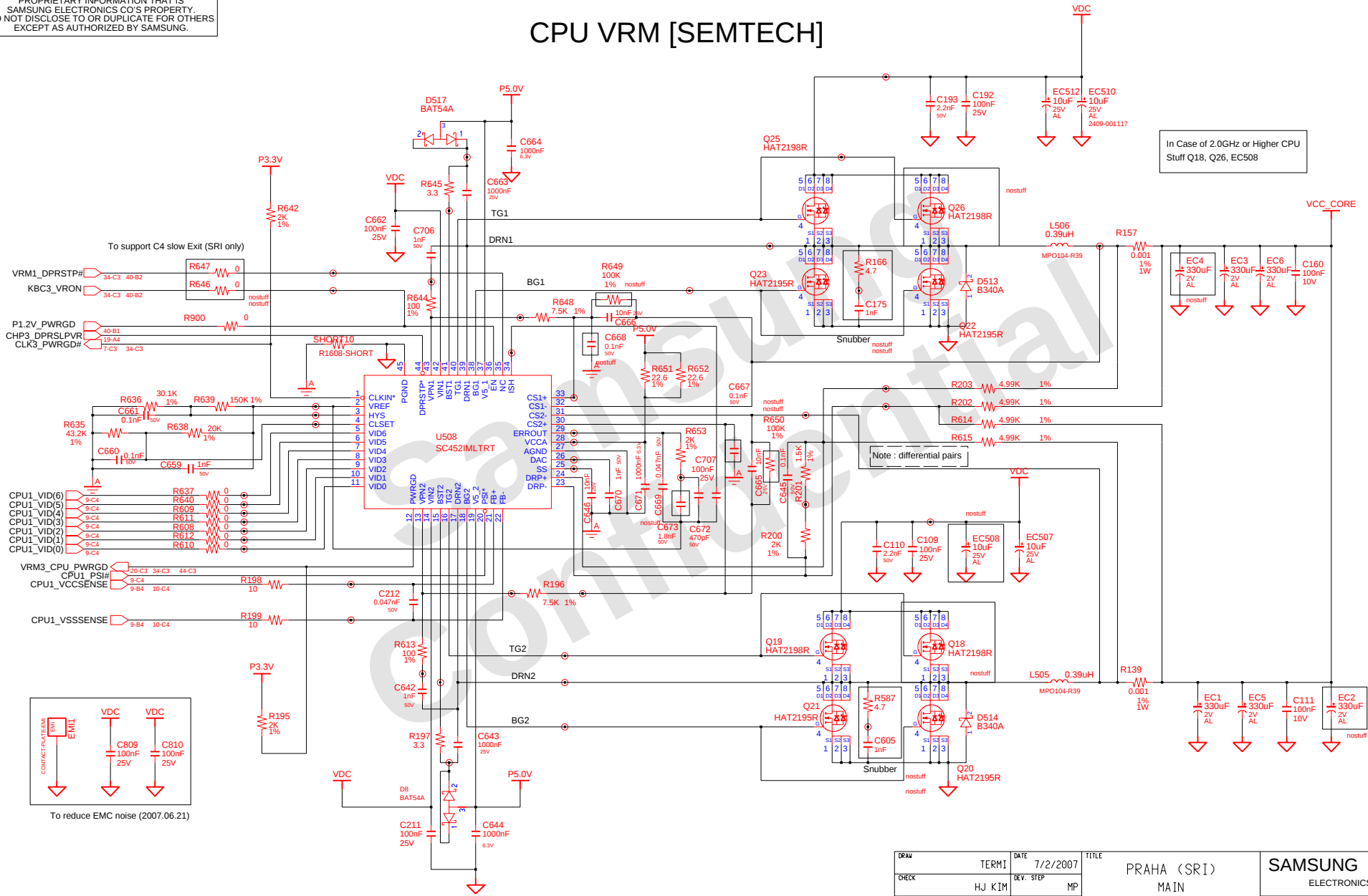
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CHECK	HJ KIM	DEV. STEP	MP	POWER		ELECTRONICS
APPROVAL	SJ PARK	REV	1.0	P1.2V & P1.2V-AUX & VCCP	PART NO.	BA41-00791A
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	40	OF 47

DDR2 Power



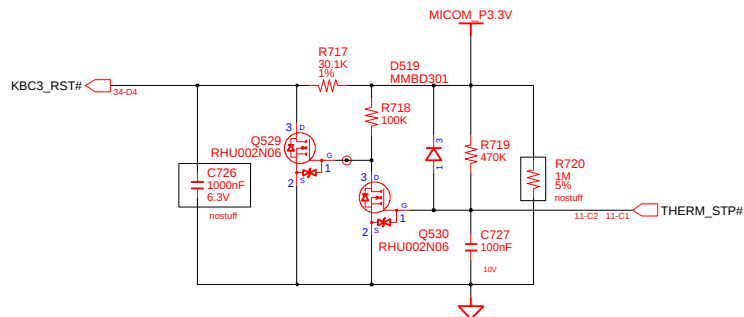
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CHECK	HJ KIM	DEV. STEP	MP		MAIN	ELECTRONICS
APPROVAL	SJ PARK	REV	1.0		DDR2 POWER	PART NO.
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM			BA41-00791A
				PAGE	41	OF 47

CPU VRM [SEMTECH]

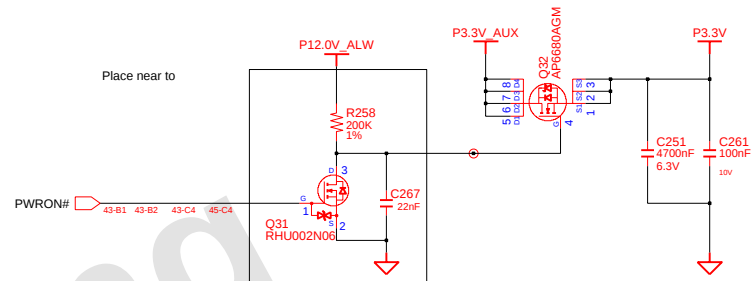


DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG
CHECK	HJ KIM	DEV. STEP	MP		MAIN	ELECTRONICS
APPROVAL	SJ PARK	REV	1.0		CPU VRM	PART NO.
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM			BA41-00791A
			PAGE	42	OF	47

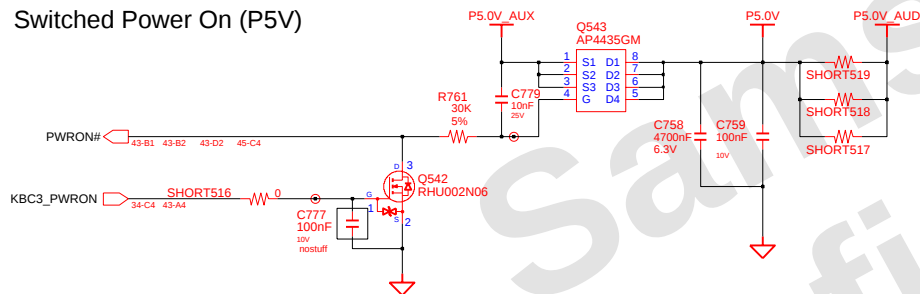
MICOM RESET



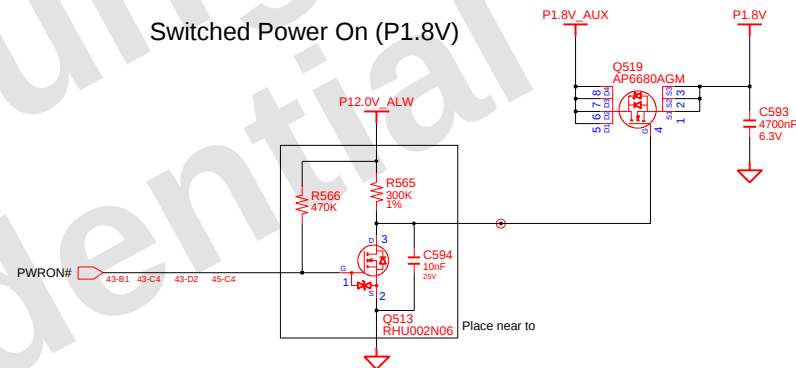
Switched Power On (P3.3V)



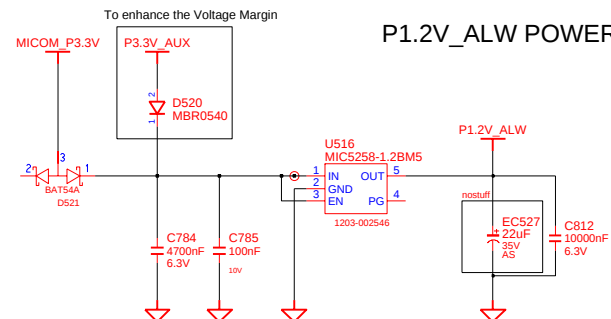
Switched Power On (P5V)



Switched Power On (P1.8V)

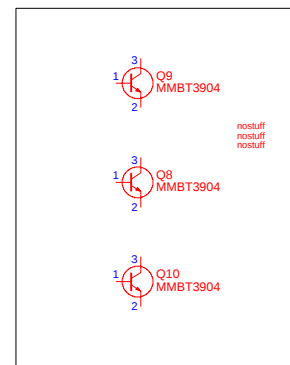


P1.2V_ALW POWER

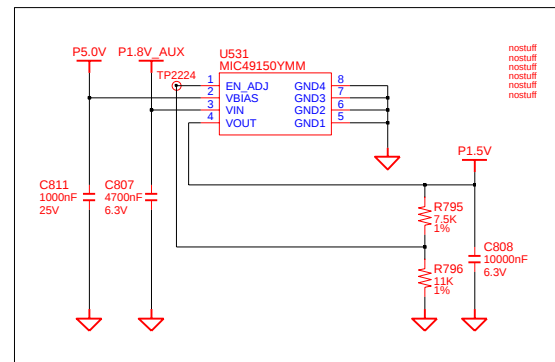


DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG
CHECK	HJ KIM	DEV. STEP	MP		MAIN	ELECTRONICS
APPROVAL	SJ PARK	REV	1.0		MICOM & SWITCHED POWER	PART NO. BA41-00791A
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	43	OF 47

For Debugging

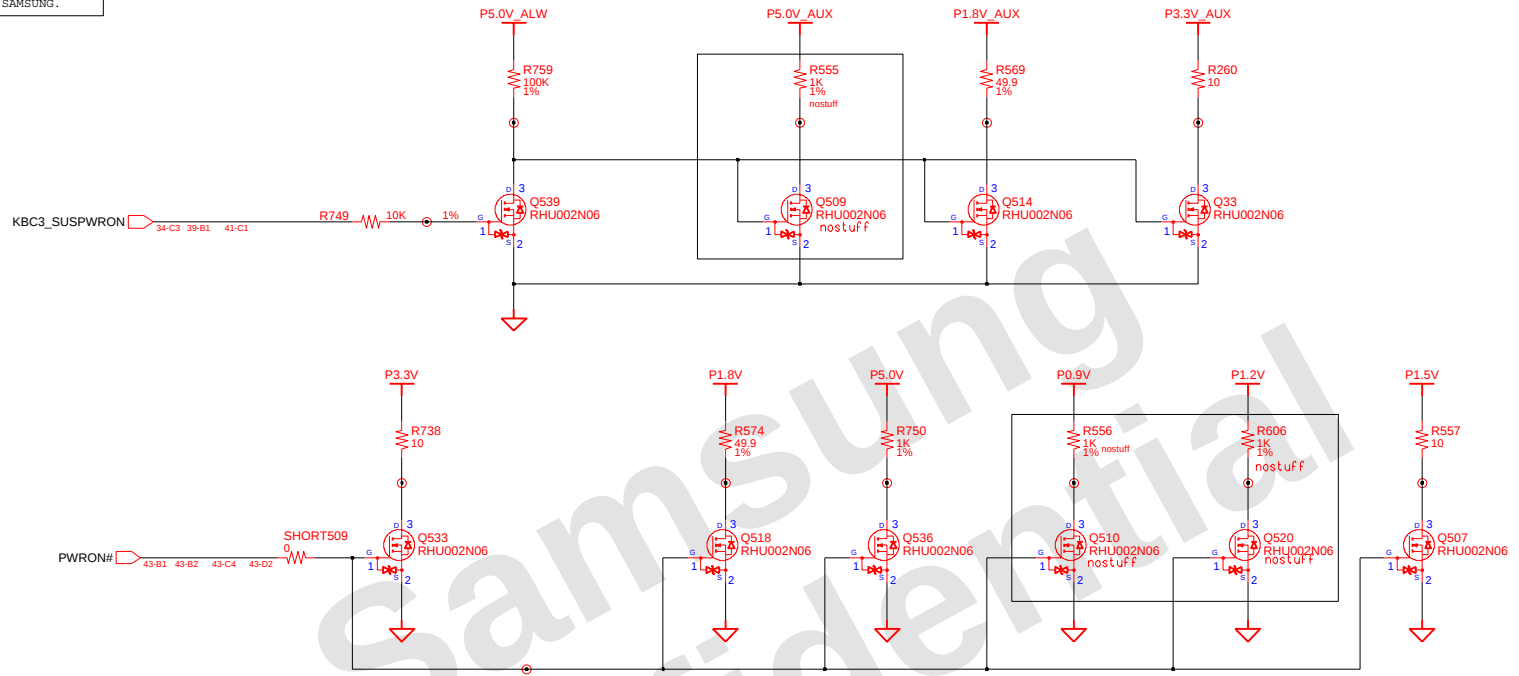


To make up PCI Express 1.5V rail current margin (nostuff)

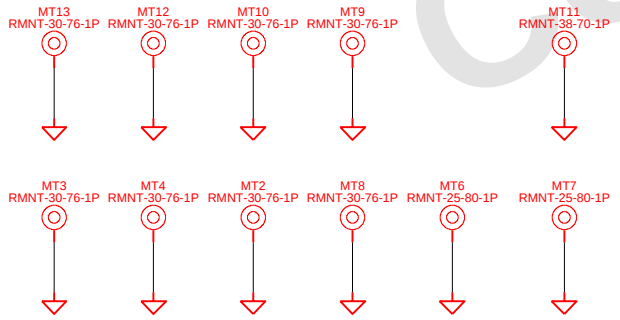


ORAW	TERM1	DATE	7/2/2007	TITLE		PRAHA (SRI)		SAMSUNG	
CHECK	HJ KIM	DEV. STEP	MP					ELECTRONICS	
APPROVAL	SJ PARK	REV	1.0	ICT PORT		PART NO.		BA41-00791A	
MODULE CODE		undefined		LAST EDIT		July 2, 2007 11:28:38 PM		PAGE	44 OF 47

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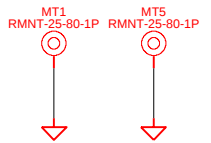


System



Board

Located in lower left corner of PCB



DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI) MAINBD POWER DRAW & MNT HOLE	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP			PART NO. BA41-00791A
APPROVAL	SJ PARK	REV	1.0			
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	45	OF 47

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REV1
1 O
2 O O3

PCB REVISION CONTROL (ICT)				
NO	CONNECTION	DATE(YY/MM/DD)	REVISION	STEP
1	N.C.			
2	1-2			
3	2-3			
4	3-1			
5	1-2-3			
6	N.C.			
7	1-2			
8	2-3			
9	3-1			
10	1-2-3			

DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG ELECTRONICS
CHECK	HJ KIM	DEV. STEP	MP			
APPROVAL	SJ PARK	REV	1.0	TP	PART NO. BA41-00791A	
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE 46	OF 47	

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○AC_SDOUT
○ADT3_SEL
○AUD3_EAPD#
○AUD3_PCBEEP#
○AUD5_LINE_OUT_L
○AUD5_LINE_OUT_R
○AUD5_MONO_OUT
○AUD5_SPK_L+
○AUD5_SPK_L-
○AUD5_SPK_R+
○AUD5_SPK_R-
○AUX_PG
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○BAT3_SMDATA#
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○CHP3_AZ_AUD_BCLK
○CHP3_AZ_AUD_RST#
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○CHP3_AZ_AUD_SYNC
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○CHP3_AZ_MDC_RST#
○CHP3_AZ_MDC_SDO
○CHP3_AZ_MDC_SYNC
○CHP3_AZ_SDI0
○CHP3_AZ_SDI1
○CHP3_BIOSWP#
○CHP3_DPRSPLPVR
○CHP3_NBRST#
○CHP3_SATALED#
○CHP3_SBPME#
○CHP3_SBTMRTRIP#
○CHP3_SERIRQ
○CHP3_SLPS3#
○CHP3_SLPS5#
○CHP3_SPKR
○CHP3_SUSSTAT#
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○CPU1_ADS#

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○CPU1_BPRI#
○CPU1_BREQ#
○CPU1_BSEL0
○CPU1_BSEL1
○CPU1_BSEL2
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○CLK3_NB14M
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○CLK3_PWRGD#
○CLK3_USB48

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○CPU1_DPSLP#
○CPU1_DPWR#
○CPU1_DRDY#

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○CPU1_INTR
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○CPU1_PSI#
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○CPU1_TRST#
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○CRT3_DDCCLK
○CRT3_DDCDATA
○CRT3_GREEN
○CRT3_RED
○CRT5_HSYNC
○CRT5_VSYNC
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○CTRL12
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○EXP3_CPEP#

○EXP3_CPUSB#
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○FANS_VDD
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○HP_OUT_R
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○JCK_SENS_MIC#
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○KBC3_LED_POWER#
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○LAN3_WAKE#

○LCD3_BKLCTRL
○LCD3_BKLTON

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○LCD3_EDID_DATA
○LCD3_VDDEN
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○LPC3_LAD(3)
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○MCD3_SDCMD0
○MCD3_SDDATA0
○MCD3_SDDATA1
○MCD3_SDDATA2
○MCD3_SDDATA3
○MCD3_SOWP

○MIC1
○MIC2
○MINIPCIE3_CLKREQ#
○MIO3_BUTTON#

DRAW	TERMI	DATE	7/2/2007	TITLE	PRAHA (SRI)	SAMSUNG
CHECK	HJ KIM	DEV. STEP	MP			ELECTRONICS
APPROVAL	SJ PARK	REV	1.0			PART NO. BA41-00791A
MODULE CODE	undefined	LAST EDIT	July 2, 2007 11:28:38 PM	PAGE	47	OF 47

☐ 00DD5_A0
☐ 00DD5_A1
☐ 00DD5_A2
☐ 00DD5_CS1#
☐ 00DD5_CS3#
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☐ 00DD5_I0R#
☐ 00DD5_I0RDY
☐ 00DD5_I0W#
☐ 00DD5_I0Q
☐ PC13_CLKRUN#

	○CHG_REF	○P12_0V_ALW	○VDC ○VDDOAMP
○PEX3_RST# ○PEX3_RST#_CTRL ○PEX3_WAKE# ○PEX3_STF# ○PWON#	○GROUND ○GROUND ○GROUND ○GROUNDnot_deleted ○G_AUD ○GROUNDnot_deleted ○GROUND ○GROUND ○GROUNDnot_deleted ○GROUND ○GROUND ○GROUNDnot_deleted ○GROUND ○GROUND	○GROUNDnot_deleted> ○GROUNDnot_deleted> ○P2_5V_LAN ○P3_3V ○GROUNDnot_deleted> ○P3_3V_AUX ○P3_3V_EXP	○VDDO_AUD
○RTC_CLK	○G_DDR ○G_P1.2V		
○SC486_COMP ○SC486_EN_PSV			
○SMB3_CLK ○SMB3_DATA ○SPI3_CLK ○SPI3_CS# ○SPI3_MISO ○SPI3_MOSI ○STRAP_BIOSROM0 ○STRAP_BIOSROM1 ○STRAP_USB48 ○THERM3_ALERT# ○THERM_STP# ○T_L_BUTTON ○T_R_BUTTON	○G_P3_3V ○INV_VDC ○LCD_VDD3V ○LDO_P5_4V	○P3_3V_MCD ○P3_3V_NB ○P5_0V ○P5_0V_ALW ○P5_0V_AUX	
	○MEM1_REF		
	○MICOM_P3_3V		
	○P0_9V		
○P1_2V_PWRGD ○VCCP3_PWRGD ○VGA3_HSYNC ○VGA3_VSYNC ○VGA5_DDCD ○VGA5-DDCD ○VRM1_DPRSTP# ○VRM3_CPU_PWRGD ○WLON_LED# ○AD_DC	○P1.2V ○P1.2V_ALW ○P1.2V_AUX ○P1.2V_LAN ○P1.5V ○P1.5V_EXP ○P1_8V ○P1_8V ○P1_8V ○P1_8V_AUX	○PCIE_VDDR ○PLL_VDD18 ○PRTC_BAT ○V5F_ILT ○VCCP ○VCC_CORE ○VCC_CRT	○C799 : 0.1µF noStuff ○C803 : 0.1µF noStuff
○AGND_CHG			
○AVDDCK_1.2V			
○AVDDCK_3.3V			
○AVDDQ ○CCND			

- VDC
- VDD_AMP

○VDD_AUD

○ P3.3V_AUX_EXP
○ P3.3V_EXP

○P3.3V_MCD

P3.3V NB

P5.0V

P5.0V A1W

P5.0V AUD

P5.0V AUX

○PG1F VDDR

○ PLL VDD18

OPRIC RAT

QV5F II T

OVCCP

OVCC CORE

VCC CRT

The diagram shows a 74VHC00 NAND gate with the following pin connections and component values:

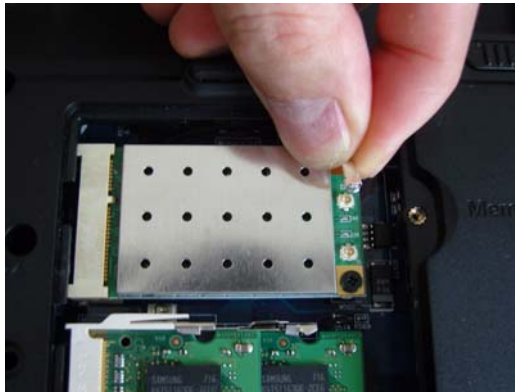
- Pin 1: Connected to ground (GND) via a 0.1μF capacitor (C799).
- Pin 2: Connected to input A via a 0.01nF capacitor (C31).
- Pin 3: Connected to input B via a 0.018μF capacitor (C32).
- Pin 4: Connected to ground (GND) via a 0.022μF capacitor (C30).
- Pin 5: Connected to ground (GND) via a 0.027μF capacitor (C800).
- Pin 6: Connected to input C via a 0.047μF capacitor (C798).
- Pin 7: Connected to ground (GND) via a 0.0033μF capacitor (C797).

[illegible]

4. Assembly and Disassembly

Area	Picture	Description
Main System		1. AC adapter and battery have to be disassembled before disassembling system. 2. Separate battery to point 2 direction after ove KNOB to point 1.
		3. Battery will be dissembled when push lightly upper side.
		4. Remove screws on bottom side. - M2.6 L8 : 16pcs - M2 L7 : 2pcs - M2 L4 : 3pcs
		5. Remove HDD door. 6. Remove Memory door. 7. Remove ODD.

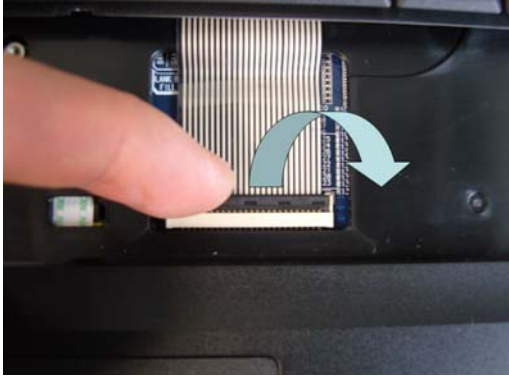
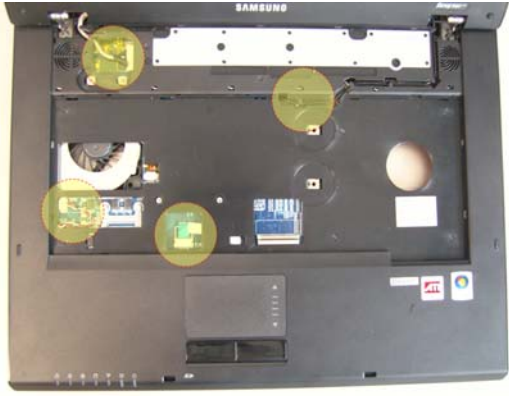
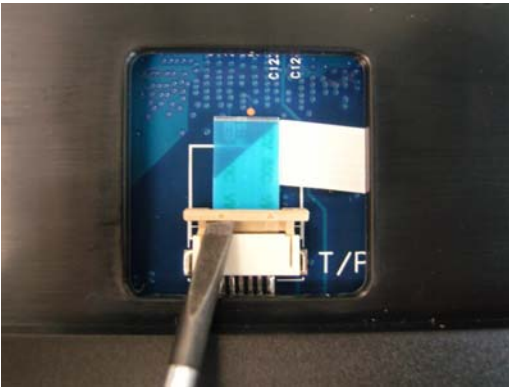
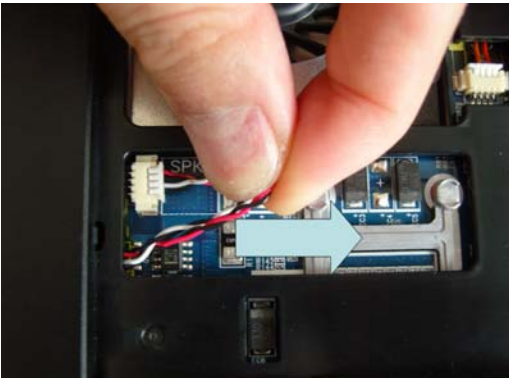
4. Assembly and Disassembly

Area	Picture	Description
Main System		8. Pull out to arrow side gripping handle to separate HDD from system. * Caution - Be careful when push the HDD to the rear side. HDD must be removed before turning upside down the system.
		9. Remove Wireless LAN card after disassembling Wireless LAN Antenna. - M2 L4 : 1pcs * Caution - PRAHA have only one Wireless Antenna.
		10. Lift up Memory module by doing like point 1 and pull out module from socket.
		11. Remove screw of ODD side. - M2 L3 : 1pcs

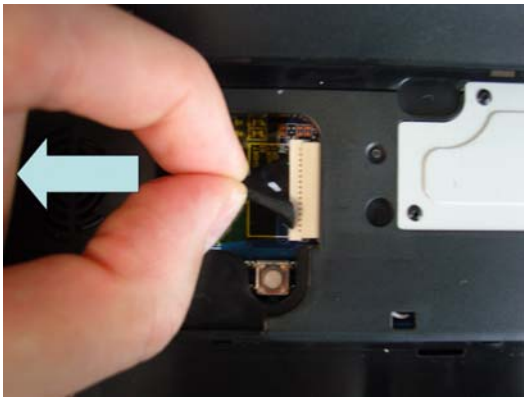
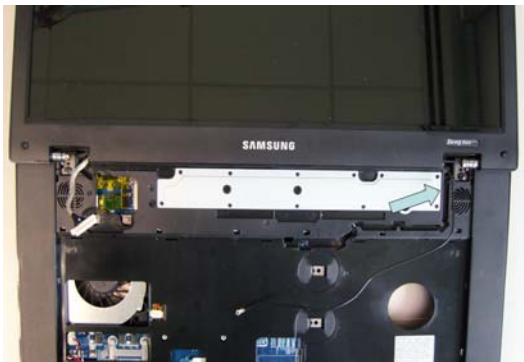
4. Assembly and Disassembly

Area	Picture	Description
Main System		12. Bottom view after remove HDD, WLAN, Memory, ODD module.
		13. Remove top cover pushing hook of point 1 hook and remove keyboard pushing hook of point * Caution Lift up Top cover after fully opening the lid.
		14. Use tweezers, wooden cutter, '-' driver to disassemble Topcover.
		15. Use tweezers, wooden cutter, '-' driver to disassemble Keyboard. * Caution 1. Be careful of injury and scratch of Top surface when use instruments. 2. Don't lift up Keyboard highly.

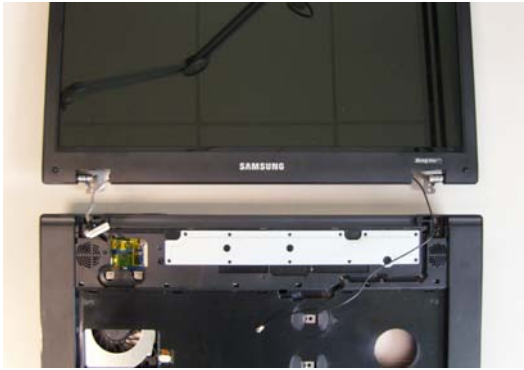
4. Assembly and Disassembly

Area	Picture	Description
Main System		16. Lift up FPC Connector cover like a picture and disassemble Keyboard FPC. * Caution Don't lift up FPC Connector cover highly. That may cause Connector crash.
		17. Disassemble 4 cables to remove Top ass y.
		18. Disassemble Touchpad FFC after lifting up FPC Connector cover. * Caution Don't lift up FPC Connector cover highly. That may cause Connector crash.
		19. Disassemble Speaker Cable by pulling out the connector like a picture.

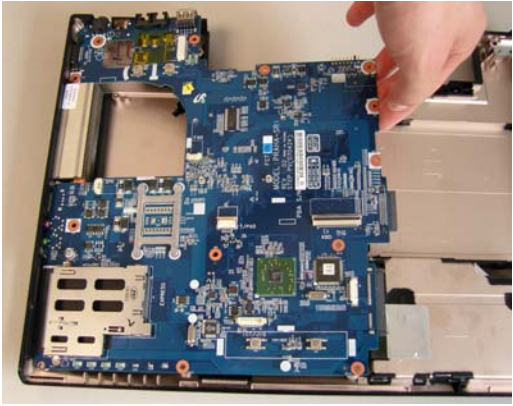
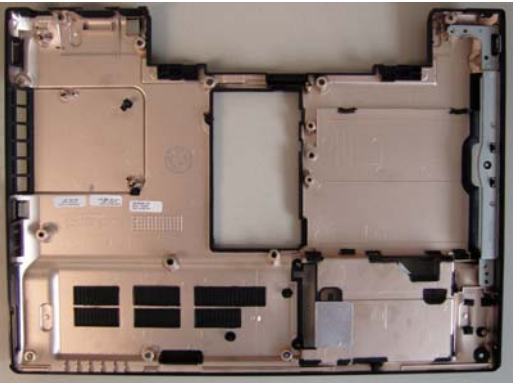
4. Assembly and Disassembly

Area	Picture	Description
Main System		20. Disassemble LCD Cable by pull out left direction. * Caution If lift up Top without disconnection of LCD Cable, that may cause LCD connector crash..
		21. Pull out the Wireless LAN Antenna from bottom side carefully.
		22. Pull out the Wireless LAN Antenna from bottom side carefully.
		23. Disassembly LCD Ass'y from System after remove 2 screws. - M2.6 L8 : 2pcs

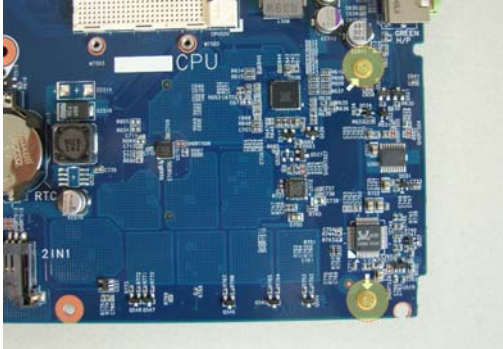
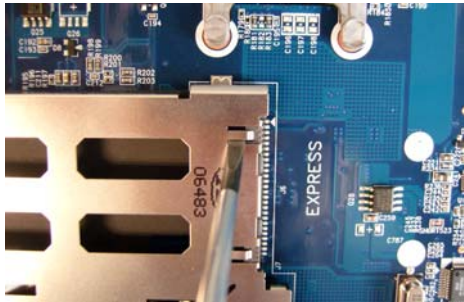
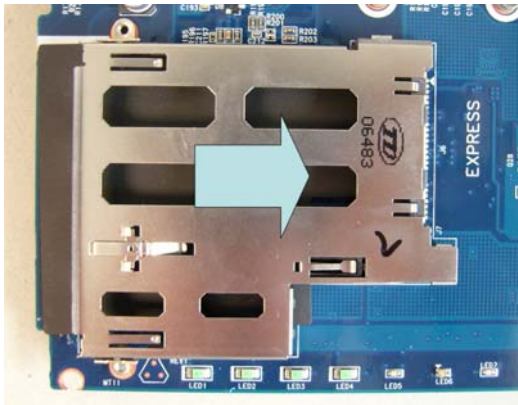
4. Assembly and Disassembly

Area	Picture	Description
Main System		24. After disassembly LCD Ass'y.
		25. Pull out from right and disassemble top assy..
		26. Remove 5pcs screws to disassemble Mainboard, FAN, Bluetooth and remove Bluetooth cable. - M2 L4 : 5pcs
		27. Disassemble FAN power cable and remove FAN.

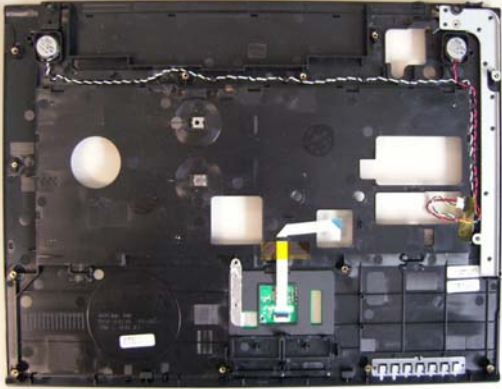
4. Assembly and Disassembly

Area	Picture	Description
Main System		28. Remove Mainboard from right side as like picture. * Caution If lift up from left side, that may cause crash of some ports
		29. Bottom after removing the Main Board.
		30. Remove 7pcs screws to disassemble Heat Pipe and MDC. - M2 L4 : 1pcs - Special Screw : 6pcs
		31. Turn screw like a picture and lift up the CPU. * Caution Be care of not to bend CPU Pin.

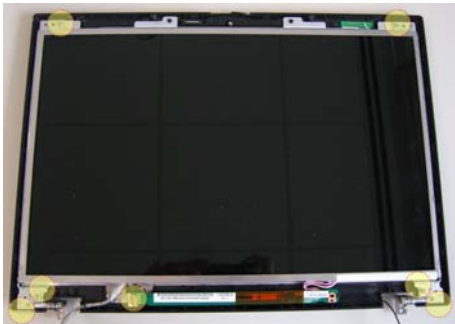
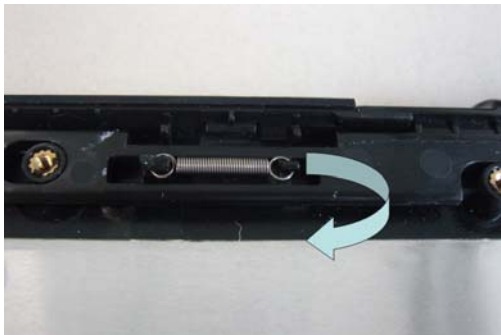
4. Assembly and Disassembly

Area	Picture	Description
Main System		32. Remove 2 screws to disassemble Express Frame. - M2 L6 : 2pcs
		33. Lift up metal latch using driver to disassemble express frame. * Caution Be care of not to bend.
		34. Pull out to right direction and disassemble express frame.
		39. The Main Board after removing the Thermal Duct, Heatsink, CPU, Express Frame, and MDC

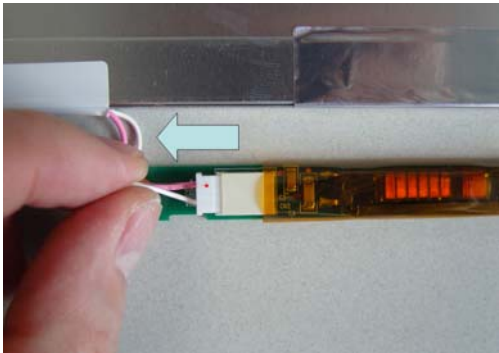
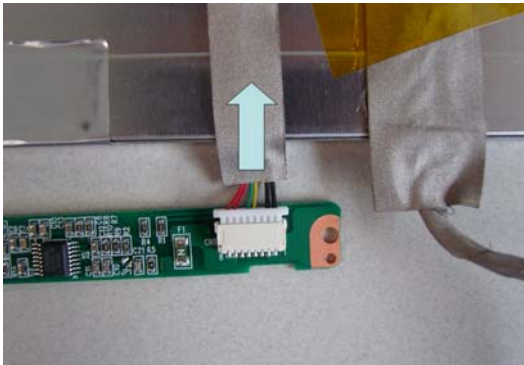
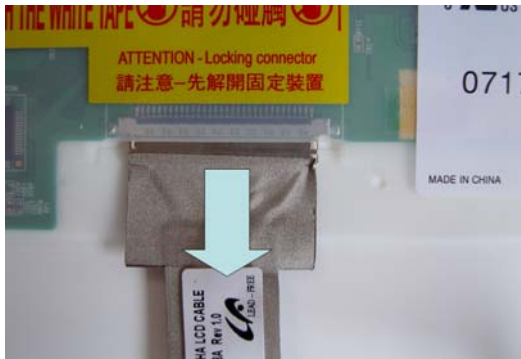
4. Assembly and Disassembly

Area	Picture	Description
Top Ass'y		1. Remove speaker. * Caution Touchpad module is fixed using by tape on Top
LCD Ass'y		1. Remove 5 screws after detaching rubber. - M2 L6 : 5pcs
		2. Use tweezers, wooden cutter or '-' driver when remove rubbers. * Caution Be careful of injury and scratch of LCD Front surface when use instruments.
		3. Disassemble the LCD Front like a picture.. * Caution Be careful of injury and scratch of LCD Front surface when use instruments.

4. Assembly and Disassembly

Area	Picture	Description
LCD Ass'y		4. Disassemble the LCD Module and Inverter from LCD Back after removing 7 screws. - M2 L6 : 7pcs
		5. Disassemble the Bracket Upper after removing 2 screws. - M2 L4 : 2pcs
		6. Lift up the Knob latch after removing the Spring like a picture
		7. LCD Back after removing the LCD Module, Bracket Upper and Knob Latch.

4. Assembly and Disassembly

Area	Picture	Description
LCD Ass'y		8. Disassemble 3pcs connector from LCD Module.
		9. Disconnect the LCD Module from Inverter like a picture.
		10. isconnect the LCD Cable from Inverter like a picture.
		11. Disconnect the LCD Cable from LCD Module like a picture after detaching the silver adhesive.

4. Assembly and Disassembly

Area	Picture	Description
LCD Ass'y		12. Disassemble the LCD L, R Bracket after removing 6 screws. - M2 L3 : 6pcs * Caution Be care of not scratch the LCD surface when remove screws.
		13. LCD Module after removing LCD Cable, L, R Bracket and Inverter

4. Troubleshooting

1) General

(1) Tools used for repairing the product

System Diagnostics Disk

MS-DOS Booting Disk

System Diagnostics Card

Screwdrivers (+, -)

Tweezers

Multi-meter

Oscilloscope

Logic Analyzer

(2) Replaceable Units (FRU: Field Replaceable Unit)

DDR2 RAM Module

9.5mmH 2.5" SATA HDD

ODD – Super multi Dual layer drive or DVD Combo Drive or Etc.

Wireless LAN Module

Bluetooth Module

MDC Module

Keyboard

System FAN

Touch Pad

LCD Panel

LCD Inverter

Main Board

PCI Express Card Frame

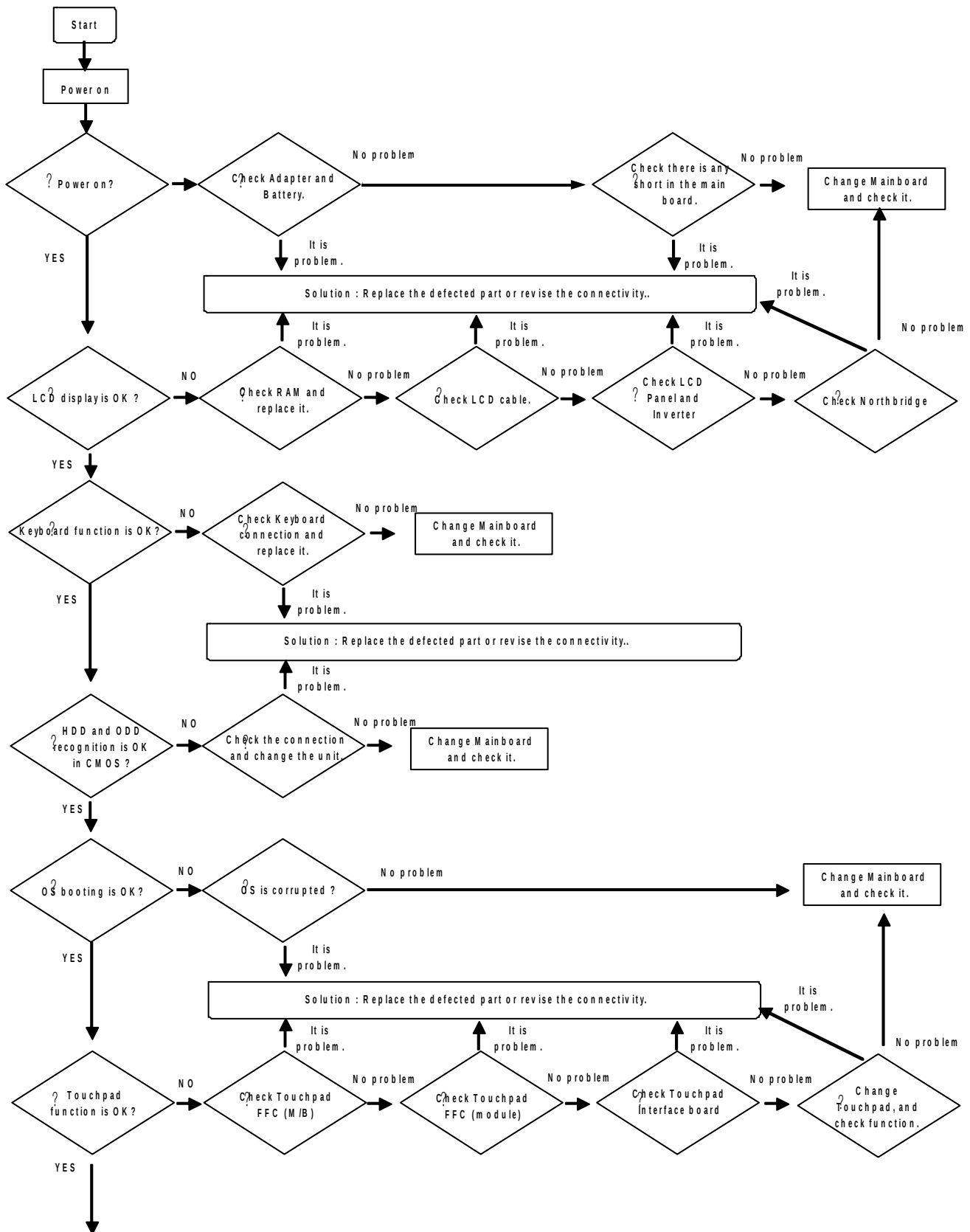
Harness Cable – Bluetooth Cable, RJ11 Cable, MDC Cable, LCD Cable

Wireless LAN Antenna

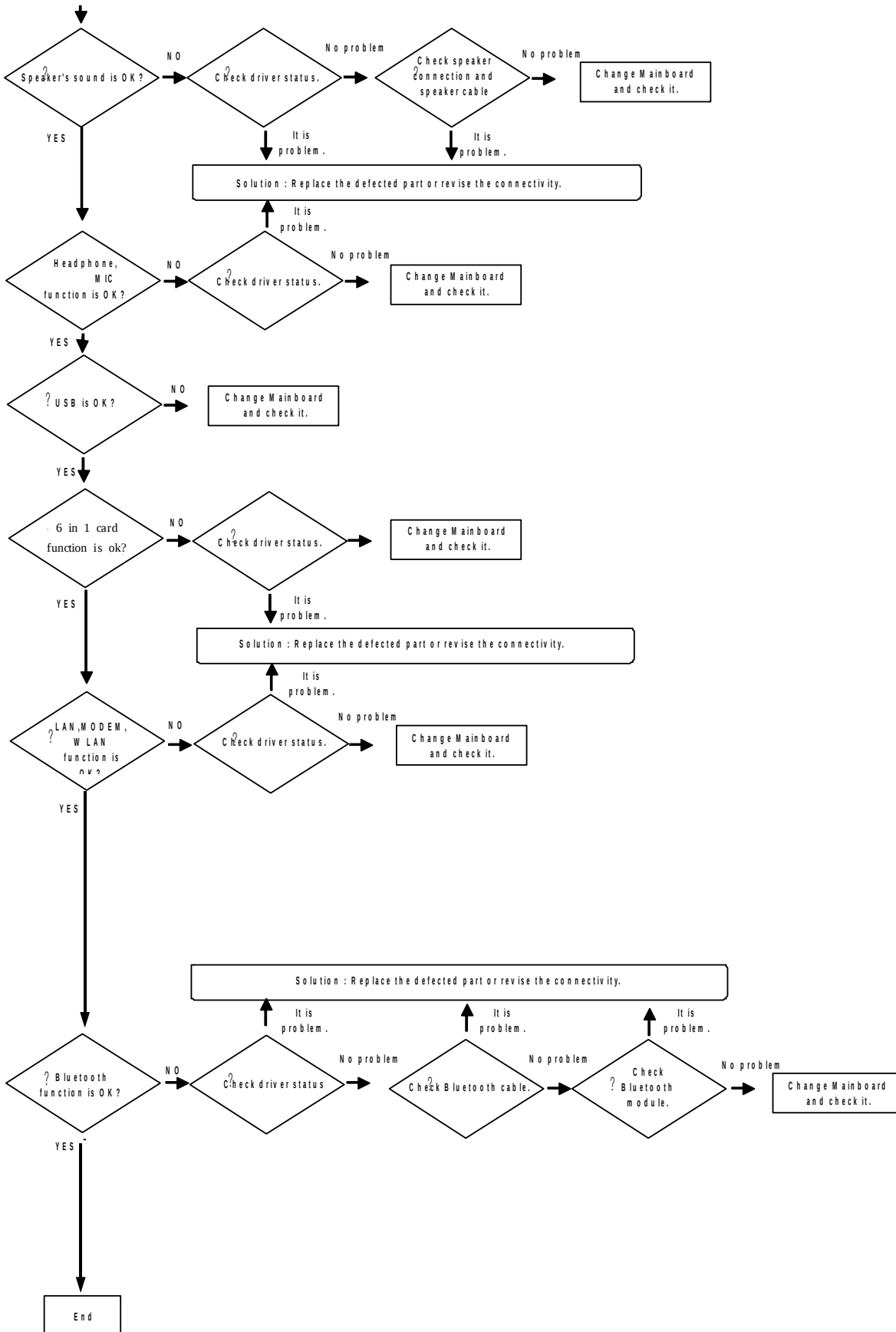
FFC - Touch Pad FFC.

4. Troubleshooting

2) Debugging Flow Chart



4. Troubleshooting



4. Troubleshooting

3) System Diagnosis

(1) System Diagnostics Card

The Diagnostics Card shows the system operations during the POST (Power On Self Test) in a 2 digit hexadecimal number by connecting the cable to the 10 pin connector below the PCMCIA slot after separating the Top part. The card is used to evaluate the reason for the malfunction without disassembling the system when the system malfunctions and to test if the system operates normally after replacing a defective FRU.

(2) Debugging Code

In general, if a defect of the circuit or part is detected during the system test, the system stops at a particular code. The error codes for each part of the system are listed in the following table.

Code	Beeps	POST Routine Description
02h		Verify Real Mode
03h		Disable Non-Maskable Interrupt
04h		Get CPU type
06h		Initialize system hardware
08h		Initialize chipset with initial POST values
09h		Set IN POST flag
0Ah		Initialize CPU registers
0Bh		Enable CPU cache
0Ch		Initialize caches to initial POST values
0Eh		Initialize I/O component
0Fh		Initialize the local bus IDE
10h		Initialize Power Management
11h		Load alternate registers with initial POST values
12h		Restore CPU control word during warm boot
13h		Initialize PCI Bus Mastering devices
14h		Initialize keyboard controller
16h	1-2-2-3	BIOS ROM checksum
17h		Initialize cache before memory auto size
18h		8254 timer initialization
1Ah		8237 DMA controller initialization
1Ch		Reset Programmable Interrupt Controller
20h	1-3-1-1	Test DRAM refresh
22h	1-3-1-3	Test 8742 Keyboard Controller
24h		Set ES segment register to 4 GB
26h		Enable A20 line
28h		Auto size DRAM
29h		Initialize POST Memory Manager
2Ah		Clear 512 KB base RAM
2Ch	1-3-4-1	RAM failure on address line xxxx*
2Eh	1-3-4-3	RAM failure on data bits xxxx* of low byte of memory bus
2Fh		Enable cache before system BIOS shadow
30h	1-4-1-1	RAM failure on data bits xxxx* of high byte of memory bus
32h		Test the CPU bus-clock frequency
33h		Initialize Phoenix Dispatch Manager
36h		Warm start shutdown

4. Troubleshooting

38h		Shadow system BIOS ROM
3Ah		Auto size cache
3Ch		Advanced configuration of chipset registers
3Dh		Load alternate registers with CMOS values
42h		Initialize interrupt vectors
45h		POST device initialization
46h	2-1-2-3	Check the ROM copyright notice
48h		Check the video configuration against CMOS
49h		Initialize PCI bus and devices
4Ah		Initialize all video adapters on the system
4Bh		Quiet Boot start (optional)
4Ch		Shadow video BIOS ROM
4Eh		Display the BIOS copyright notice
50h		Display the CPU type and speed
51h		Initialize EISA board
52h		Test the keyboard
54h		Set key click if enabled
58h	2-2-3-1	Test for unexpected interrupts
59h		Initialize POST display service
5Ah		Display the prompt "Press F2 to enter SETUP"
5Bh		Disable CPU cache
5Ch		Test RAM between 512 and 640 KB
60h		Test extended memory
62h		Test extended memory address lines
64h		Jump to UserPatch1
66h		Configure advanced cache registers
67h		Initialize Multi Processor APIC
68h		Enable external and CPU caches
69h		Setup System Management Mode (SMM) area
6Ah		Display external L2 cache size
6Bh		Load custom defaults (optional)
6Ch		Display shadow-area message
6Eh		Display possible high address for UMB recovery
70h		Display error messages
72h		Check for configuration errors
76h		Check for keyboard errors
7Ch		Set up hardware interrupt vectors
7Eh		Initialize coprocessor if present
80h		Disable onboard Super I/O ports and IRQs
81h		Late POST device initialization
82h		Detect and install external RS232 ports
83h		Configure non-MCD IDE controllers
84h		Detect and install external parallel ports
85h		Initialize PC-compatible PnP ISA devices
86h		Re-initialize onboard I/O ports.
87h		Configure Mother board Configurable Devices
88h		Initialize BIOS Data Area
89h		Enable Non-Maskable Interrupts (NMIs)
8Ah		Initialize Extended BIOS Data Area

4. Troubleshooting

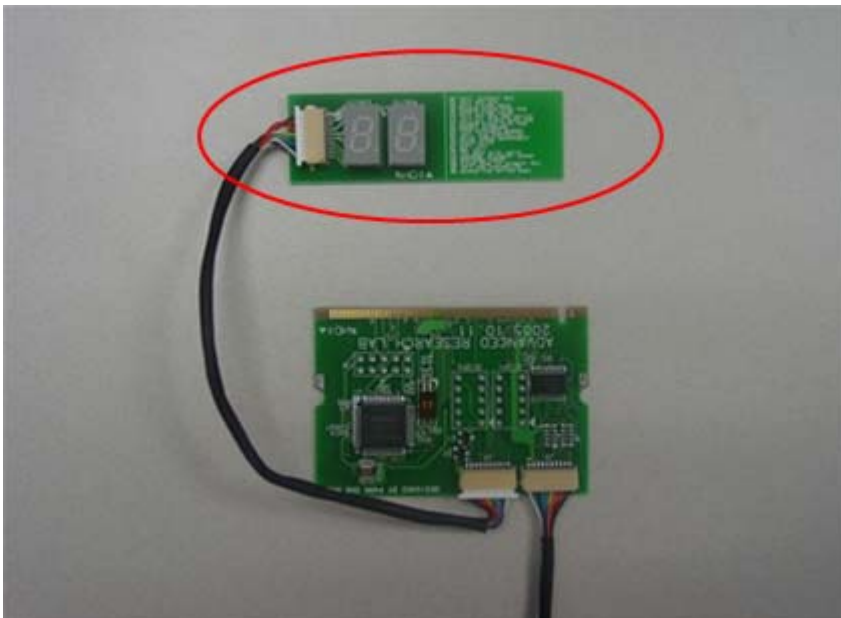
8Bh		Test and initialize PS/2 mouse
8Ch		Initialize floppy controller
8Fh		Determine number of ATA drives (optional)
90h		Initialize hard-disk controllers
91h		Initialize local-bus hard-disk controllers
92h		Jump to UserPatch2
93h		Build MPTABLE for multi-processor boards
95h		Install CD ROM for boot
96h		Clear huge ES segment register
97h		Fixup Multi Processor table
98h	1-2	Search for option ROMs. One long, two short beeps on
che		checksum failure
99h		Check for SMART Drive (optional)
9Ah		Shadow option ROMs
9Ch		Set up Power Management
9Dh		Initialize security engine (optional)
9Eh		Enable hardware interrupts
9Fh		Determine number of ATA and SCSI drives
A0h		Set time of day
A2h		Check key lock
A4h		Initialize Typematic rate
A8h		Erase F2 prompt
AAh		Scan for F2 key stroke
ACh		Enter SETUP
A Eh		Clear Boot flag
B0h		Check for errors
B2h		POST done - prepare to boot operating system
B4h	1	One short beep before boot
B5h		Terminate QuietBoot (optional)
B6h		Check password (optional)
B9h		Prepare Boot
BAh		Initialize DMI parameters
BBh		Initialize PnP Option ROMs
BCh		Clear parity checkers
BDh		Display Multi Boot menu
BEh		Clear screen (optional)
BFh		Check virus and backup reminders
C0h		Try to boot with INT 19
C1h		Initialize POST Error Manager (PEM)
C2h		Initialize error logging
C3h		Initialize error display function
C4h		Initialize system error handler
C5h		PnPnd dual CMOS (optional)

4. Troubleshooting

(3) Use of Debug card



-. Like upper picture, debug card is connected to DEBUG connector(as following) in Main board.

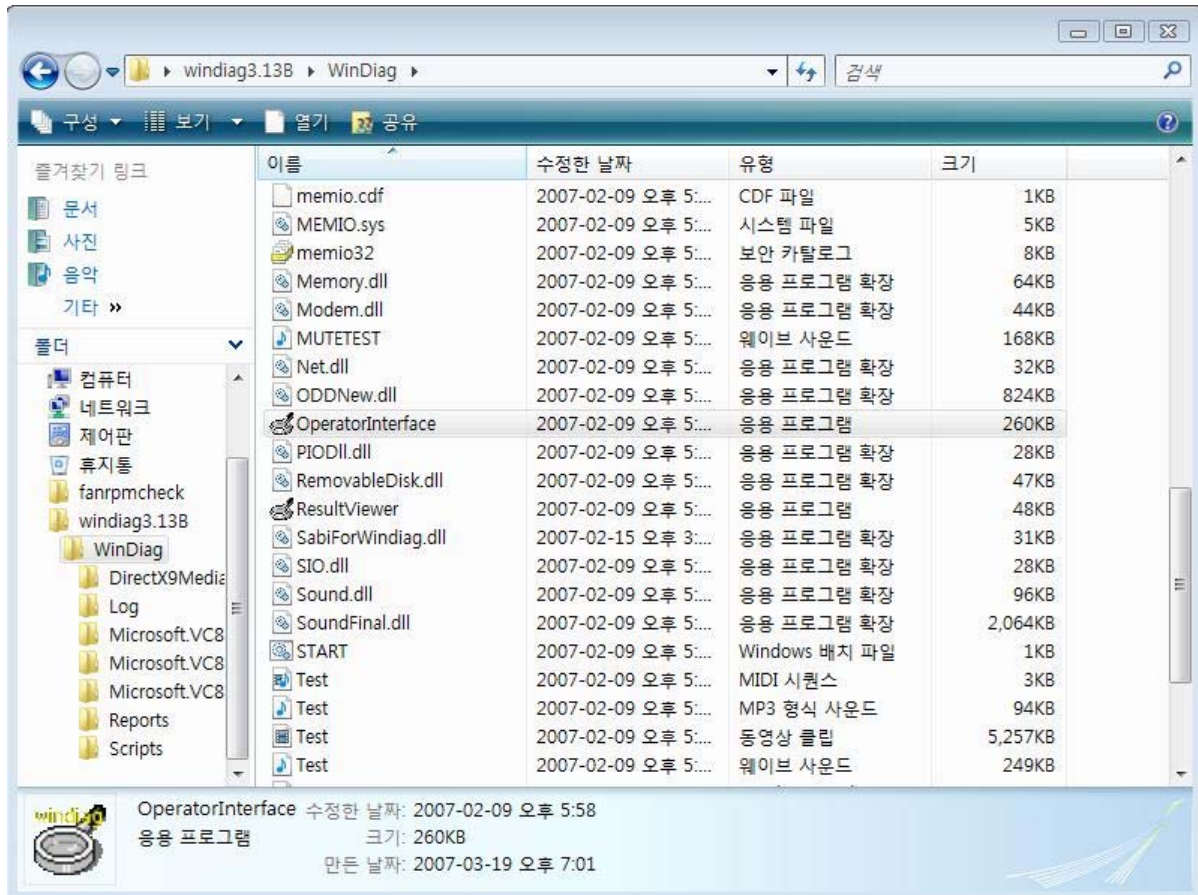


-. Debug code is shown at the viewer in red line.

4. Troubleshooting

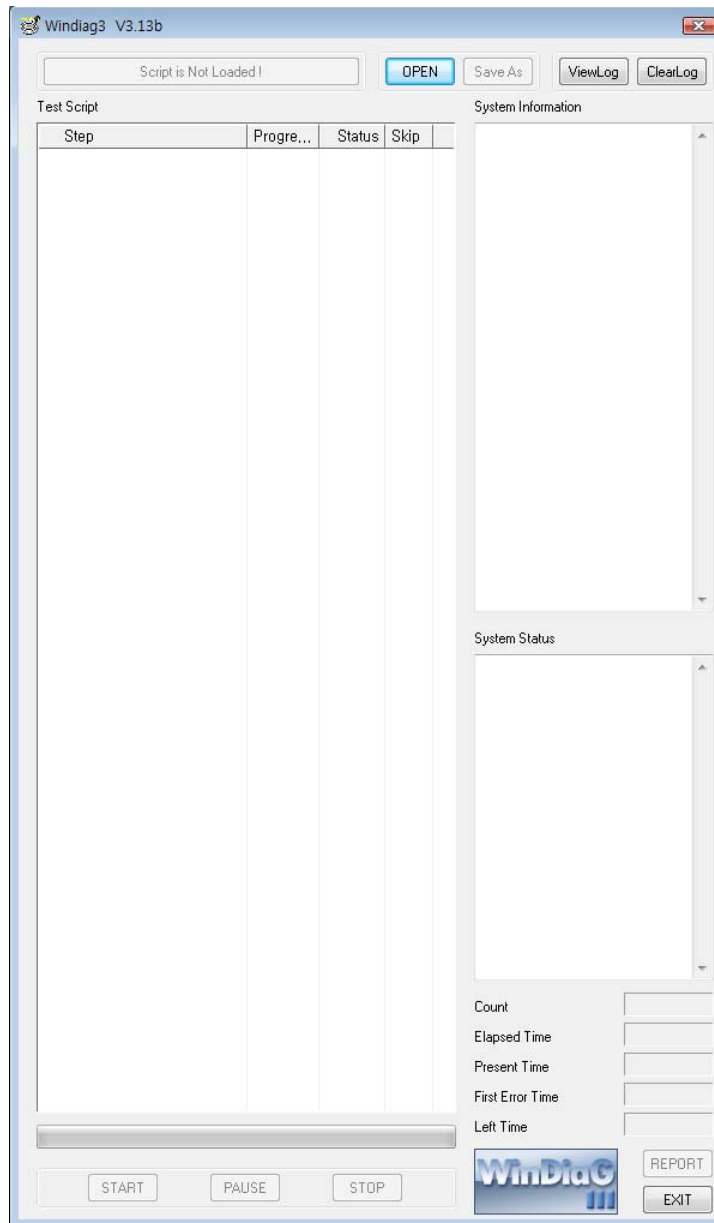
4) Use of diagnostic program

4)-1 Execute OperatorInterface.exe after copy Windiag3 to free folder.



4. Troubleshooting

4)-2 You can see screen such as lower part if click "OperatorInterface" Icon



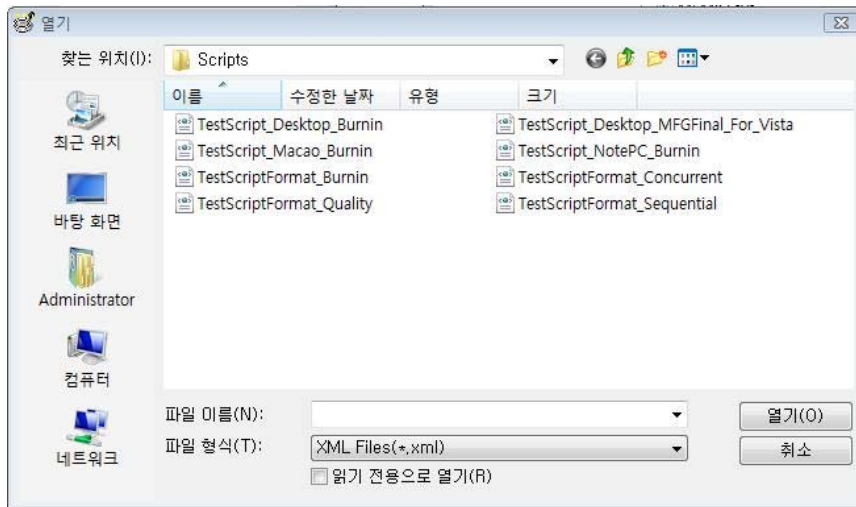
4)-3 Click the "Open" Button to open Script file.

In Note PC relationship occasion : Select TestScript_NotePC_Burnin.xml

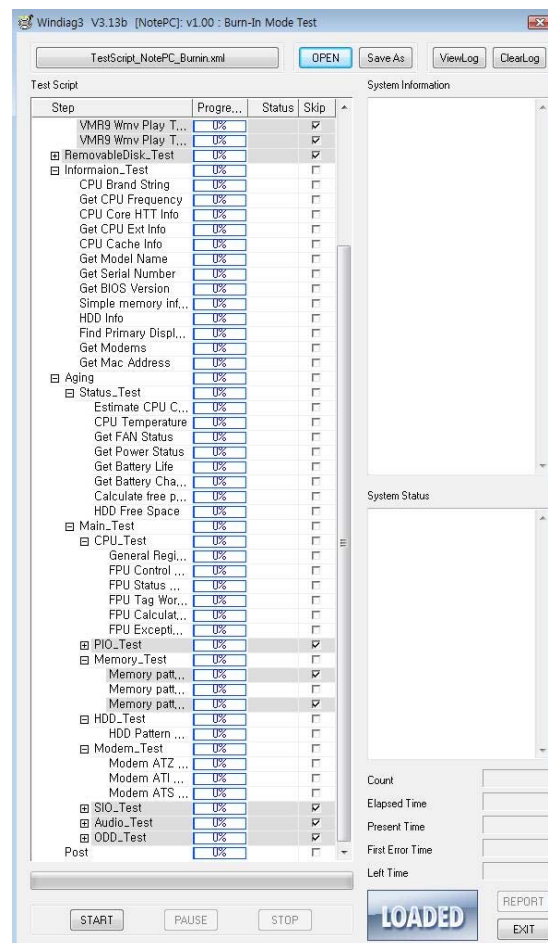
In Desktop relationship occasion : Select TestScript_Desktop_Burnin.xml

If you want to execute each item once : Select TestScriptFormat_Concurrent.xml

4. Troubleshooting



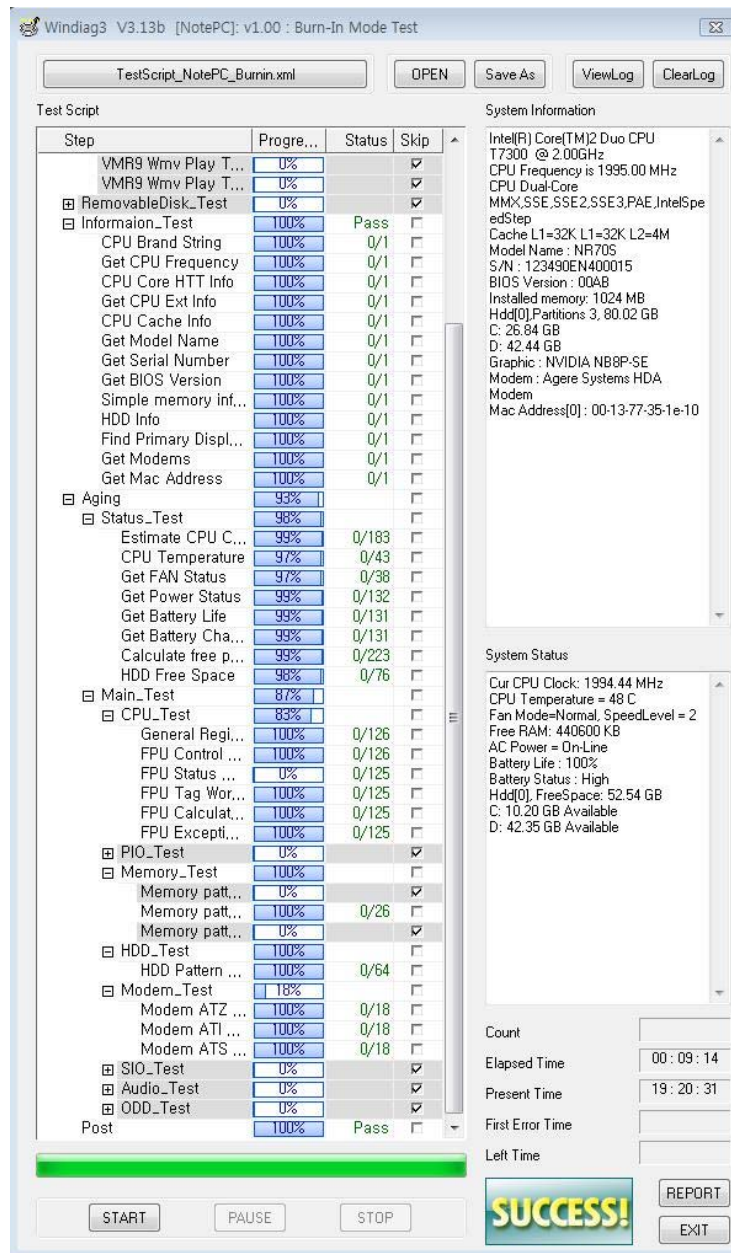
4)-4 If select enumeration, show relevant script on left side screen in OperatorInterface.



4. Troubleshooting



4. Troubleshooting



4)-7 End Windiag because EXIT does click.

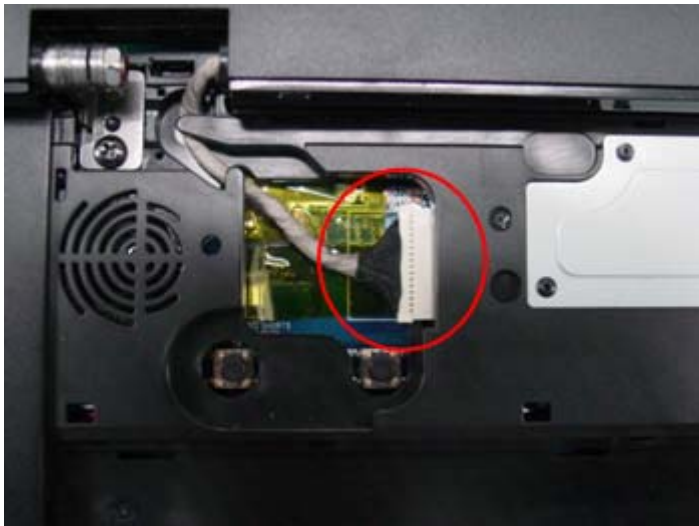
4. Troubleshooting

5) Hardware Troubleshooting

For the procedures to disassemble each part, refer to the descriptions of Chapter 4, "Disassembly and Reassembly".

◆ LCD Related Troubles

1. The screen is dark or the colors of the screen are distorted.
 - Check the connection status between the LCD module and the LCD cable, between the LCD cable and the main board LCD connector and between the LCD cable and the LCD inverter.
 - Replace the LCD cable or LCD inverter.
 - Check if there is a part of the LCD that is bent or broken due to impact.



2. No picture appears on the screen.
 - Check the connection status between the LCD module and the LCD cable, between the LCD cable and the main board LCD connector and between the LCD cable and the LCD inverter.
 - Replace the LCD cable or LCD inverter.
 - Check if the System LED of the main board is blinking. (Check if it is operating or not)
 - Check if the memory module is out of order.
 - Check if the Power button can be normally pressed.
3. The LCD brightness is not adjusted.
 - Check if the LCD inverter is out of order.
 - Check the BIOS version and check if the standard adapter is used.
 - Replace the LCD cable or LCD inverter and check if it is out of order.

4. Troubleshooting

4. The LCD blinks while the system is in operation.

- Check if there is a magnetic body near the touch pad button or the system or check if there is an exterior defect to the LCD or system.
- Replace the LCD cable or LCD inverter and check if it is out of order.
- Check if a standard adapter is being used (19V/4.17A/90W).

◆ Main System Troubles

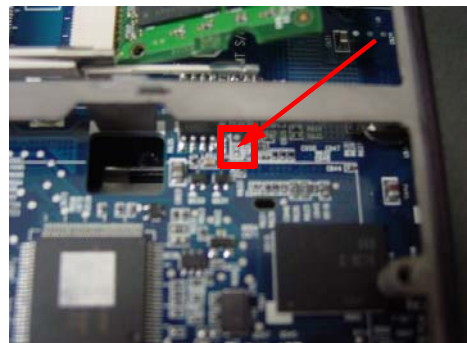
5. The system is not turned off.

- Check if the AC adapter LED is lit and if the adapter is properly connected to the system.
(Check the adapter LED)
- If the AC adapter is not connected, check the charge status of the battery. Even if the battery is charged, if the remaining battery charge is too low, the system may not be turned on.
(As the following figure shows, press the PUSH button on the battery and check the remaining battery charge via the LEDs)
- Check if there are any alien substances in the Power switch. if have,change the LED



6. Although system power is supplied, the system does not boot or immediately turns off after being turned on.

- Since this may be a short circuit in the system, disconnect the power immediately, disassemble the system and check if there are any conducting alien objects such as a screw inside.
- Check the connection status between the CPU and the RHE.
- Replace the memory module and check if it is out of order.
- Reset the RTC Reset terminal next to the memory socket.
Remove RTC cable from RTC connector
Connect the two pad of the cap for a while
- Replace the main board.



4. Troubleshooting

7. The Express card is not inserted or the Eject button does not work.

- This may occur when the insulator within the Express card slot is enraptured.
- Replace the Express card slot frame and check if it is out of order.

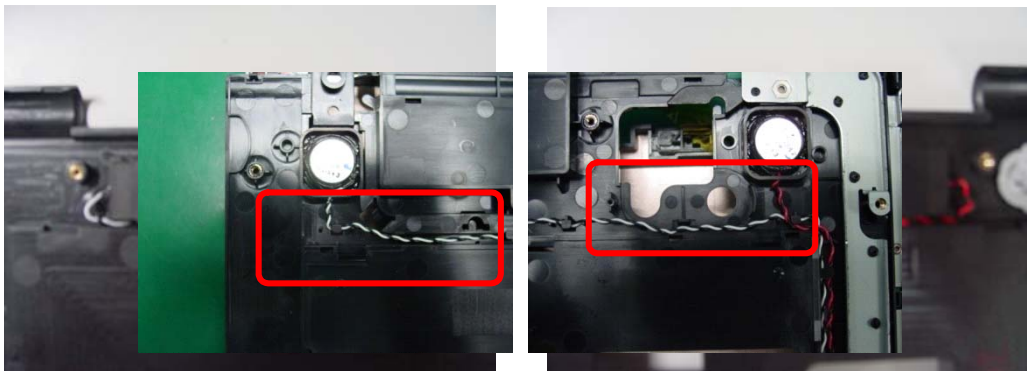
8. There is no sound from the speaker.

(Insert the figure of the audio jacks so that the reader can check via the figure.)

- Check if the earphones or headphones are connected to the MIC jack of if there are any alien substances in the jack.



- Check if the sound is muted after booting up Windows.
- Check the connection status of the speaker cable and check if the speaker is out of order.
- Check if there is a magnetic object near the speaker.

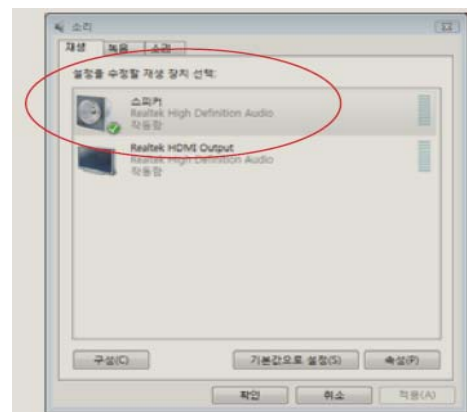


9. I cannot hear sound through the headphones.

- Check if the sound is muted in Windows.
- Turn the volume up.
- Replace the main board

10. The external microphone does not work normally.

- Check the audio driver settings and change them if necessary.
- Replace the main board



4. Troubleshooting

11. The HDD is not recognized.

- Check the connection status of the HDD connector. fixup HDD, check whether the system can be found. if not, change the connector on the motherboard and check again.



- If the 'Operating system not found' message appears during the booting process even though the HDD is recognized by CMOS, the operating system of the HDD may be corrupted or the HDD is out of order. In this case, format the HDD and reinstall the operating system or replace the HDD with a new one.

12. The Touch Pad does not work or is malfunctioning.

- Check the connection status of the Touch Pad FFC.
→ Check the connection status of the Touch Pad module



- If there is no problem with the connections, replace any suspicious parts and check if they are out of order.

4. Troubleshooting

13. The battery is not charged or the battery charge LED malfunctions.

→ Check the standard voltage of the adapter.



→ Check if the battery is defective.

→ Replace the main board.

14. The LAN function does not work.

→ Check if the LAN cable is properly connected.

→ Check if the LAN driver is properly installed.

→ If the driver is properly installed, check if the LAN cable jack is out of order.

→ Replace the main board

16. The wireless LAN does not work normally.

→ Check if the WLAN slide switch is in the ON position.

→ Check if the WLAN driver is properly installed.

→ Check if the wireless LAN antenna cable is properly connected.

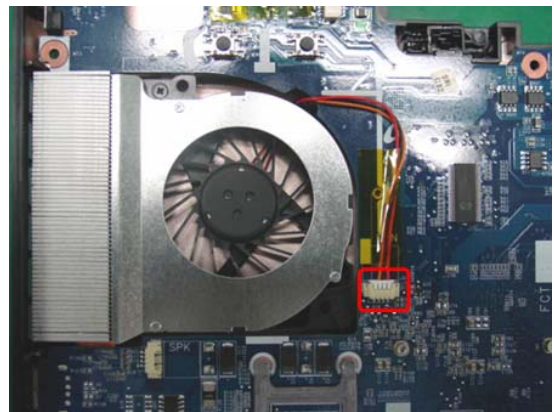
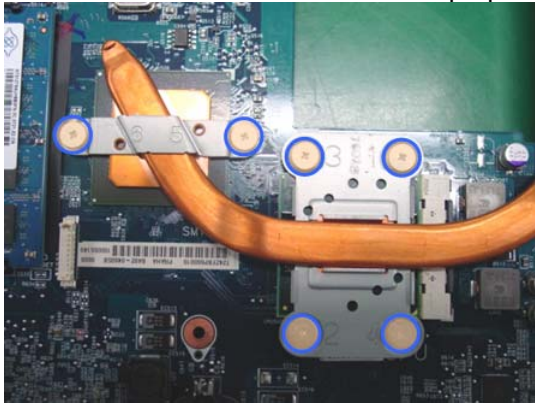
→ Replace the main board



4. Troubleshooting

17. The Fan does not work normally

- Check if the Thermal is locked tightly.
- Check if the Fan cable is properly connected



FAN Control Table

Item	Mode	rpm Design guideline SPEC : $\pm 10\%$
FAN Control	OFF	0
	LOW	2318 rpm
	MID 1	2508 rpm
	MID 2	2731 rpm
	MID 3	2858 rpm
	HIGH	3234 rpm

4. Troubleshooting

◆ When booting up the computer

18. The "Invalid System Disk. Replace the Disk and then press any key" message appears.
 - This message may appear when the connected USB memory or CD media does not include bootable data.
 - The "Reboot and Select the proper Boot device or Insert a bootable media in the selected Boot device and press a key" message appears.
 - Check if the signal and power cables are properly connected to the hard disk drive.
 - Check if the hard disk drive is recognized in the BIOS SETUP.
 - The operating system on the hard disk drive is corrupted. Reinstall Windows.
19. The "To enter BIOS SETUP, press <F2>. To continue, press <F1>." message appears.
 - This may happen when the BIOS settings are different from the system environment. In this case, setup the BIOS according to your system environment.
 - Press <F2> to enter the BIOS SETUP.
 - Check if the date and time are correct in the BIOS SETUP.
 - Save the settings and restart the system.
20. The 'CMOS Checksum error' message appears.
 - This message may appear when the CMOS battery of the main board is completely discharged. In this case, replace the battery with a new one of the same type and set up the BIOS SETUP according to your system environment.
21. Windows boots up in safe mode.
 - This may happen when Windows was not shut down normally. Therefore, shut down the system by selecting Start > Turn Off Computer.
 - This may happen when the system settings have been incompletely recognized.
 - Run Check Disk.
22. I cannot boot up the computer with a USB floppy drive or from USB memory.
 - Check if the diskette is bootable.
 - This may happen when the booting priority of the device is low. In this case, change the booting priority in the BIOS SETUP.

◆ When shutting down the computer

23. The computer is not shut down
 - If Windows does not end normally, you can forcibly shut down the system by pressing the Power button. If the power-saving feature is activated on the Power button, press the Power button for more than 4 seconds to turn the computer off. If the computer is then turned on again, Check Disk is automatically run.

4. Troubleshooting

◆ Windows / Screen Related Problems

24. The computer hangs while running a program.

→ If the running program causes an error:

In Windows XP, press the <Ctrl>, <Alt> and key combination, select the application program and click on End Task in the Applications tab of the [Windows Task Manager] window.

In Windows 2000, press the <Ctrl>, <Alt> and key combination, select the application program or an application that does not respond and click on End Task in the [End Program] window.

→ If Windows does not respond, restart the computer. Restart the computer by pressing the Power button.

25. No picture is displayed on the external monitor.

→ Press the Switch LCD/CRT Monitor function key and check if the screen output is output to another display device.

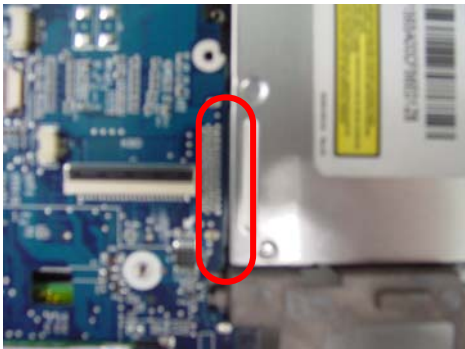
→ Check if the hardware is out of order referring to the descriptions in the LCD related section of the Hardware Troubleshooting.

→ For models with external graphics, replace the VGA board and check if it is out of order.

◆ CD/DVD-ROM Related Troubles

26. A disc is not recognized or read.

→ Check if the ODD module and the main board are properly connected with the 50 pin connector



→ Replace the ODD, if necessary.

◆ Power-Saving Mode Related Troubles

27. Connecting a USB device to the computer in standby mode.

→ If a USB device is connected to the computer in standby mode, the screen may be abnormally displayed.

You have to connect a USB device when the computer is operating normally.

28. A USB device is not working normally when the computer returns from standby mode.

→ In this case, separate and reconnect the USB device.

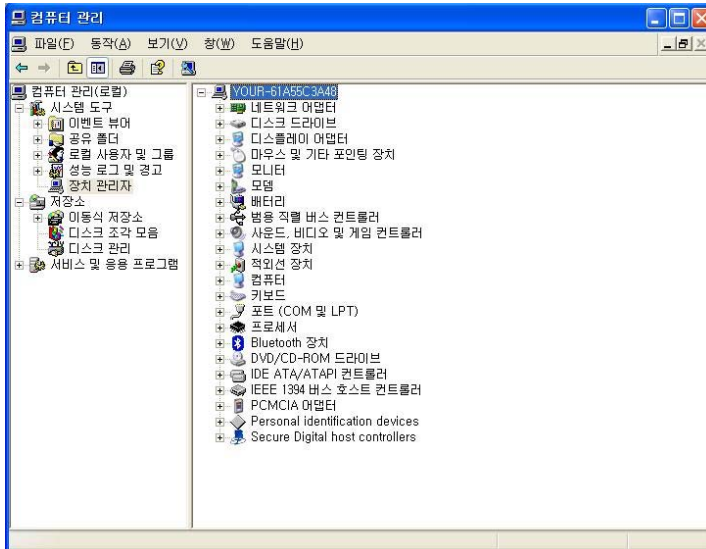
29. The picture is displayed abnormally when the computer running the Command Prompt (MS-DOS) enters standby mode and then returns from standby mode.

→ Press the <Alt> and <Tab> key combination to display the picture on the screen.

4. Troubleshooting

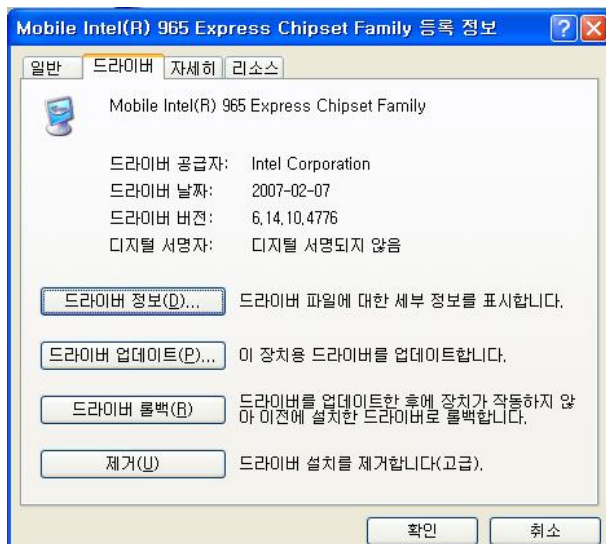
6) Device Settings Related Software Diagnosis

- (1) Check if the drivers of each of the devices are properly installed. That is, check if there are any yellow exclamation marks in the Device Manager.



- (2) Check the device driver version and check if it is conflicting with another driver. If the driver is not properly installed, install a new driver.

(The following figure illustrates the properties of the Internal GFx device driver).



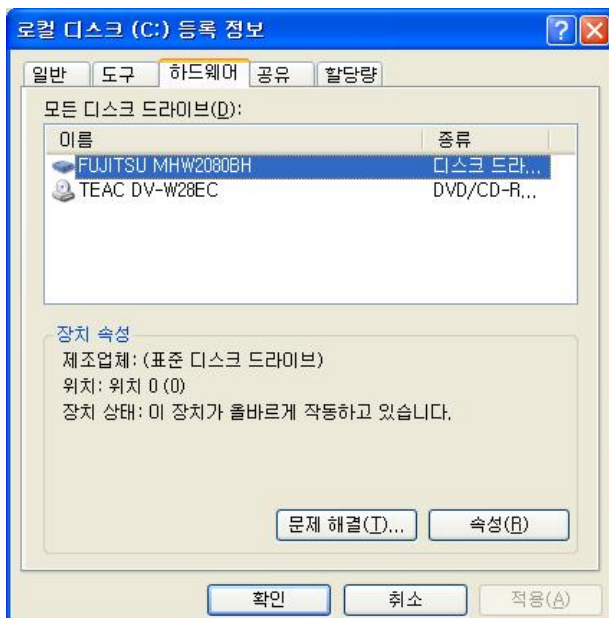
- (3) Check if the program is properly installed.

4. Troubleshooting



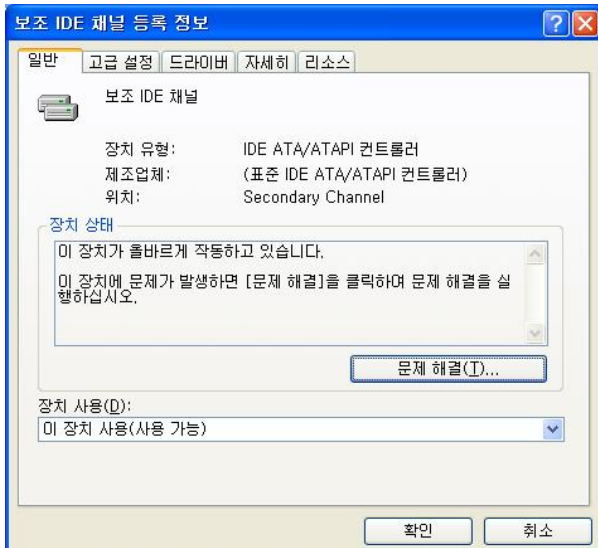
(4) HDD and ODD Related Problems

For an HDD, check if the HDD operates in Ultra DMA Mode 5 by selecting the Primary IDE Channel in the Control Panel as follows. If it does not, check the BIOS SETUP, reinstall the operating system or replace the HDD-FPC or HDD, if necessary.



4. Troubleshooting

For an ODD, check if it operates in Ultra DMA Mode 2. If it does not, check if the disc inserted into the ODD is clean. If the disc is contaminated, the access speed may slows down. If the disc is clean, check the BIOS SETUP, reinstall the operating system or ODD, if necessary.



Check if the HDD and ODD models are properly displayed. If not, check the BIOS SETUP or replace the FPC or drive, if necessary.

(5) Windows Vista System

The operating system(OS) installed on this product is the latest version of Windows Vista, You cannot install an operating system other than vista as well as any unauthorized copy of Windows Vista.

Other operating systems (Windows 98,Windows ME,Windows 2000,Windows XP,Windows 2003 Server,UNIX and LINUX.other Windows Vista versions,etc.)other than the operating system already installed on this computer are not supported.

Installing a program that does not support Windows Vista,may cause the program to not work properly.

In this case,ask the corresponding software manufacturer about the problem . if you request our services to resolve a problem caused bu incompatible software.

(6) Other Problems

Press each corresponding button and check its operation.

The following figure illustrates the operation of the volume control button.

4. Troubleshooting

7) Battery Use Time

Check the following check lists for systems where the battery use time is too short to diagnose problems.

(1) Check the battery

Check if the battery is out of order referring to the Battery check program distributed to Service Centers and the 'Battery Check Manual' included in the 'Note-PC A/S Guide'.

1. Battery Check List

Please mark “✓” in the box (□) of each applicable items, after checking the battery status with the “battery checking program”

1. Does the battery communicate normally with system?

✓ PASS

□ FAIL

2. Is the battery charged normally?

✓ PASS

□ FAIL

3. Is the battery discharged normally?

✓ PASS

□ FAIL

4. Is the battery still in warranty?

□ Excess than 6 months : Out of warranty

✓ Excess than 300 Cycles : Out of warranty

✓ Less than 6 months : PASS

□ Less than 6 months : FAIL

2. Criteria for each of the check lists.

1. Does the battery communicate normally with system?

□ PASS

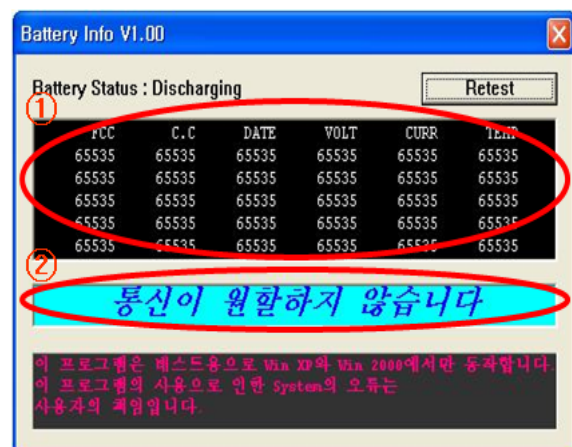
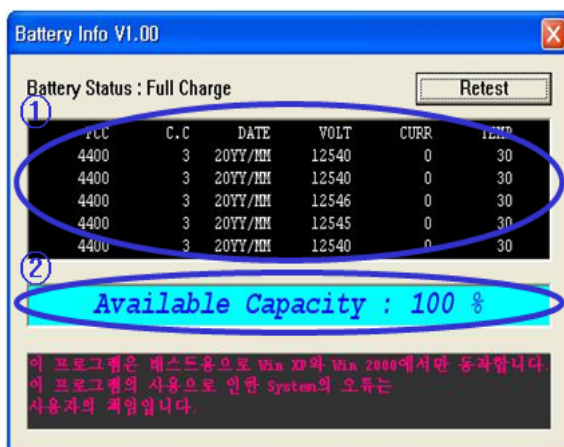
□ FAIL

①: Data displayed in the data window.

①: The code 65535 displayed

②: Available capacity displayed : 0 ~ 100%

②: Displayed the error message in Korean
“통신이 원활 하지 않습니다”



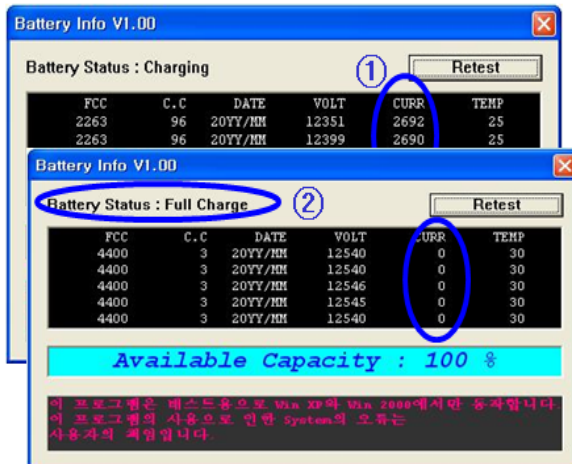
☞ recommended : When the communication failed, please set a normal battery to the system and check first which -battery or system- has the problem.

4. Troubleshooting

2. Is the battery charged normally?

☐ PASS

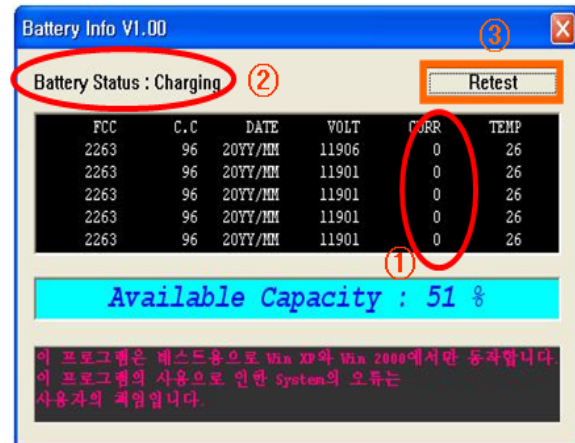
①: Pass, if the CURR values are within 35 ~ 3500



②: Pass, even if the CURR value is 0 but the battery is in status of Full Charge

☐ FAIL

①,②: Fail, if the CURR values are 0 and the battery status is in Charging.

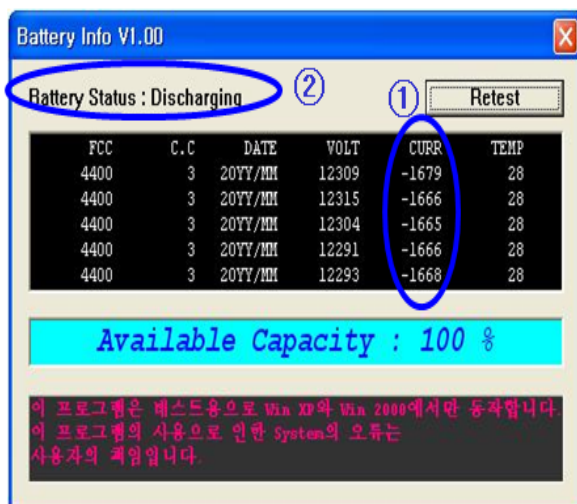


③: if the CURR value is 0 and in status of Charging, please reconfirm the "fail" after 2~3 times of Retest.

3. Is the battery discharged normally?

☐ PASS

①,②: Pass, if the CURR values are within -50 ~ -5000 and the battery status is in Discharging.



☐ FAIL

Fail, if the System is off status when the adaptor is removed from the System

4. Troubleshooting

4. Is the battery still in warranty?

☐ Excess than 6 months : Out of warranty

☐ Excess than 300 cycles : Out of warranty

☞ **Warranty period : Within 6 months after sales date, more than 60% of initial electric capacity after 300 cycles.**

*** Reference :** If a battery is out of warranty, the battery can not be considered as “defected”. So if a customer requests to exchange his battery in this case, the battery should be provided **onerously with sales price**. So please persuade customer to use continuously his battery, with the explanation of effective capacity of his battery, if the battery have no defect but only small decrease of capacity.

☐ Less than 6 months : PASS

☐ Less than 6 months : FAIL

☞ ①Please refer to “Capacity Standard Table” (or ②Capacity Standard Graph). Please judge Pass or Fail after checking the sales date of a battery. Pass, if the capacity of the battery is over than the value of corresponded date of “Available Capacity” column in the Table. Fail, if the capacity is lower than the value.

*** Reference :** The battery capacity can have individual error according to the user’s circumstance of the battery. So it is recommended that the battery should be checked (with Battery Check Program) after calibration (Smart Battery Calibration: Full charge/discharge or Full discharge/charge)

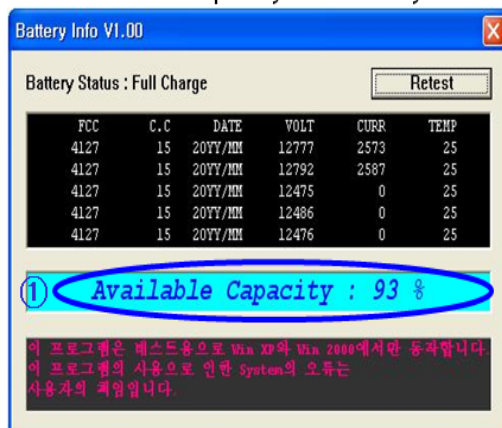
[Example]

☐ Less than 6 months: PASS

①: Available Capacity: 93%

Duration of Use : 1month(30days)

Available Capacity of warranty: 87.8%

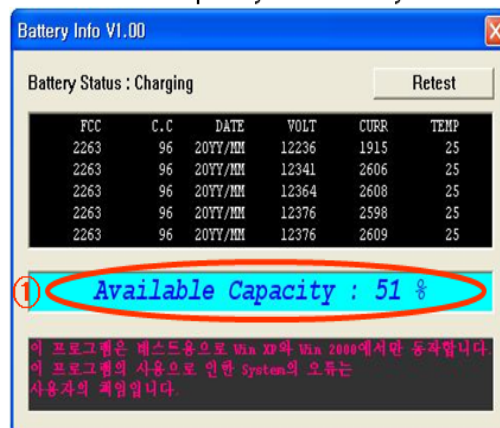


☐ Less than 6 months: FAIL

①: Available Capacity: 51%

Duration of Use : 1month(30days)

Available Capacity of warranty: 87.8%



*** Reference :** If the sale date is 2004.5.10 and service receipt date is 2004.6.10, the Duration of Use is regarded as 1 month(30days)

4. Troubleshooting

Duration of Use	Available Capacity(%)
Within 0.5month (15days)	More than 93.6 %
Within 1.0month (30days)	More than 87.8 %
Within 1.5month (45days)	More than 82.5 %
Within 2.0month (60days)	More than 77.8 %
Within 2.5month (75days)	More than 73.6 %
Within 3.0month (90days)	More than 70.0 %
Within 3.5month (105days)	More than 66.9 %
Within 4.0month (120days)	More than 64.4 %
Within 4.5month (135days)	More than 62.5 %
Within 5.0month (150days)	More than 61.1 %
Within 5.5month (165days)	More than 60.3 %
Within 6.0month (180days)	More than 60.0 %

* Reference

Duration of Use : The using period from the sales date of the system (with battery)

Available Capacity(%) : The real capacity of the battery, decreased from the design capacity by the user's circumstance, keeping status or etc.

4. Battery Check Program

① Battery Status : Full Charge, in Charging, Full Discharge, in Discharging

② FCC : Full Charge Capacity. Expected capacity when the battery will be charged fully.

③ C.C : The times of full discharge after full charge

④ DATE : Sales date of the System year/month

⑤ VOLT : The voltage of charge or discharge of the battery

⑥ CURR : The current of charge or discharge of the battery

⑦ TEMP : The temperature of battery

⑧ Available Capacity : The percentage of present maximum available capacity compared to design capacity. Or “통신이 원활 하지 않습니다”: the error message when System MICOM can not communicate with battery.

4. Troubleshooting

(2) Check the battery use environment

1. Generally, the battery usage time in advertisements by notebook manufacturers refers to the maximum battery use time. Since the system specifications and the usage environment may differ, the user's battery usage time may differ from the advertisement even if there is no problem with the system.
2. Conditions for the company's maximum battery use time
 - a. Minimum LCD brightness, base system, the wireless LAN R/F is turned off, BatteryManager-Maximum Battery Mode
 - b. Measuring Tool: BatteryMark v.4.0.1
3. If a customer complains about the battery usage time, let them know that the battery usage time may differ depending on the model specifications and the usage environment and recommend the following usage environment for longer battery time.
 - a. Use the company's power-saving program, BatteryManager, and set BatteryManager to Maximum Battery Mode.
 - b. LCD brightness: Set to the minimum level as long as the user does not experience inconvenience.
 - c. Disable unnecessary devices
: Turn the wireless LAN R/F switch off and disable USB devices (DMB, fingerprint recognition and Bluetooth)

4. Troubleshooting

8) Other

8)-1. CPU Spec

CPU	4-6 code	Type	업체 P/N	Description
T7700	0902-002199	uFCPGA	LF80537GG0564M	2.4GHz, uFCPGA, 479P, TR, PLASTIC, 1.05V, 34W, 0to+100C, 4MB, FSB800
T7500	0902-002198	uFCPGA	LF80537GG0494M	2.2GHz, uFCPGA, 479P, TR, PLASTIC, 1.05V, 34W, 0to+100C, 4MB, FSB800
T7300	0902-002197	uFCPGA	LF80537GG0414M	2.0GHz, uFCPGA, 479P, TR, PLASTIC, 1.05V, 34W, 0to+100C, 4MB, FSB800
T7100	0902-002196	uFCPGA	LF80537GG0332M	1.8GHz, uFCPGA, 479P, TR, PLASTIC, 1.05V, 34W, 0to+100C, 2MB, FSB800

8)-2. Model Numbering Rule

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	S	P	2	8	N	H	*	*	*	*	/	2	0	0
Desc- ription	Transaction Group	Model Group	Model Name (Project)	CPU type	OS type	Derived Code (H/W & S/W)					Delim- iter	CPU Clock or Transaction Route Name		
		Product Name			Model Property									

- Field 1 : Transaction Group (For a newly added transaction group, the code is notified to the: Strategy Group)
- Field 2~4 : Product Group by Model and Line-up
- Field 5 : CPU type in an alphanumeric character
- Field 6 : OS in an alphanumeric character
- Field 7~10 : The derived Model Number including the CPU clock (34-decimal code, Representative model is numbered in a separate numbering)
- Field 11: Delimiter
- Field 12~14: The CPU clock according to the standard (For Notebooks, special and direct sales are numbered by additional numbering)

1. Detailed rules for each field

- Field 1~4: Transaction Group, Model Name, and Model Group depending on the model properties
- Field 1: Transaction Group

Desktop	M	D	G	C	W
Note PC	S				N

- Field 2: Model Group

Multi-Media	-	-	M
High End	T	H	T
Performance	P	B	P
Value	V	R	V
Entry	A	E	A
Slim D/T	F	F	-
Ultra Slim	Z	Z	Q
Slim 2 spindle	-	-	X

- Field 3~4: Unique Model Name

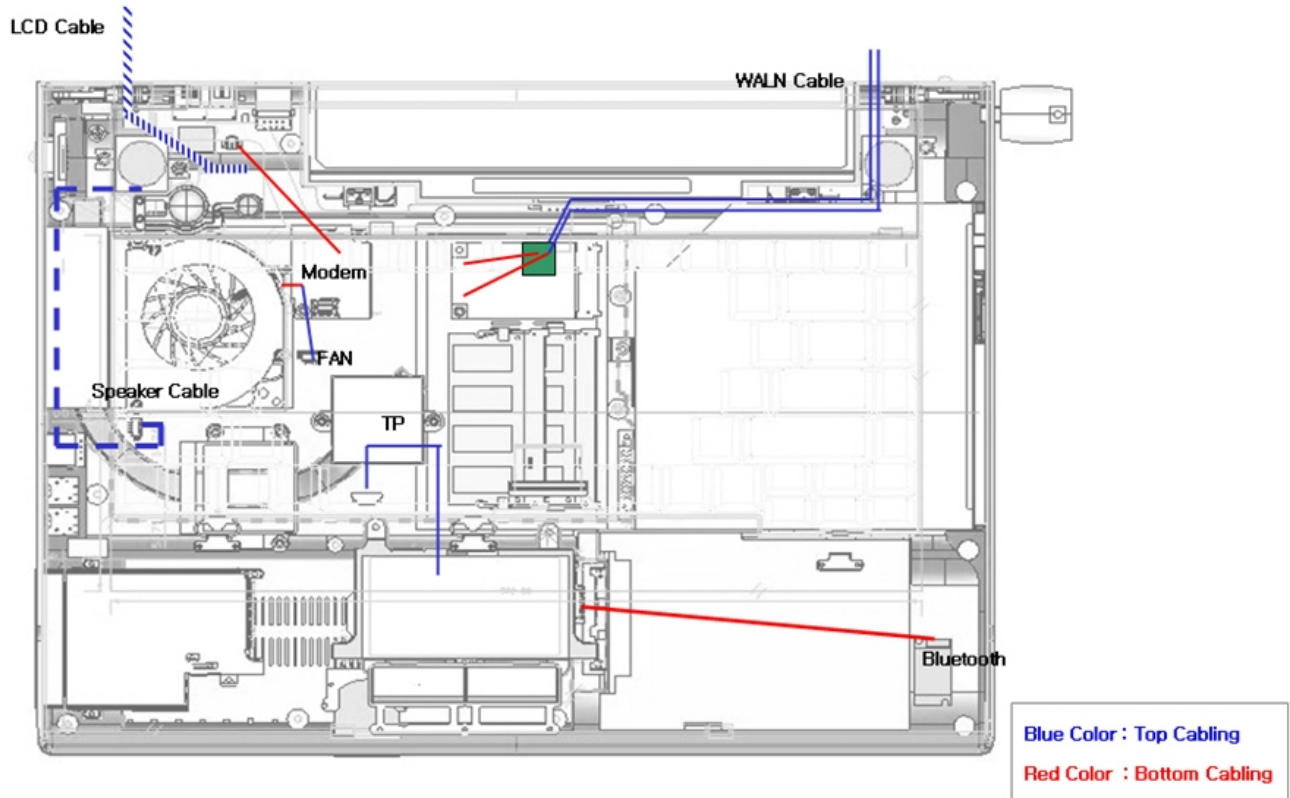
Item	Numbering	Change of 3rd Code	Change of 4th Code
Contents	by Series	Major Change	Minor Change

※ The standard for identifying major or minor changes is determined by the market situation (reflecting the roadmap).

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7. SYSTEM BLOCK DIAGRAM

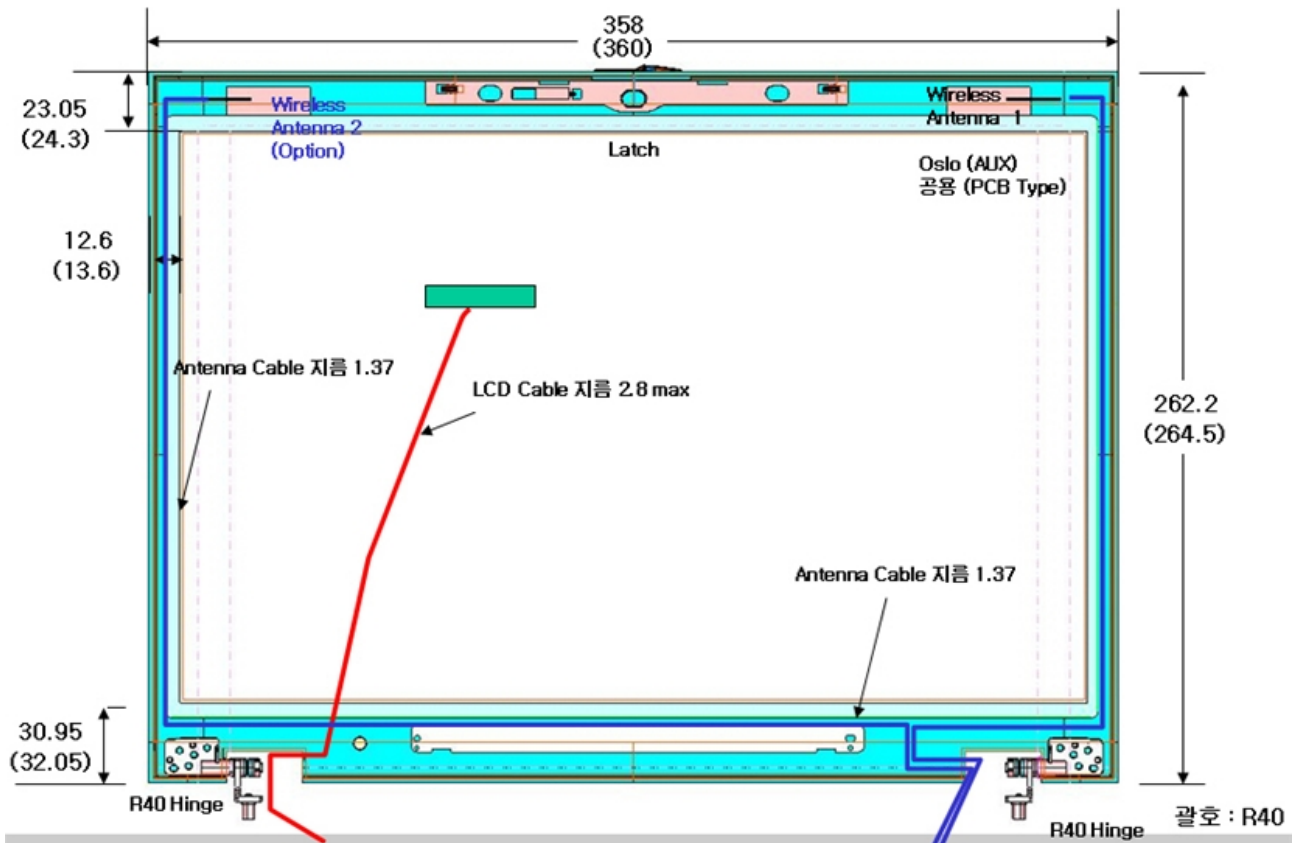
1) Wiring Diagram(Top / bottom)



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7. SYSTEM BLOCK DIAGRAM

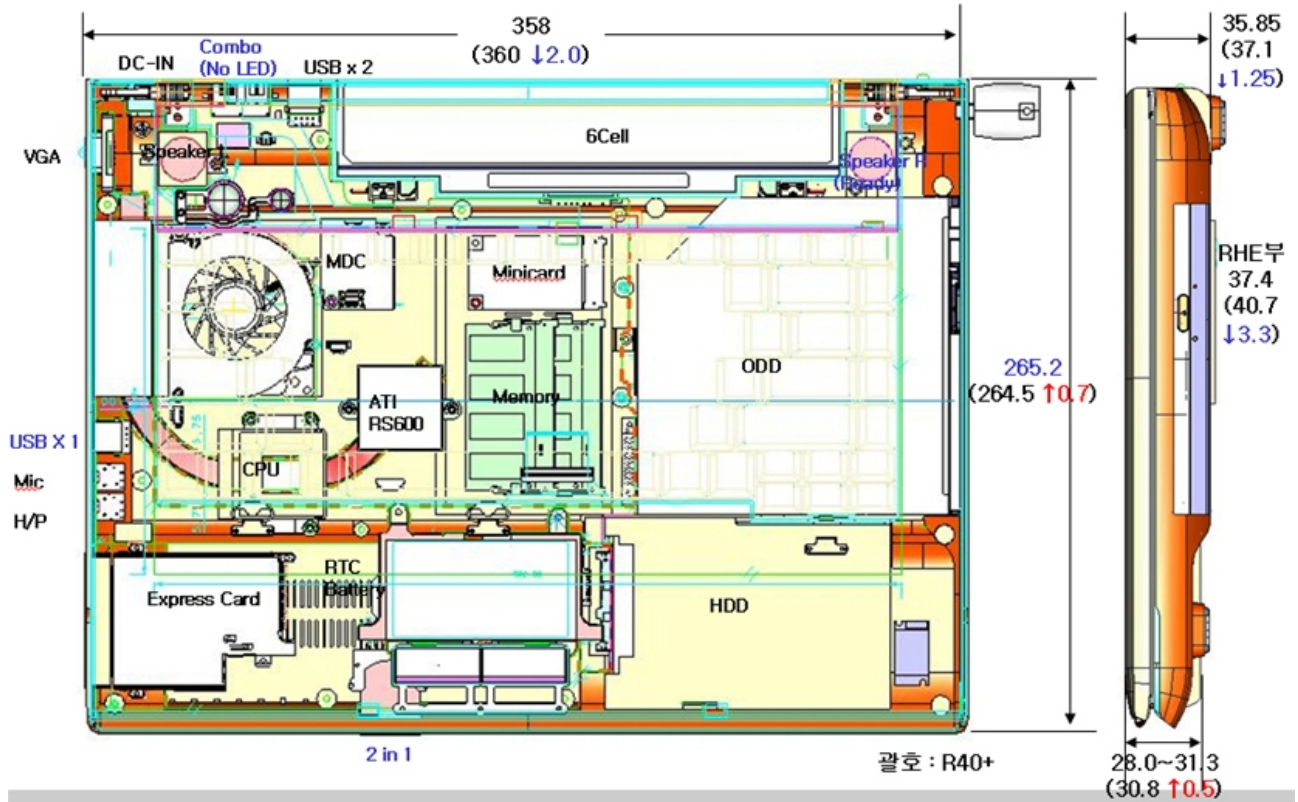
2) LCD



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7. SYSTEM BLOCK DIAGRAM

3) System Layout



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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
W_BLUETOOTH	1	0203-001869	TAPE-KAPSTONE	0.04	SNA	
T7100(1.8GHz)	1	0902-002196	IC-MICROPROCESSOR	1	SA	
T7300(2.0GHz)	1	0902-002197	IC-MICROPROCESSOR	1	SA	
T7500(2.2GHz)	1	0902-002198	IC-MICROPROCESSOR	1	SA	
T7700(2.4GHz)	1	0902-002199	IC-MICROPROCESSOR	1	SA	
CEL_530(1.73G)	1	0902-002225	IC-MICROPROCESSOR	1	SA	
T5250(1.5GHz)	1	0902-002226	IC-MICROPROCESSOR	1	SA	
T5450(1.66GHz)	1	0902-002228	IC-MICROPROCESSOR	1	SA	
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
512M_D6/512*1(SEC)	1	1105-001683	IC-DRAM MODULE	1	SA	M6-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(SEC)	1	1105-001683	IC-DRAM MODULE	2	SA	M7-01-2-70
1G_D6/512*2(NAN)	1	1105-001783	IC-DRAM MODULE	2	SA	M7-02-2-30
1G_D6/1G*1(NANYA)	1	1105-001790	IC-DRAM MODULE	1	SA	M8-02-2-30
2G_D6/1G*2(NANYA)	1	1105-001790	IC-DRAM MODULE	2	SA	O2-02-2-30
2G_D6 SEC	1	1105-001825	IC-DRAM MODULE	1	SA	
4G_D6(SEC 2GX2)	1	1105-001825	IC-DRAM MODULE	2	SA	
KOR/2PIN	1	3903-000025	CBF-POWER CORD	1	SC	
FAN_TOSHIBA	1	BA31-00051A	FAN-CPU	1	SA	F1-01-2-50
FAN_DELTA	1	BA31-00051B	FAN-CPU	1	SA	F1-02-2-50
BLUETOOTH CABLE	1	BA39-00536A	WIRE HARNESS-BLUETOOTH	1	SA	
LCD CABLE_FAV	1	BA39-00658A	CBF HARNESS-LCD	1	SA	
6C/ 2000mAh(SDI)	1	BA43-00162A	BATTERY-PACK	1	SA	P1-01-2-60

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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
ADAPTER_LISHIN_90W	1	BA44-00215A	ADAPTOR	1	SA	A2-01-2-50
ADAPTER_DELTA_90W	1	BA44-00233A	ADAPTOR	1	SA	A2-02-2-50
60W_ADAPTOR(LISHIN)	1	BA44-00238A	ADAPTOR	1	SA	A1-01-2-50
60W_ADAPTOR(DELTA)	1	BA44-00243A	ADAPTOR	1	SA	A1-02-2-50
INVERTER_MITEC	1	BA44-00248A	INVERTER	1	SA	V1-01-2-40
INVERTER_DARFON	1	BA44-00250A	INVERTER	1	SC	V1-03-2-30
H_PREMIUM RTY	1	BA46-05873A	S/W APPLICATION-RTY	1	SNA	
S/100GB(5400_FJST)	1	BA59-01671A	HDD	1	SA	H3-01-2-1
FOXCON B/T MODULE	1	BA59-01691A	MODULE-BLUETOOTH	1	SA	T1-02-2-50
S/80GB(5400_HGST)	1	BA59-01743A	HDD	1	SA	H2-04-2-1
15.4WXGA_GAL/AM 6L-1	1	BA59-01814A	LCD PANEL-154WXGA	1	SA	L1-01-2-50
SEMCO B/T MODULE	1	BA59-01916A	MODULE-BLUETOOTH	1	SA	T1-01-2-50
S/80GB(5400_FJST)	1	BA59-01947A	HDD	1	SA	H2-02-2-1
S/100GB(5400_FJTS)	1	BA59-01948A	HDD	1	SA	H3-02-2-1
S/80GB(5400_SEC)	1	BA59-01951A	HDD	1	SA	H2-03-2-19
S/120GB(5400R_FJTS)	1	BA59-01957A	HDD	1	SA	H4-01-2-1
S/80GB(5400_HGST)	1	BA59-02001A	HDD	1	SA	H2-01-2-39
S/120GB(5400_HGST)	1	BA59-02002A	HDD	1	SA	H4-02-2-40
S/160GB(5400R_HGST)	1	BA59-02003A	HDD	1	SA	H5-01-2-80
KEYBOARD_OKI	1	BA59-02044B	KEYBOARD	1	SA	K1-01-2-50
KEYBOARD_MONT	1	BA59-02044G	KEYBOARD	1	SA	K1-02-2-50
S/80GB(5400R_FJTS)	1	BA59-02085A	HDD	1	SA	H2-05-2-1
S/100GB(5400R_FJTS)	1	BA59-02086A	HDD	1	SA	H3-03-2-43
S/120GB(5400R_FJTS)	1	BA59-02087A	HDD	1	SA	H4-04-2-29
S/100GB(5400_SEC)	1	BA59-02093A	HDD	1	SA	H3-06-2-10
S/100GB(5400R_HGST)	1	BA59-02101A	HDD	1	SA	H3-05-2-44
S/80GB(5400R_FJTS)	1	BA59-02109A	HDD	1	SA	H2-07-2-38
S/160GB(5400R_FJTS)	1	BA59-02110A	HDD	1	SA	H5-02-2-20
15.4WXGA_GLA_AM_5L	1	BA59-02147A	LCD PANEL-154WXGA	1	SA	L1-02-2-50
WLAN	1	BA59-02154A	MODULE-WLAN	1	SA	
RHE_CCI	1	BA62-00445A	HEAT SINK-CPU	1	SA	F2-01-2-50
RHE_TOSHIBA	1	BA62-00445B	HEAT SINK-CPU	1	SA	F2-02-2-50
VISTA	1	BA68-01752W	LABEL-LOGO_VISTA	1	SNA	
BLUETOOTH LOGO	1	BA68-01781A	LABEL-BLUETOOTH	1	SA	
MEROM DUO CORE2	1	BA68-03575A	LABEL-INTEL_CORE2-DUO	1	SA	
VISTA_BASIC_LOGO	1	BA68-03685A	LABEL-LOGO_VISTA-BASIC	1	SA	
VISTA_PREMIUM LOGO	1	BA68-03686A	LABEL-LOGO_VISTA-PREMIUM	1	SA	
SENSR60	1	BA68-03931A	LABEL-FRONT_SENSR60	1	SA	
VISTA FAQ MANUAL	1	BA68-03976A	MANUAL	1	SNA	
INSTALL GUIDE_VISTA	1	BA68-03984A	MANUAL INSTALL-GUIDE_VISTA	1	SNA	

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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
SYSTEM ID LABEL_60W	1	BA68-04019A	LABEL RATING-SYSTEM	1	SNA	
SYSTEM ID LABEL_90W	1	BA68-04024A	LABEL RATING-SYSTEM	1	SNA	
ZAIGEN LABEL	1	BA68-04033A	LABEL-ZAIGEN	1	SA	
ATI_XPRESS 1250M	1	BA68-10191Y	LABEL-ATI_XPRESS1250	1	SA	
HDD BARCODE	1	BA68-20039A	LABEL-PPID_E	1	SA	
LCD CABLE LABEL	1	BA68-20039A	LABEL-PPID_E	2	SA	
FRONT	1	BA75-01941A	UNIT-HOUSING_LCD-FRONT	1	SA	
FAN-CABLE	2	0203-001869	TAPE-KAPTONE	0.04	SNA	
KAP_TAP_AUDIO CODEC	2	0203-001869	TAPE-KAPTONE	0.08	SNA	
KAP_TAP_AUDIO CODEC	2	0203-001869	TAPE-KAPTONE	0.08	SNA	
KAPTONE_LCD CONN	2	0203-001869	TAPE-KAPTONE	0.08	SNA	
KAPTONE_LCD CONN	2	0203-001869	TAPE-KAPTONE	0.08	SNA	
LCD+LCD-CABLE(L)	2	0203-001869	TAPE-KAPTONE	0.04	SNA	
TOP+FFC-TOUCHPAD	2	0203-001869	TAPE-KAPTONE	0.04	SNA	
TOP+SPEAKER-CABLE	2	0203-001869	TAPE-KAPTONE	0.04	SNA	
J7	2	3709-001491	CONNECTOR-CARD SLOT	1	SA	
J7	2	3709-001491	CONNECTOR-CARD SLOT	1	SA	
RTC BAT	2	4301-000108	BATTERY-LI	1	SC	
RTC BAT	2	4301-000108	BATTERY-LI	1	SC	
TOUCHPAD FFC	2	BA41-00802A	FFC-TOUCHPAD	1	SA	
LCD-BACK	2	BA42-00183A	ANTENNA-AUX	1	SA	
LCD-BACK	2	BA42-00183A	ANTENNA-AUX	1	SA	
TOUCHPAD BOARD	2	BA59-02145A	BOARD-TOUCHPAD	1	SA	
BARCKET_CPU	2	BA61-01060B	BRACKET-SUPPORT_CPU	1	SA	
BARCKET_CPU	2	BA61-01060B	BRACKET-SUPPORT_CPU	1	SA	
FRONT	2	BA63-00543A	PROTECTOR-LCD_FRONT	1	SA	
LCD-BACK	2	BA64-00716A	LOGO-SAMSUNG	1	SA	
LCD-BACK	2	BA64-00716A	LOGO-SAMSUNG	1	SA	
-	2	BA68-00386A	LABEL SHIPPING	0.093	SNA	
-	2	BA68-10150B	LABEL-LOGO_SAMSUNG	1	SNA	
TOP	3	BA68-20323A	LABEL CAUTION	1	SA	
BEZEL-ODD	3	BA75-01863A	UNIT-BEZEL_ODD	1	SA	
DVD	3	BA75-01863B	UNIT-BEZEL_ODD-MULTI_DL	1	SA	
DVD	3	BA75-01863B	UNIT-BEZEL_ODD-MULTI_DL	1	SA	
D3	4	0401-000132	DIODE-SWITCHING	1	SNA	
D3	4	0401-000132	DIODE-SWITCHING	1	SNA	
D4	4	0401-000132	DIODE-SWITCHING	1	SNA	
D4	4	0401-000132	DIODE-SWITCHING	1	SNA	
D500	4	0401-000191	DIODE-SWITCHING	1	SNA	
D500	4	0401-000191	DIODE-SWITCHING	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
D516	4	0401-000191	DIODE-SWITCHING	1	SNA	
D516	4	0401-000191	DIODE-SWITCHING	1	SNA	
D518	4	0401-000191	DIODE-SWITCHING	1	SNA	
D518	4	0401-000191	DIODE-SWITCHING	1	SNA	
D520	4	0402-001024	DIODE-RECTIFIER	1	SNA	
D520	4	0402-001024	DIODE-RECTIFIER	1	SNA	
D511	4	0402-001405	DIODE-SCHOTTKY	1	SNA	
D511	4	0402-001405	DIODE-SCHOTTKY	1	SNA	
D513	4	0402-001405	DIODE-SCHOTTKY	1	SNA	
D513	4	0402-001405	DIODE-SCHOTTKY	1	SNA	
D514	4	0402-001405	DIODE-SCHOTTKY	1	SNA	
D514	4	0402-001405	DIODE-SCHOTTKY	1	SNA	
ZD1	4	0403-001047	DIODE-ZENER	1	SA	
ZD1	4	0403-001047	DIODE-ZENER	1	SA	
D519	4	0404-000114	DIODE-SCHOTTKY	1	SNA	
D519	4	0404-000114	DIODE-SCHOTTKY	1	SNA	
D5	4	0404-001017	DIODE-SCHOTTKY	1	SNA	
D5	4	0404-001017	DIODE-SCHOTTKY	1	SNA	
D515	4	0404-001020	DIODE-SCHOTTKY	1	SNA	
D515	4	0404-001020	DIODE-SCHOTTKY	1	SNA	
D517	4	0404-001084	DIODE-SCHOTTKY	1	SNA	
D517	4	0404-001084	DIODE-SCHOTTKY	1	SNA	
D521	4	0404-001084	DIODE-SCHOTTKY	1	SNA	
D521	4	0404-001084	DIODE-SCHOTTKY	1	SNA	
D8	4	0404-001084	DIODE-SCHOTTKY	1	SNA	
D8	4	0404-001084	DIODE-SCHOTTKY	1	SNA	
D9	4	0404-001084	DIODE-SCHOTTKY	1	SNA	
D9	4	0404-001084	DIODE-SCHOTTKY	1	SNA	
Q17	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q17	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q24	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q24	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q27	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q27	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q521	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q521	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q522	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q522	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q526	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q526	4	0501-000465	TR-SMALL SIGNAL	1	SA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
Q527	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q527	4	0501-000465	TR-SMALL SIGNAL	1	SA	
Q3	4	0502-001226	TR-POWER	1	SNA	
Q3	4	0502-001226	TR-POWER	1	SNA	
Q502	4	0502-001226	TR-POWER	1	SNA	
Q502	4	0502-001226	TR-POWER	1	SNA	
Q523	4	0504-001157	TR-DIGITAL	1	SA	
Q523	4	0504-001157	TR-DIGITAL	1	SA	
Q544	4	0505-001049	FET-GAAS	1	SNA	
Q544	4	0505-001049	FET-GAAS	1	SNA	
Q545	4	0505-001049	FET-GAAS	1	SNA	
Q545	4	0505-001049	FET-GAAS	1	SNA	
Q546	4	0505-001049	FET-GAAS	1	SNA	
Q546	4	0505-001049	FET-GAAS	1	SNA	
Q547	4	0505-001049	FET-GAAS	1	SNA	
Q547	4	0505-001049	FET-GAAS	1	SNA	
Q548	4	0505-001049	FET-GAAS	1	SNA	
Q548	4	0505-001049	FET-GAAS	1	SNA	
Q28	4	0505-001173	FET-SILICON	1	SNA	
Q28	4	0505-001173	FET-SILICON	1	SNA	
Q538	4	0505-001173	FET-SILICON	1	SNA	
Q538	4	0505-001173	FET-SILICON	1	SNA	
Q534	4	0505-001760	FET-SILICON	1	SNA	
Q534	4	0505-001760	FET-SILICON	1	SNA	
Q500	4	0505-001861	FET-SILICON	1	SNA	
Q500	4	0505-001861	FET-SILICON	1	SNA	
Q1	4	0505-001883	FET-SILICON	1	SNA	
Q1	4	0505-001883	FET-SILICON	1	SNA	
Q12	4	0505-001883	FET-SILICON	1	SNA	
Q12	4	0505-001883	FET-SILICON	1	SNA	
Q13	4	0505-001883	FET-SILICON	1	SNA	
Q13	4	0505-001883	FET-SILICON	1	SNA	
Q14	4	0505-001883	FET-SILICON	1	SNA	
Q14	4	0505-001883	FET-SILICON	1	SNA	
Q15	4	0505-001883	FET-SILICON	1	SNA	
Q15	4	0505-001883	FET-SILICON	1	SNA	
Q2	4	0505-001883	FET-SILICON	1	SNA	
Q2	4	0505-001883	FET-SILICON	1	SNA	
Q31	4	0505-001883	FET-SILICON	1	SNA	
Q31	4	0505-001883	FET-SILICON	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
Q33	4	0505-001883	FET-SILICON	1	SNA	
Q33	4	0505-001883	FET-SILICON	1	SNA	
Q501	4	0505-001883	FET-SILICON	1	SNA	
Q501	4	0505-001883	FET-SILICON	1	SNA	
Q505	4	0505-001883	FET-SILICON	1	SNA	
Q505	4	0505-001883	FET-SILICON	1	SNA	
Q507	4	0505-001883	FET-SILICON	1	SNA	
Q507	4	0505-001883	FET-SILICON	1	SNA	
Q508	4	0505-001883	FET-SILICON	1	SNA	
Q508	4	0505-001883	FET-SILICON	1	SNA	
Q513	4	0505-001883	FET-SILICON	1	SNA	
Q513	4	0505-001883	FET-SILICON	1	SNA	
Q514	4	0505-001883	FET-SILICON	1	SNA	
Q514	4	0505-001883	FET-SILICON	1	SNA	
Q518	4	0505-001883	FET-SILICON	1	SNA	
Q518	4	0505-001883	FET-SILICON	1	SNA	
Q524	4	0505-001883	FET-SILICON	1	SNA	
Q524	4	0505-001883	FET-SILICON	1	SNA	
Q529	4	0505-001883	FET-SILICON	1	SNA	
Q529	4	0505-001883	FET-SILICON	1	SNA	
Q530	4	0505-001883	FET-SILICON	1	SNA	
Q530	4	0505-001883	FET-SILICON	1	SNA	
Q531	4	0505-001883	FET-SILICON	1	SNA	
Q531	4	0505-001883	FET-SILICON	1	SNA	
Q533	4	0505-001883	FET-SILICON	1	SNA	
Q533	4	0505-001883	FET-SILICON	1	SNA	
Q536	4	0505-001883	FET-SILICON	1	SNA	
Q536	4	0505-001883	FET-SILICON	1	SNA	
Q537	4	0505-001883	FET-SILICON	1	SNA	
Q537	4	0505-001883	FET-SILICON	1	SNA	
Q539	4	0505-001883	FET-SILICON	1	SNA	
Q539	4	0505-001883	FET-SILICON	1	SNA	
Q542	4	0505-001883	FET-SILICON	1	SNA	
Q542	4	0505-001883	FET-SILICON	1	SNA	
Q549	4	0505-001883	FET-SILICON	1	SNA	
Q549	4	0505-001883	FET-SILICON	1	SNA	
Q550	4	0505-001883	FET-SILICON	1	SNA	
Q550	4	0505-001883	FET-SILICON	1	SNA	
Q551	4	0505-001883	FET-SILICON	1	SNA	
Q551	4	0505-001883	FET-SILICON	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
Q7	4	0505-001883	FET-SILICON	1	SNA	
Q7	4	0505-001883	FET-SILICON	1	SNA	
Q20	4	0505-001920	FET-SILICON	1	SNA	
Q20	4	0505-001920	FET-SILICON	1	SNA	
Q21	4	0505-001920	FET-SILICON	1	SNA	
Q21	4	0505-001920	FET-SILICON	1	SNA	
Q22	4	0505-001920	FET-SILICON	1	SNA	
Q22	4	0505-001920	FET-SILICON	1	SNA	
Q23	4	0505-001920	FET-SILICON	1	SNA	
Q23	4	0505-001920	FET-SILICON	1	SNA	
Q29	4	0505-001920	FET-SILICON	1	SNA	
Q29	4	0505-001920	FET-SILICON	1	SNA	
Q18	4	0505-001921	FET-SILICON	1	SNA	
Q19	4	0505-001921	FET-SILICON	1	SNA	
Q19	4	0505-001921	FET-SILICON	1	SNA	
Q25	4	0505-001921	FET-SILICON	1	SNA	
Q25	4	0505-001921	FET-SILICON	1	SNA	
Q26	4	0505-001921	FET-SILICON	1	SNA	
Q525	4	0505-001921	FET-SILICON	1	SNA	
Q525	4	0505-001921	FET-SILICON	1	SNA	
Q5	4	0505-002182	FET-SILICON	1	SNA	
Q5	4	0505-002182	FET-SILICON	1	SNA	
Q543	4	0505-002183	FET-SILICON	1	SNA	
Q543	4	0505-002183	FET-SILICON	1	SNA	
Q600	4	0505-002183	FET-SILICON	1	SNA	
Q600	4	0505-002183	FET-SILICON	1	SNA	
Q601	4	0505-002183	FET-SILICON	1	SNA	
Q601	4	0505-002183	FET-SILICON	1	SNA	
Q602	4	0505-002183	FET-SILICON	1	SNA	
Q602	4	0505-002183	FET-SILICON	1	SNA	
Q11	4	0505-002189	FET-SILICON	1	SNA	
Q11	4	0505-002189	FET-SILICON	1	SNA	
Q32	4	0505-002189	FET-SILICON	1	SNA	
Q32	4	0505-002189	FET-SILICON	1	SNA	
Q506	4	0505-002189	FET-SILICON	1	SNA	
Q506	4	0505-002189	FET-SILICON	1	SNA	
Q519	4	0505-002189	FET-SILICON	1	SNA	
Q519	4	0505-002189	FET-SILICON	1	SNA	
Q540	4	0505-002189	FET-SILICON	1	SNA	
Q540	4	0505-002189	FET-SILICON	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
Q541	4	0505-002189	FET-SILICON	1	SNA	
Q541	4	0505-002189	FET-SILICON	1	SNA	
Q6	4	0505-002189	FET-SILICON	1	SNA	
Q6	4	0505-002189	FET-SILICON	1	SNA	
LED1	4	0601-000189	LED	1	SNA	
LED1	4	0601-000189	LED	1	SNA	
LED2	4	0601-000189	LED	1	SNA	
LED2	4	0601-000189	LED	1	SNA	
LED3	4	0601-000189	LED	1	SNA	
LED3	4	0601-000189	LED	1	SNA	
LED4	4	0601-000189	LED	1	SNA	
LED4	4	0601-000189	LED	1	SNA	
LED6	4	0601-001402	LED	1	SA	
LED6	4	0601-001402	LED	1	SA	
LED5	4	0601-002037	LED	1	SA	
LED5	4	0601-002037	LED	1	SA	
LED7	4	0601-002037	LED	1	SA	
LED7	4	0601-002037	LED	1	SA	
U2	4	0801-002195	IC-CMOS LOGIC	1	SA	
U2	4	0801-002195	IC-CMOS LOGIC	1	SA	
U511	4	0801-002195	IC-CMOS LOGIC	1	SA	
U511	4	0801-002195	IC-CMOS LOGIC	1	SA	
U521	4	0801-002478	IC-CMOS LOGIC	1	SNA	
U521	4	0801-002478	IC-CMOS LOGIC	1	SNA	
U500	4	0801-002998	IC-CMOS LOGIC	1	SNA	
U500	4	0801-002998	IC-CMOS LOGIC	1	SNA	
U501	4	0801-002998	IC-CMOS LOGIC	1	SNA	
U501	4	0801-002998	IC-CMOS LOGIC	1	SNA	
U10	4	0903-001439	IC-MICROCOMPUTER	1	SA	
U10	4	0903-001439	IC-MICROCOMPUTER	1	SA	
U506	4	0904-002207	IC-MEMORY CONT.	1	SA	
U506	4	0904-002207	IC-MEMORY CONT.	1	SA	
U11	4	0904-002230	IC-I/O CONTROLLER	1	SA	
U11	4	0904-002230	IC-I/O CONTROLLER	1	SA	
U13	4	0904-002297	IC-BUS CONTROLLER	1	SA	
U13	4	0904-002297	IC-BUS CONTROLLER	1	SA	
U1	4	1009-001010	IC-HALL EFFECT S/W	1	SNA	
U1	4	1009-001010	IC-HALL EFFECT S/W	1	SNA	
U503	4	1103-001333	IC-EEPROM	1	SA	
U503	4	1103-001333	IC-EEPROM	1	SA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
U513	4	1107-001646	IC-FLASH MEMORY	1	SA	
U513	4	1107-001646	IC-FLASH MEMORY	1	SA	
U509	4	1201-001991	IC-AUDIO AMP	1	SA	
U509	4	1201-001991	IC-AUDIO AMP	1	SA	
U505	4	1203-002062	IC-POSI.ADJUST REG.	1	SNA	
U505	4	1203-002062	IC-POSI.ADJUST REG.	1	SNA	
U516	4	1203-002546	IC-POSI.FIXED REG.	1	SA	
U516	4	1203-002546	IC-POSI.FIXED REG.	1	SA	
U519	4	1203-003344	IC-POSI.FIXED REG.	1	SA	
U519	4	1203-003344	IC-POSI.FIXED REG.	1	SA	
U6	4	1203-003480	IC-BATTERY	1	SA	
U6	4	1203-003480	IC-BATTERY	1	SA	
U7	4	1203-003765	IC-PWM CONTROLLER	1	SA	
U7	4	1203-003765	IC-PWM CONTROLLER	1	SA	
U508	4	1203-003898	IC-POWER SUPERVISOR	1	SA	
U508	4	1203-003898	IC-POWER SUPERVISOR	1	SA	
U12	4	1203-004685	IC-PWM CONTROLLER	1	SA	
U12	4	1203-004685	IC-PWM CONTROLLER	1	SA	
U520	4	1203-004687	IC-PWM CONTROLLER	1	SA	
U520	4	1203-004687	IC-PWM CONTROLLER	1	SA	
U510	4	1205-002807	IC-SWITCH	1	SA	
U510	4	1205-002807	IC-SWITCH	1	SA	
U518	4	1205-002853	IC-CODEC	1	SA	
U518	4	1205-002853	IC-CODEC	1	SA	
U502	4	1205-003090	IC-ETHERNET CONTROLLER	1	SA	
U502	4	1205-003090	IC-ETHERNET CONTROLLER	1	SA	
U8	4	1205-003157	IC-CLOCK GENERATOR	1	SA	
U8	4	1205-003157	IC-CLOCK GENERATOR	1	SA	
U512	4	1209-001718	IC-SENSOR	1	SA	
U512	4	1209-001718	IC-SENSOR	1	SA	
TH1	4	1404-001089	THERMISTOR-PTC	1	SNA	
TH1	4	1404-001089	THERMISTOR-PTC	1	SNA	
TH500	4	1404-001089	THERMISTOR-PTC	1	SNA	
TH500	4	1404-001089	THERMISTOR-PTC	1	SNA	
R255	4	2007-000048	R-CHIP	1	SA	
R255	4	2007-000048	R-CHIP	1	SA	
R633	4	2007-000052	R-CHIP	1	SA	
R633	4	2007-000052	R-CHIP	1	SA	
R217	4	2007-000067	R-CHIP	1	SNA	
R217	4	2007-000067	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R10	4	2007-000070	R-CHIP	1	SNA	
R10	4	2007-000070	R-CHIP	1	SNA	
R11	4	2007-000070	R-CHIP	1	SNA	
R11	4	2007-000070	R-CHIP	1	SNA	
R218	4	2007-000070	R-CHIP	1	SNA	
R218	4	2007-000070	R-CHIP	1	SNA	
R519	4	2007-000070	R-CHIP	1	SNA	
R519	4	2007-000070	R-CHIP	1	SNA	
R558	4	2007-000070	R-CHIP	1	SNA	
R558	4	2007-000070	R-CHIP	1	SNA	
R573	4	2007-000070	R-CHIP	1	SNA	
R573	4	2007-000070	R-CHIP	1	SNA	
R608	4	2007-000070	R-CHIP	1	SNA	
R608	4	2007-000070	R-CHIP	1	SNA	
R609	4	2007-000070	R-CHIP	1	SNA	
R609	4	2007-000070	R-CHIP	1	SNA	
R610	4	2007-000070	R-CHIP	1	SNA	
R610	4	2007-000070	R-CHIP	1	SNA	
R611	4	2007-000070	R-CHIP	1	SNA	
R611	4	2007-000070	R-CHIP	1	SNA	
R612	4	2007-000070	R-CHIP	1	SNA	
R612	4	2007-000070	R-CHIP	1	SNA	
R637	4	2007-000070	R-CHIP	1	SNA	
R637	4	2007-000070	R-CHIP	1	SNA	
R640	4	2007-000070	R-CHIP	1	SNA	
R640	4	2007-000070	R-CHIP	1	SNA	
R693	4	2007-000070	R-CHIP	1	SNA	
R693	4	2007-000070	R-CHIP	1	SNA	
R708	4	2007-000070	R-CHIP	1	SNA	
R708	4	2007-000070	R-CHIP	1	SNA	
R756	4	2007-000070	R-CHIP	1	SNA	
R756	4	2007-000070	R-CHIP	1	SNA	
R757	4	2007-000070	R-CHIP	1	SNA	
R757	4	2007-000070	R-CHIP	1	SNA	
R790	4	2007-000070	R-CHIP	1	SNA	
R790	4	2007-000070	R-CHIP	1	SNA	
R900	4	2007-000070	R-CHIP	1	SNA	
R900	4	2007-000070	R-CHIP	1	SNA	
R181	4	2007-000077	R-CHIP	1	SNA	
R181	4	2007-000077	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R186	4	2007-000141	R-CHIP	1	SNA	
R186	4	2007-000141	R-CHIP	1	SNA	
R188	4	2007-000141	R-CHIP	1	SNA	
R188	4	2007-000141	R-CHIP	1	SNA	
R60	4	2007-000141	R-CHIP	1	SNA	
R60	4	2007-000141	R-CHIP	1	SNA	
R61	4	2007-000141	R-CHIP	1	SNA	
R61	4	2007-000141	R-CHIP	1	SNA	
R62	4	2007-000141	R-CHIP	1	SNA	
R62	4	2007-000141	R-CHIP	1	SNA	
R739	4	2007-000141	R-CHIP	1	SNA	
R739	4	2007-000141	R-CHIP	1	SNA	
R742	4	2007-000141	R-CHIP	1	SNA	
R742	4	2007-000141	R-CHIP	1	SNA	
R111	4	2007-000143	R-CHIP	1	SNA	
R111	4	2007-000143	R-CHIP	1	SNA	
R228	4	2007-000143	R-CHIP	1	SNA	
R228	4	2007-000143	R-CHIP	1	SNA	
R229	4	2007-000143	R-CHIP	1	SNA	
R229	4	2007-000143	R-CHIP	1	SNA	
R506	4	2007-000143	R-CHIP	1	SNA	
R506	4	2007-000143	R-CHIP	1	SNA	
R507	4	2007-000143	R-CHIP	1	SNA	
R507	4	2007-000143	R-CHIP	1	SNA	
R512	4	2007-000143	R-CHIP	1	SNA	
R512	4	2007-000143	R-CHIP	1	SNA	
R513	4	2007-000143	R-CHIP	1	SNA	
R513	4	2007-000143	R-CHIP	1	SNA	
R517	4	2007-000143	R-CHIP	1	SNA	
R517	4	2007-000143	R-CHIP	1	SNA	
R518	4	2007-000143	R-CHIP	1	SNA	
R518	4	2007-000143	R-CHIP	1	SNA	
R684	4	2007-000143	R-CHIP	1	SNA	
R684	4	2007-000143	R-CHIP	1	SNA	
R7	4	2007-000143	R-CHIP	1	SNA	
R7	4	2007-000143	R-CHIP	1	SNA	
R76	4	2007-000143	R-CHIP	1	SNA	
R76	4	2007-000143	R-CHIP	1	SNA	
R78	4	2007-000143	R-CHIP	1	SNA	
R78	4	2007-000143	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R79	4	2007-000143	R-CHIP	1	SNA	
R79	4	2007-000143	R-CHIP	1	SNA	
R8	4	2007-000143	R-CHIP	1	SNA	
R8	4	2007-000143	R-CHIP	1	SNA	
R81	4	2007-000143	R-CHIP	1	SNA	
R81	4	2007-000143	R-CHIP	1	SNA	
R84	4	2007-000143	R-CHIP	1	SNA	
R84	4	2007-000143	R-CHIP	1	SNA	
R85	4	2007-000143	R-CHIP	1	SNA	
R85	4	2007-000143	R-CHIP	1	SNA	
R86	4	2007-000143	R-CHIP	1	SNA	
R86	4	2007-000143	R-CHIP	1	SNA	
R5	4	2007-000146	R-CHIP	1	SNA	
R5	4	2007-000146	R-CHIP	1	SNA	
R6	4	2007-000146	R-CHIP	1	SNA	
R6	4	2007-000146	R-CHIP	1	SNA	
R675	4	2007-000147	R-CHIP	1	SNA	
R675	4	2007-000147	R-CHIP	1	SNA	
R758	4	2007-000147	R-CHIP	1	SNA	
R758	4	2007-000147	R-CHIP	1	SNA	
R156	4	2007-000148	R-CHIP	1	SNA	
R156	4	2007-000148	R-CHIP	1	SNA	
R174	4	2007-000148	R-CHIP	1	SNA	
R174	4	2007-000148	R-CHIP	1	SNA	
R206	4	2007-000148	R-CHIP	1	SNA	
R206	4	2007-000148	R-CHIP	1	SNA	
R222	4	2007-000148	R-CHIP	1	SNA	
R222	4	2007-000148	R-CHIP	1	SNA	
R223	4	2007-000148	R-CHIP	1	SNA	
R223	4	2007-000148	R-CHIP	1	SNA	
R224	4	2007-000148	R-CHIP	1	SNA	
R224	4	2007-000148	R-CHIP	1	SNA	
R225	4	2007-000148	R-CHIP	1	SNA	
R225	4	2007-000148	R-CHIP	1	SNA	
R226	4	2007-000148	R-CHIP	1	SNA	
R226	4	2007-000148	R-CHIP	1	SNA	
R227	4	2007-000148	R-CHIP	1	SNA	
R227	4	2007-000148	R-CHIP	1	SNA	
R231	4	2007-000148	R-CHIP	1	SNA	
R231	4	2007-000148	R-CHIP	1	SNA	

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R248	4	2007-000148	R-CHIP	1	SNA	
R248	4	2007-000148	R-CHIP	1	SNA	
R262	4	2007-000148	R-CHIP	1	SNA	
R262	4	2007-000148	R-CHIP	1	SNA	
R263	4	2007-000148	R-CHIP	1	SNA	
R263	4	2007-000148	R-CHIP	1	SNA	
R264	4	2007-000148	R-CHIP	1	SNA	
R264	4	2007-000148	R-CHIP	1	SNA	
R511	4	2007-000148	R-CHIP	1	SNA	
R511	4	2007-000148	R-CHIP	1	SNA	
R52	4	2007-000148	R-CHIP	1	SNA	
R52	4	2007-000148	R-CHIP	1	SNA	
R578	4	2007-000148	R-CHIP	1	SNA	
R578	4	2007-000148	R-CHIP	1	SNA	
R617	4	2007-000148	R-CHIP	1	SNA	
R617	4	2007-000148	R-CHIP	1	SNA	
R621	4	2007-000148	R-CHIP	1	SNA	
R621	4	2007-000148	R-CHIP	1	SNA	
R672	4	2007-000148	R-CHIP	1	SNA	
R672	4	2007-000148	R-CHIP	1	SNA	
R692	4	2007-000148	R-CHIP	1	SNA	
R692	4	2007-000148	R-CHIP	1	SNA	
R694	4	2007-000148	R-CHIP	1	SNA	
R694	4	2007-000148	R-CHIP	1	SNA	
R698	4	2007-000148	R-CHIP	1	SNA	
R698	4	2007-000148	R-CHIP	1	SNA	
R727	4	2007-000148	R-CHIP	1	SNA	
R727	4	2007-000148	R-CHIP	1	SNA	
R728	4	2007-000148	R-CHIP	1	SNA	
R728	4	2007-000148	R-CHIP	1	SNA	
R733	4	2007-000148	R-CHIP	1	SNA	
R733	4	2007-000148	R-CHIP	1	SNA	
R746	4	2007-000148	R-CHIP	1	SNA	
R746	4	2007-000148	R-CHIP	1	SNA	
R747	4	2007-000148	R-CHIP	1	SNA	
R747	4	2007-000148	R-CHIP	1	SNA	
R762	4	2007-000148	R-CHIP	1	SNA	
R762	4	2007-000148	R-CHIP	1	SNA	
R764	4	2007-000148	R-CHIP	1	SNA	
R764	4	2007-000148	R-CHIP	1	SNA	

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R766	4	2007-000148	R-CHIP	1	SNA	
R766	4	2007-000148	R-CHIP	1	SNA	
R770	4	2007-000148	R-CHIP	1	SNA	
R770	4	2007-000148	R-CHIP	1	SNA	
R772	4	2007-000148	R-CHIP	1	SNA	
R772	4	2007-000148	R-CHIP	1	SNA	
R761	4	2007-000156	R-CHIP	1	SNA	
R761	4	2007-000156	R-CHIP	1	SNA	
R271	4	2007-000157	R-CHIP	1	SNA	
R271	4	2007-000157	R-CHIP	1	SNA	
R641	4	2007-000157	R-CHIP	1	SNA	
R641	4	2007-000157	R-CHIP	1	SNA	
R695	4	2007-000157	R-CHIP	1	SNA	
R695	4	2007-000157	R-CHIP	1	SNA	
R230	4	2007-000162	R-CHIP	1	SNA	
R230	4	2007-000162	R-CHIP	1	SNA	
R232	4	2007-000162	R-CHIP	1	SNA	
R232	4	2007-000162	R-CHIP	1	SNA	
R510	4	2007-000162	R-CHIP	1	SNA	
R510	4	2007-000162	R-CHIP	1	SNA	
R629	4	2007-000162	R-CHIP	1	SNA	
R629	4	2007-000162	R-CHIP	1	SNA	
R680	4	2007-000162	R-CHIP	1	SNA	
R680	4	2007-000162	R-CHIP	1	SNA	
R681	4	2007-000162	R-CHIP	1	SNA	
R681	4	2007-000162	R-CHIP	1	SNA	
R794	4	2007-000162	R-CHIP	1	SNA	
R794	4	2007-000162	R-CHIP	1	SNA	
R19	4	2007-000168	R-CHIP	1	SNA	
R19	4	2007-000168	R-CHIP	1	SNA	
R531	4	2007-000168	R-CHIP	1	SNA	
R531	4	2007-000168	R-CHIP	1	SNA	
R566	4	2007-000168	R-CHIP	1	SNA	
R566	4	2007-000168	R-CHIP	1	SNA	
R719	4	2007-000168	R-CHIP	1	SNA	
R719	4	2007-000168	R-CHIP	1	SNA	
R748	4	2007-000168	R-CHIP	1	SNA	
R748	4	2007-000168	R-CHIP	1	SNA	
R774	4	2007-000170	R-CHIP	1	SNA	
R774	4	2007-000170	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R13	4	2007-000171	R-CHIP	1	SNA	
R13	4	2007-000171	R-CHIP	1	SNA	
R184	4	2007-000171	R-CHIP	1	SNA	
R184	4	2007-000171	R-CHIP	1	SNA	
R190	4	2007-000171	R-CHIP	1	SNA	
R190	4	2007-000171	R-CHIP	1	SNA	
R191	4	2007-000171	R-CHIP	1	SNA	
R191	4	2007-000171	R-CHIP	1	SNA	
R193	4	2007-000171	R-CHIP	1	SNA	
R193	4	2007-000171	R-CHIP	1	SNA	
R194	4	2007-000171	R-CHIP	1	SNA	
R194	4	2007-000171	R-CHIP	1	SNA	
R214	4	2007-000171	R-CHIP	1	SNA	
R214	4	2007-000171	R-CHIP	1	SNA	
R275	4	2007-000171	R-CHIP	1	SNA	
R275	4	2007-000171	R-CHIP	1	SNA	
R277	4	2007-000171	R-CHIP	1	SNA	
R277	4	2007-000171	R-CHIP	1	SNA	
R28	4	2007-000171	R-CHIP	1	SNA	
R28	4	2007-000171	R-CHIP	1	SNA	
R525	4	2007-000171	R-CHIP	1	SNA	
R525	4	2007-000171	R-CHIP	1	SNA	
R65	4	2007-000171	R-CHIP	1	SNA	
R65	4	2007-000171	R-CHIP	1	SNA	
R687	4	2007-000171	R-CHIP	1	SNA	
R687	4	2007-000171	R-CHIP	1	SNA	
R70	4	2007-000171	R-CHIP	1	SNA	
R70	4	2007-000171	R-CHIP	1	SNA	
R721	4	2007-000171	R-CHIP	1	SNA	
R721	4	2007-000171	R-CHIP	1	SNA	
R779	4	2007-000171	R-CHIP	1	SNA	
R779	4	2007-000171	R-CHIP	1	SNA	
R80	4	2007-000171	R-CHIP	1	SNA	
R80	4	2007-000171	R-CHIP	1	SNA	
R83	4	2007-000171	R-CHIP	1	SNA	
R83	4	2007-000171	R-CHIP	1	SNA	
R901	4	2007-000171	R-CHIP	1	SNA	
R901	4	2007-000171	R-CHIP	1	SNA	
R902	4	2007-000171	R-CHIP	1	SNA	
R902	4	2007-000171	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R903	4	2007-000171	R-CHIP	1	SNA	
R903	4	2007-000171	R-CHIP	1	SNA	
R250	4	2007-000173	R-CHIP	1	SNA	
R250	4	2007-000173	R-CHIP	1	SNA	
R251	4	2007-000173	R-CHIP	1	SNA	
R251	4	2007-000173	R-CHIP	1	SNA	
R755	4	2007-000173	R-CHIP	1	SNA	
R755	4	2007-000173	R-CHIP	1	SNA	
R198	4	2007-000309	R-CHIP	1	SA	
R198	4	2007-000309	R-CHIP	1	SA	
R199	4	2007-000309	R-CHIP	1	SA	
R199	4	2007-000309	R-CHIP	1	SA	
R260	4	2007-000309	R-CHIP	1	SA	
R260	4	2007-000309	R-CHIP	1	SA	
R557	4	2007-000309	R-CHIP	1	SA	
R557	4	2007-000309	R-CHIP	1	SA	
R738	4	2007-000309	R-CHIP	1	SA	
R738	4	2007-000309	R-CHIP	1	SA	
R167	4	2007-000539	R-CHIP	1	SNA	
R167	4	2007-000539	R-CHIP	1	SNA	
R183	4	2007-000539	R-CHIP	1	SNA	
R183	4	2007-000539	R-CHIP	1	SNA	
R197	4	2007-000695	R-CHIP	1	SNA	
R197	4	2007-000695	R-CHIP	1	SNA	
R234	4	2007-000695	R-CHIP	1	SNA	
R234	4	2007-000695	R-CHIP	1	SNA	
R239	4	2007-000695	R-CHIP	1	SNA	
R239	4	2007-000695	R-CHIP	1	SNA	
R46	4	2007-000695	R-CHIP	1	SNA	
R46	4	2007-000695	R-CHIP	1	SNA	
R645	4	2007-000695	R-CHIP	1	SNA	
R645	4	2007-000695	R-CHIP	1	SNA	
R760	4	2007-000695	R-CHIP	1	SNA	
R760	4	2007-000695	R-CHIP	1	SNA	
R776	4	2007-000695	R-CHIP	1	SNA	
R776	4	2007-000695	R-CHIP	1	SNA	
R781	4	2007-000736	R-CHIP	1	SNA	
R781	4	2007-000736	R-CHIP	1	SNA	
R273	4	2007-000972	R-CHIP	1	SA	
R273	4	2007-000972	R-CHIP	1	SA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R724	4	2007-001038	R-CHIP	1	SNA	
R724	4	2007-001038	R-CHIP	1	SNA	
R177	4	2007-001044	R-CHIP	1	SNA	
R177	4	2007-001044	R-CHIP	1	SNA	
R607	4	2007-001044	R-CHIP	1	SNA	
R607	4	2007-001044	R-CHIP	1	SNA	
R196	4	2007-001139	R-CHIP	1	SNA	
R196	4	2007-001139	R-CHIP	1	SNA	
R237	4	2007-001139	R-CHIP	1	SNA	
R237	4	2007-001139	R-CHIP	1	SNA	
R648	4	2007-001139	R-CHIP	1	SNA	
R648	4	2007-001139	R-CHIP	1	SNA	
R782	4	2007-001139	R-CHIP	1	SNA	
R782	4	2007-001139	R-CHIP	1	SNA	
R170	4	2007-001292	R-CHIP	1	SNA	
R170	4	2007-001292	R-CHIP	1	SNA	
R176	4	2007-001292	R-CHIP	1	SNA	
R176	4	2007-001292	R-CHIP	1	SNA	
R267	4	2007-001292	R-CHIP	1	SNA	
R267	4	2007-001292	R-CHIP	1	SNA	
R31	4	2007-001292	R-CHIP	1	SNA	
R31	4	2007-001292	R-CHIP	1	SNA	
R32	4	2007-001292	R-CHIP	1	SNA	
R32	4	2007-001292	R-CHIP	1	SNA	
R33	4	2007-001292	R-CHIP	1	SNA	
R33	4	2007-001292	R-CHIP	1	SNA	
R34	4	2007-001292	R-CHIP	1	SNA	
R34	4	2007-001292	R-CHIP	1	SNA	
R36	4	2007-001292	R-CHIP	1	SNA	
R36	4	2007-001292	R-CHIP	1	SNA	
R37	4	2007-001292	R-CHIP	1	SNA	
R37	4	2007-001292	R-CHIP	1	SNA	
R38	4	2007-001292	R-CHIP	1	SNA	
R38	4	2007-001292	R-CHIP	1	SNA	
R39	4	2007-001292	R-CHIP	1	SNA	
R39	4	2007-001292	R-CHIP	1	SNA	
R40	4	2007-001292	R-CHIP	1	SNA	
R40	4	2007-001292	R-CHIP	1	SNA	
R41	4	2007-001292	R-CHIP	1	SNA	
R41	4	2007-001292	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R42	4	2007-001292	R-CHIP	1	SNA	
R42	4	2007-001292	R-CHIP	1	SNA	
R43	4	2007-001292	R-CHIP	1	SNA	
R43	4	2007-001292	R-CHIP	1	SNA	
R44	4	2007-001292	R-CHIP	1	SNA	
R44	4	2007-001292	R-CHIP	1	SNA	
R45	4	2007-001292	R-CHIP	1	SNA	
R45	4	2007-001292	R-CHIP	1	SNA	
R57	4	2007-001292	R-CHIP	1	SNA	
R57	4	2007-001292	R-CHIP	1	SNA	
R58	4	2007-001292	R-CHIP	1	SNA	
R58	4	2007-001292	R-CHIP	1	SNA	
R59	4	2007-001292	R-CHIP	1	SNA	
R59	4	2007-001292	R-CHIP	1	SNA	
R63	4	2007-001292	R-CHIP	1	SNA	
R63	4	2007-001292	R-CHIP	1	SNA	
R64	4	2007-001292	R-CHIP	1	SNA	
R64	4	2007-001292	R-CHIP	1	SNA	
R66	4	2007-001292	R-CHIP	1	SNA	
R66	4	2007-001292	R-CHIP	1	SNA	
R67	4	2007-001292	R-CHIP	1	SNA	
R67	4	2007-001292	R-CHIP	1	SNA	
R701	4	2007-001292	R-CHIP	1	SNA	
R701	4	2007-001292	R-CHIP	1	SNA	
R703	4	2007-001292	R-CHIP	1	SNA	
R703	4	2007-001292	R-CHIP	1	SNA	
R705	4	2007-001292	R-CHIP	1	SNA	
R705	4	2007-001292	R-CHIP	1	SNA	
R707	4	2007-001292	R-CHIP	1	SNA	
R707	4	2007-001292	R-CHIP	1	SNA	
R709	4	2007-001292	R-CHIP	1	SNA	
R709	4	2007-001292	R-CHIP	1	SNA	
R711	4	2007-001292	R-CHIP	1	SNA	
R711	4	2007-001292	R-CHIP	1	SNA	
R712	4	2007-001292	R-CHIP	1	SNA	
R712	4	2007-001292	R-CHIP	1	SNA	
R713	4	2007-001292	R-CHIP	1	SNA	
R713	4	2007-001292	R-CHIP	1	SNA	
R714	4	2007-001292	R-CHIP	1	SNA	
R714	4	2007-001292	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R715	4	2007-001292	R-CHIP	1	SNA	
R715	4	2007-001292	R-CHIP	1	SNA	
R266	4	2007-001313	R-CHIP	1	SNA	
R266	4	2007-001313	R-CHIP	1	SNA	
R173	4	2007-002910	R-CHIP	1	SNA	
R173	4	2007-002910	R-CHIP	1	SNA	
R215	4	2007-002910	R-CHIP	1	SNA	
R215	4	2007-002910	R-CHIP	1	SNA	
R26	4	2007-002910	R-CHIP	1	SNA	
R26	4	2007-002910	R-CHIP	1	SNA	
R528	4	2007-002910	R-CHIP	1	SNA	
R528	4	2007-002910	R-CHIP	1	SNA	
R636	4	2007-002910	R-CHIP	1	SNA	
R636	4	2007-002910	R-CHIP	1	SNA	
R717	4	2007-002910	R-CHIP	1	SNA	
R717	4	2007-002910	R-CHIP	1	SNA	
R25	4	2007-002918	R-CHIP	1	SNA	
R25	4	2007-002918	R-CHIP	1	SNA	
R509	4	2007-002918	R-CHIP	1	SNA	
R509	4	2007-002918	R-CHIP	1	SNA	
R100	4	2007-002970	R-CHIP	1	SNA	
R100	4	2007-002970	R-CHIP	1	SNA	
R101	4	2007-002970	R-CHIP	1	SNA	
R101	4	2007-002970	R-CHIP	1	SNA	
R102	4	2007-002970	R-CHIP	1	SNA	
R102	4	2007-002970	R-CHIP	1	SNA	
R103	4	2007-002970	R-CHIP	1	SNA	
R103	4	2007-002970	R-CHIP	1	SNA	
R104	4	2007-002970	R-CHIP	1	SNA	
R104	4	2007-002970	R-CHIP	1	SNA	
R105	4	2007-002970	R-CHIP	1	SNA	
R105	4	2007-002970	R-CHIP	1	SNA	
R112	4	2007-002970	R-CHIP	1	SNA	
R112	4	2007-002970	R-CHIP	1	SNA	
R113	4	2007-002970	R-CHIP	1	SNA	
R113	4	2007-002970	R-CHIP	1	SNA	
R114	4	2007-002970	R-CHIP	1	SNA	
R114	4	2007-002970	R-CHIP	1	SNA	
R115	4	2007-002970	R-CHIP	1	SNA	
R115	4	2007-002970	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R116	4	2007-002970	R-CHIP	1	SNA	
R116	4	2007-002970	R-CHIP	1	SNA	
R117	4	2007-002970	R-CHIP	1	SNA	
R117	4	2007-002970	R-CHIP	1	SNA	
R118	4	2007-002970	R-CHIP	1	SNA	
R118	4	2007-002970	R-CHIP	1	SNA	
R119	4	2007-002970	R-CHIP	1	SNA	
R119	4	2007-002970	R-CHIP	1	SNA	
R120	4	2007-002970	R-CHIP	1	SNA	
R120	4	2007-002970	R-CHIP	1	SNA	
R121	4	2007-002970	R-CHIP	1	SNA	
R121	4	2007-002970	R-CHIP	1	SNA	
R122	4	2007-002970	R-CHIP	1	SNA	
R122	4	2007-002970	R-CHIP	1	SNA	
R123	4	2007-002970	R-CHIP	1	SNA	
R123	4	2007-002970	R-CHIP	1	SNA	
R124	4	2007-002970	R-CHIP	1	SNA	
R124	4	2007-002970	R-CHIP	1	SNA	
R125	4	2007-002970	R-CHIP	1	SNA	
R125	4	2007-002970	R-CHIP	1	SNA	
R126	4	2007-002970	R-CHIP	1	SNA	
R126	4	2007-002970	R-CHIP	1	SNA	
R127	4	2007-002970	R-CHIP	1	SNA	
R127	4	2007-002970	R-CHIP	1	SNA	
R128	4	2007-002970	R-CHIP	1	SNA	
R128	4	2007-002970	R-CHIP	1	SNA	
R129	4	2007-002970	R-CHIP	1	SNA	
R129	4	2007-002970	R-CHIP	1	SNA	
R130	4	2007-002970	R-CHIP	1	SNA	
R130	4	2007-002970	R-CHIP	1	SNA	
R131	4	2007-002970	R-CHIP	1	SNA	
R131	4	2007-002970	R-CHIP	1	SNA	
R132	4	2007-002970	R-CHIP	1	SNA	
R132	4	2007-002970	R-CHIP	1	SNA	
R133	4	2007-002970	R-CHIP	1	SNA	
R133	4	2007-002970	R-CHIP	1	SNA	
R134	4	2007-002970	R-CHIP	1	SNA	
R134	4	2007-002970	R-CHIP	1	SNA	
R135	4	2007-002970	R-CHIP	1	SNA	
R135	4	2007-002970	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R136	4	2007-002970	R-CHIP	1	SNA	
R136	4	2007-002970	R-CHIP	1	SNA	
R137	4	2007-002970	R-CHIP	1	SNA	
R137	4	2007-002970	R-CHIP	1	SNA	
R168	4	2007-002970	R-CHIP	1	SNA	
R168	4	2007-002970	R-CHIP	1	SNA	
R169	4	2007-002970	R-CHIP	1	SNA	
R169	4	2007-002970	R-CHIP	1	SNA	
R179	4	2007-002970	R-CHIP	1	SNA	
R179	4	2007-002970	R-CHIP	1	SNA	
R180	4	2007-002970	R-CHIP	1	SNA	
R180	4	2007-002970	R-CHIP	1	SNA	
R580	4	2007-002970	R-CHIP	1	SNA	
R580	4	2007-002970	R-CHIP	1	SNA	
R581	4	2007-002970	R-CHIP	1	SNA	
R581	4	2007-002970	R-CHIP	1	SNA	
R582	4	2007-002970	R-CHIP	1	SNA	
R582	4	2007-002970	R-CHIP	1	SNA	
R583	4	2007-002970	R-CHIP	1	SNA	
R583	4	2007-002970	R-CHIP	1	SNA	
R584	4	2007-002970	R-CHIP	1	SNA	
R584	4	2007-002970	R-CHIP	1	SNA	
R589	4	2007-002970	R-CHIP	1	SNA	
R589	4	2007-002970	R-CHIP	1	SNA	
R590	4	2007-002970	R-CHIP	1	SNA	
R590	4	2007-002970	R-CHIP	1	SNA	
R591	4	2007-002970	R-CHIP	1	SNA	
R591	4	2007-002970	R-CHIP	1	SNA	
R592	4	2007-002970	R-CHIP	1	SNA	
R592	4	2007-002970	R-CHIP	1	SNA	
R593	4	2007-002970	R-CHIP	1	SNA	
R593	4	2007-002970	R-CHIP	1	SNA	
R594	4	2007-002970	R-CHIP	1	SNA	
R594	4	2007-002970	R-CHIP	1	SNA	
R595	4	2007-002970	R-CHIP	1	SNA	
R595	4	2007-002970	R-CHIP	1	SNA	
R596	4	2007-002970	R-CHIP	1	SNA	
R596	4	2007-002970	R-CHIP	1	SNA	
R763	4	2007-002970	R-CHIP	1	SNA	
R763	4	2007-002970	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R765	4	2007-002970	R-CHIP	1	SNA	
R765	4	2007-002970	R-CHIP	1	SNA	
R767	4	2007-002970	R-CHIP	1	SNA	
R767	4	2007-002970	R-CHIP	1	SNA	
R768	4	2007-002970	R-CHIP	1	SNA	
R768	4	2007-002970	R-CHIP	1	SNA	
R91	4	2007-002970	R-CHIP	1	SNA	
R91	4	2007-002970	R-CHIP	1	SNA	
R92	4	2007-002970	R-CHIP	1	SNA	
R92	4	2007-002970	R-CHIP	1	SNA	
R93	4	2007-002970	R-CHIP	1	SNA	
R93	4	2007-002970	R-CHIP	1	SNA	
R94	4	2007-002970	R-CHIP	1	SNA	
R94	4	2007-002970	R-CHIP	1	SNA	
R95	4	2007-002970	R-CHIP	1	SNA	
R95	4	2007-002970	R-CHIP	1	SNA	
R96	4	2007-002970	R-CHIP	1	SNA	
R96	4	2007-002970	R-CHIP	1	SNA	
R97	4	2007-002970	R-CHIP	1	SNA	
R97	4	2007-002970	R-CHIP	1	SNA	
R98	4	2007-002970	R-CHIP	1	SNA	
R98	4	2007-002970	R-CHIP	1	SNA	
R99	4	2007-002970	R-CHIP	1	SNA	
R99	4	2007-002970	R-CHIP	1	SNA	
R523	4	2007-007046	R-CHIP	1	SNA	
R523	4	2007-007046	R-CHIP	1	SNA	
R673	4	2007-007100	R-CHIP	1	SNA	
R673	4	2007-007100	R-CHIP	1	SNA	
R17	4	2007-007107	R-CHIP	1	SNA	
R17	4	2007-007107	R-CHIP	1	SNA	
R21	4	2007-007107	R-CHIP	1	SNA	
R21	4	2007-007107	R-CHIP	1	SNA	
R529	4	2007-007107	R-CHIP	1	SNA	
R69	4	2007-007107	R-CHIP	1	SNA	
R69	4	2007-007107	R-CHIP	1	SNA	
R718	4	2007-007107	R-CHIP	1	SNA	
R718	4	2007-007107	R-CHIP	1	SNA	
R759	4	2007-007107	R-CHIP	1	SNA	
R759	4	2007-007107	R-CHIP	1	SNA	
R777	4	2007-007107	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R777	4	2007-007107	R-CHIP	1	SNA	
R787	4	2007-007107	R-CHIP	1	SNA	
R787	4	2007-007107	R-CHIP	1	SNA	
R536	4	2007-007108	R-CHIP	1	SNA	
R536	4	2007-007108	R-CHIP	1	SNA	
R635	4	2007-007108	R-CHIP	1	SNA	
R635	4	2007-007108	R-CHIP	1	SNA	
R785	4	2007-007108	R-CHIP	1	SNA	
R785	4	2007-007108	R-CHIP	1	SNA	
R272	4	2007-007131	R-CHIP	1	SNA	
R272	4	2007-007131	R-CHIP	1	SNA	
R23	4	2007-007142	R-CHIP	1	SNA	
R23	4	2007-007142	R-CHIP	1	SNA	
R235	4	2007-007142	R-CHIP	1	SNA	
R235	4	2007-007142	R-CHIP	1	SNA	
R236	4	2007-007142	R-CHIP	1	SNA	
R236	4	2007-007142	R-CHIP	1	SNA	
R24	4	2007-007142	R-CHIP	1	SNA	
R24	4	2007-007142	R-CHIP	1	SNA	
R256	4	2007-007142	R-CHIP	1	SNA	
R256	4	2007-007142	R-CHIP	1	SNA	
R268	4	2007-007142	R-CHIP	1	SNA	
R268	4	2007-007142	R-CHIP	1	SNA	
R29	4	2007-007142	R-CHIP	1	SNA	
R29	4	2007-007142	R-CHIP	1	SNA	
R532	4	2007-007142	R-CHIP	1	SNA	
R532	4	2007-007142	R-CHIP	1	SNA	
R534	4	2007-007142	R-CHIP	1	SNA	
R534	4	2007-007142	R-CHIP	1	SNA	
R688	4	2007-007142	R-CHIP	1	SNA	
R688	4	2007-007142	R-CHIP	1	SNA	
R690	4	2007-007142	R-CHIP	1	SNA	
R690	4	2007-007142	R-CHIP	1	SNA	
R743	4	2007-007142	R-CHIP	1	SNA	
R743	4	2007-007142	R-CHIP	1	SNA	
R749	4	2007-007142	R-CHIP	1	SNA	
R749	4	2007-007142	R-CHIP	1	SNA	
R786	4	2007-007142	R-CHIP	1	SNA	
R786	4	2007-007142	R-CHIP	1	SNA	
R504	4	2007-007226	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R504	4	2007-007226	R-CHIP	1	SNA	
R505	4	2007-007226	R-CHIP	1	SNA	
R505	4	2007-007226	R-CHIP	1	SNA	
R515	4	2007-007226	R-CHIP	1	SNA	
R515	4	2007-007226	R-CHIP	1	SNA	
R516	4	2007-007226	R-CHIP	1	SNA	
R516	4	2007-007226	R-CHIP	1	SNA	
R569	4	2007-007226	R-CHIP	1	SNA	
R569	4	2007-007226	R-CHIP	1	SNA	
R574	4	2007-007226	R-CHIP	1	SNA	
R574	4	2007-007226	R-CHIP	1	SNA	
R745	4	2007-007226	R-CHIP	1	SNA	
R745	4	2007-007226	R-CHIP	1	SNA	
R87	4	2007-007228	R-CHIP	1	SNA	
R87	4	2007-007228	R-CHIP	1	SNA	
R108	4	2007-007302	R-CHIP	1	SNA	
R108	4	2007-007302	R-CHIP	1	SNA	
R140	4	2007-007306	R-CHIP	1	SNA	
R140	4	2007-007306	R-CHIP	1	SNA	
R143	4	2007-007306	R-CHIP	1	SNA	
R143	4	2007-007306	R-CHIP	1	SNA	
R20	4	2007-007306	R-CHIP	1	SNA	
R20	4	2007-007306	R-CHIP	1	SNA	
R524	4	2007-007306	R-CHIP	1	SNA	
R524	4	2007-007306	R-CHIP	1	SNA	
R613	4	2007-007306	R-CHIP	1	SNA	
R613	4	2007-007306	R-CHIP	1	SNA	
R644	4	2007-007306	R-CHIP	1	SNA	
R644	4	2007-007306	R-CHIP	1	SNA	
R769	4	2007-007306	R-CHIP	1	SNA	
R769	4	2007-007306	R-CHIP	1	SNA	
R773	4	2007-007306	R-CHIP	1	SNA	
R773	4	2007-007306	R-CHIP	1	SNA	
R501	4	2007-007307	R-CHIP	1	SNA	
R501	4	2007-007307	R-CHIP	1	SNA	
R502	4	2007-007307	R-CHIP	1	SNA	
R502	4	2007-007307	R-CHIP	1	SNA	
R503	4	2007-007307	R-CHIP	1	SNA	
R503	4	2007-007307	R-CHIP	1	SNA	
R771	4	2007-007307	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R771	4	2007-007307	R-CHIP	1	SNA	
R88	4	2007-007307	R-CHIP	1	SNA	
R88	4	2007-007307	R-CHIP	1	SNA	
R89	4	2007-007307	R-CHIP	1	SNA	
R89	4	2007-007307	R-CHIP	1	SNA	
R90	4	2007-007307	R-CHIP	1	SNA	
R90	4	2007-007307	R-CHIP	1	SNA	
R178	4	2007-007312	R-CHIP	1	SNA	
R178	4	2007-007312	R-CHIP	1	SNA	
R50	4	2007-007312	R-CHIP	1	SNA	
R50	4	2007-007312	R-CHIP	1	SNA	
R500	4	2007-007312	R-CHIP	1	SNA	
R500	4	2007-007312	R-CHIP	1	SNA	
R526	4	2007-007312	R-CHIP	1	SNA	
R526	4	2007-007312	R-CHIP	1	SNA	
R535	4	2007-007312	R-CHIP	1	SNA	
R535	4	2007-007312	R-CHIP	1	SNA	
R605	4	2007-007312	R-CHIP	1	SNA	
R605	4	2007-007312	R-CHIP	1	SNA	
R638	4	2007-007312	R-CHIP	1	SNA	
R638	4	2007-007312	R-CHIP	1	SNA	
R741	4	2007-007312	R-CHIP	1	SNA	
R741	4	2007-007312	R-CHIP	1	SNA	
R744	4	2007-007312	R-CHIP	1	SNA	
R744	4	2007-007312	R-CHIP	1	SNA	
R752	4	2007-007312	R-CHIP	1	SNA	
R752	4	2007-007312	R-CHIP	1	SNA	
R82	4	2007-007312	R-CHIP	1	SNA	
R82	4	2007-007312	R-CHIP	1	SNA	
R150	4	2007-007318	R-CHIP	1	SNA	
R150	4	2007-007318	R-CHIP	1	SNA	
R269	4	2007-007318	R-CHIP	1	SNA	
R269	4	2007-007318	R-CHIP	1	SNA	
R270	4	2007-007318	R-CHIP	1	SNA	
R270	4	2007-007318	R-CHIP	1	SNA	
R30	4	2007-007318	R-CHIP	1	SNA	
R30	4	2007-007318	R-CHIP	1	SNA	
R552	4	2007-007318	R-CHIP	1	SNA	
R552	4	2007-007318	R-CHIP	1	SNA	
R597	4	2007-007318	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R597	4	2007-007318	R-CHIP	1	SNA	
R598	4	2007-007318	R-CHIP	1	SNA	
R598	4	2007-007318	R-CHIP	1	SNA	
R616	4	2007-007318	R-CHIP	1	SNA	
R616	4	2007-007318	R-CHIP	1	SNA	
R630	4	2007-007318	R-CHIP	1	SNA	
R630	4	2007-007318	R-CHIP	1	SNA	
R632	4	2007-007318	R-CHIP	1	SNA	
R632	4	2007-007318	R-CHIP	1	SNA	
R634	4	2007-007318	R-CHIP	1	SNA	
R634	4	2007-007318	R-CHIP	1	SNA	
R674	4	2007-007318	R-CHIP	1	SNA	
R674	4	2007-007318	R-CHIP	1	SNA	
R678	4	2007-007318	R-CHIP	1	SNA	
R678	4	2007-007318	R-CHIP	1	SNA	
R722	4	2007-007318	R-CHIP	1	SNA	
R722	4	2007-007318	R-CHIP	1	SNA	
R750	4	2007-007318	R-CHIP	1	SNA	
R750	4	2007-007318	R-CHIP	1	SNA	
R751	4	2007-007318	R-CHIP	1	SNA	
R751	4	2007-007318	R-CHIP	1	SNA	
R753	4	2007-007318	R-CHIP	1	SNA	
R753	4	2007-007318	R-CHIP	1	SNA	
R9	4	2007-007318	R-CHIP	1	SNA	
R9	4	2007-007318	R-CHIP	1	SNA	
R258	4	2007-007334	R-CHIP	1	SNA	
R258	4	2007-007334	R-CHIP	1	SNA	
R27	4	2007-007334	R-CHIP	1	SNA	
R27	4	2007-007334	R-CHIP	1	SNA	
R508	4	2007-007334	R-CHIP	1	SNA	
R508	4	2007-007334	R-CHIP	1	SNA	
R529	4	2007-007334	R-CHIP	1	SNA	
R537	4	2007-007334	R-CHIP	1	SNA	
R537	4	2007-007334	R-CHIP	1	SNA	
R723	4	2007-007334	R-CHIP	1	SNA	
R723	4	2007-007334	R-CHIP	1	SNA	
R241	4	2007-007382	R-CHIP	1	SA	
R241	4	2007-007382	R-CHIP	1	SA	
R192	4	2007-007441	R-CHIP	1	SA	
R192	4	2007-007441	R-CHIP	1	SA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R576	4	2007-007441	R-CHIP	1	SA	
R576	4	2007-007441	R-CHIP	1	SA	
R257	4	2007-007489	R-CHIP	1	SNA	
R257	4	2007-007489	R-CHIP	1	SNA	
R527	4	2007-007489	R-CHIP	1	SNA	
R527	4	2007-007489	R-CHIP	1	SNA	
R530	4	2007-007489	R-CHIP	1	SNA	
R530	4	2007-007489	R-CHIP	1	SNA	
R55	4	2007-007489	R-CHIP	1	SNA	
R55	4	2007-007489	R-CHIP	1	SNA	
R56	4	2007-007489	R-CHIP	1	SNA	
R56	4	2007-007489	R-CHIP	1	SNA	
R639	4	2007-007489	R-CHIP	1	SNA	
R639	4	2007-007489	R-CHIP	1	SNA	
R201	4	2007-007528	R-CHIP	1	SNA	
R201	4	2007-007528	R-CHIP	1	SNA	
R216	4	2007-007528	R-CHIP	1	SNA	
R216	4	2007-007528	R-CHIP	1	SNA	
R788	4	2007-007528	R-CHIP	1	SNA	
R788	4	2007-007528	R-CHIP	1	SNA	
R202	4	2007-007549	R-CHIP	1	SNA	
R202	4	2007-007549	R-CHIP	1	SNA	
R203	4	2007-007549	R-CHIP	1	SNA	
R203	4	2007-007549	R-CHIP	1	SNA	
R614	4	2007-007549	R-CHIP	1	SNA	
R614	4	2007-007549	R-CHIP	1	SNA	
R615	4	2007-007549	R-CHIP	1	SNA	
R615	4	2007-007549	R-CHIP	1	SNA	
R219	4	2007-007615	R-CHIP	1	SNA	
R219	4	2007-007615	R-CHIP	1	SNA	
R48	4	2007-007642	R-CHIP	1	SNA	
R48	4	2007-007642	R-CHIP	1	SNA	
R51	4	2007-007642	R-CHIP	1	SNA	
R51	4	2007-007642	R-CHIP	1	SNA	
R54	4	2007-007642	R-CHIP	1	SNA	
R54	4	2007-007642	R-CHIP	1	SNA	
R554	4	2007-007642	R-CHIP	1	SNA	
R554	4	2007-007642	R-CHIP	1	SNA	
R151	4	2007-007766	R-CHIP	1	SNA	
R151	4	2007-007766	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R195	4	2007-007766	R-CHIP	1	SNA	
R195	4	2007-007766	R-CHIP	1	SNA	
R200	4	2007-007766	R-CHIP	1	SNA	
R200	4	2007-007766	R-CHIP	1	SNA	
R514	4	2007-007766	R-CHIP	1	SNA	
R514	4	2007-007766	R-CHIP	1	SNA	
R575	4	2007-007766	R-CHIP	1	SNA	
R575	4	2007-007766	R-CHIP	1	SNA	
R623	4	2007-007766	R-CHIP	1	SNA	
R623	4	2007-007766	R-CHIP	1	SNA	
R642	4	2007-007766	R-CHIP	1	SNA	
R642	4	2007-007766	R-CHIP	1	SNA	
R653	4	2007-007766	R-CHIP	1	SNA	
R653	4	2007-007766	R-CHIP	1	SNA	
R683	4	2007-007766	R-CHIP	1	SNA	
R683	4	2007-007766	R-CHIP	1	SNA	
R47	4	2007-007778	R-CHIP	1	SNA	
R47	4	2007-007778	R-CHIP	1	SNA	
R238	4	2007-007942	R-CHIP	1	SNA	
R238	4	2007-007942	R-CHIP	1	SNA	
R265	4	2007-007942	R-CHIP	1	SNA	
R265	4	2007-007942	R-CHIP	1	SNA	
R1	4	2007-008015	R-CHIP	1	SNA	
R1	4	2007-008015	R-CHIP	1	SNA	
R2	4	2007-008015	R-CHIP	1	SNA	
R2	4	2007-008015	R-CHIP	1	SNA	
R3	4	2007-008015	R-CHIP	1	SNA	
R3	4	2007-008015	R-CHIP	1	SNA	
R4	4	2007-008015	R-CHIP	1	SNA	
R4	4	2007-008015	R-CHIP	1	SNA	
R775	4	2007-008015	R-CHIP	1	SNA	
R775	4	2007-008015	R-CHIP	1	SNA	
R740	4	2007-008223	R-CHIP	1	SNA	
R740	4	2007-008223	R-CHIP	1	SNA	
R35	4	2007-008293	R-CHIP	1	SNA	
R35	4	2007-008293	R-CHIP	1	SNA	
R643	4	2007-008293	R-CHIP	1	SNA	
R643	4	2007-008293	R-CHIP	1	SNA	
R540	4	2007-008298	R-CHIP	1	SNA	
R540	4	2007-008298	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R541	4	2007-008298	R-CHIP	1	SNA	
R541	4	2007-008298	R-CHIP	1	SNA	
R542	4	2007-008298	R-CHIP	1	SNA	
R542	4	2007-008298	R-CHIP	1	SNA	
R543	4	2007-008298	R-CHIP	1	SNA	
R543	4	2007-008298	R-CHIP	1	SNA	
R544	4	2007-008298	R-CHIP	1	SNA	
R544	4	2007-008298	R-CHIP	1	SNA	
R545	4	2007-008298	R-CHIP	1	SNA	
R545	4	2007-008298	R-CHIP	1	SNA	
R546	4	2007-008298	R-CHIP	1	SNA	
R546	4	2007-008298	R-CHIP	1	SNA	
R547	4	2007-008298	R-CHIP	1	SNA	
R547	4	2007-008298	R-CHIP	1	SNA	
R548	4	2007-008298	R-CHIP	1	SNA	
R548	4	2007-008298	R-CHIP	1	SNA	
R549	4	2007-008298	R-CHIP	1	SNA	
R549	4	2007-008298	R-CHIP	1	SNA	
R550	4	2007-008298	R-CHIP	1	SNA	
R550	4	2007-008298	R-CHIP	1	SNA	
R551	4	2007-008298	R-CHIP	1	SNA	
R551	4	2007-008298	R-CHIP	1	SNA	
R562	4	2007-008298	R-CHIP	1	SNA	
R562	4	2007-008298	R-CHIP	1	SNA	
R563	4	2007-008298	R-CHIP	1	SNA	
R563	4	2007-008298	R-CHIP	1	SNA	
R564	4	2007-008298	R-CHIP	1	SNA	
R564	4	2007-008298	R-CHIP	1	SNA	
R567	4	2007-008298	R-CHIP	1	SNA	
R567	4	2007-008298	R-CHIP	1	SNA	
R588	4	2007-008298	R-CHIP	1	SNA	
R588	4	2007-008298	R-CHIP	1	SNA	
R110	4	2007-008299	R-CHIP	1	SA	
R110	4	2007-008299	R-CHIP	1	SA	
R160	4	2007-008303	R-CHIP	1	SNA	
R160	4	2007-008303	R-CHIP	1	SNA	
R162	4	2007-008303	R-CHIP	1	SNA	
R162	4	2007-008303	R-CHIP	1	SNA	
R22	4	2007-008304	R-CHIP	1	SNA	
R22	4	2007-008304	R-CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
R233	4	2007-008304	R-CHIP	1	SNA	
R233	4	2007-008304	R-CHIP	1	SNA	
R49	4	2007-008304	R-CHIP	1	SNA	
R49	4	2007-008304	R-CHIP	1	SNA	
R565	4	2007-008304	R-CHIP	1	SNA	
R565	4	2007-008304	R-CHIP	1	SNA	
R784	4	2007-008304	R-CHIP	1	SNA	
R784	4	2007-008304	R-CHIP	1	SNA	
R159	4	2007-008314	R-CHIP	1	SNA	
R159	4	2007-008314	R-CHIP	1	SNA	
R161	4	2007-008314	R-CHIP	1	SNA	
R161	4	2007-008314	R-CHIP	1	SNA	
R651	4	2007-008330	R-CHIP	1	SNA	
R651	4	2007-008330	R-CHIP	1	SNA	
R652	4	2007-008330	R-CHIP	1	SNA	
R652	4	2007-008330	R-CHIP	1	SNA	
R254	4	2007-008359	R-CHIP	1	SNA	
R254	4	2007-008359	R-CHIP	1	SNA	
R577	4	2007-008373	R-CHIP	1	SNA	
R577	4	2007-008373	R-CHIP	1	SNA	
R109	4	2007-008535	R-CHIP	1	SNA	
R109	4	2007-008535	R-CHIP	1	SNA	
R602	4	2007-008708	R-CHIP	1	SNA	
R602	4	2007-008708	R-CHIP	1	SNA	
R603	4	2007-008708	R-CHIP	1	SNA	
R603	4	2007-008708	R-CHIP	1	SNA	
R18	4	2007-008714	R-CHIP	1	SNA	
R18	4	2007-008714	R-CHIP	1	SNA	
R139	4	2007-008789	R-CHIP	1	SA	
R139	4	2007-008789	R-CHIP	1	SA	
R157	4	2007-008789	R-CHIP	1	SA	
R157	4	2007-008789	R-CHIP	1	SA	
C1	4	2203-000233	C-CER,CHIP	1	SNA	
C1	4	2203-000233	C-CER,CHIP	1	SNA	
C22	4	2203-000233	C-CER,CHIP	1	SNA	
C22	4	2203-000233	C-CER,CHIP	1	SNA	
C23	4	2203-000233	C-CER,CHIP	1	SNA	
C23	4	2203-000233	C-CER,CHIP	1	SNA	
C24	4	2203-000233	C-CER,CHIP	1	SNA	
C24	4	2203-000233	C-CER,CHIP	1	SNA	

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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C645	4	2203-000233	C-CER,CHIP	1	SNA	
C645	4	2203-000233	C-CER,CHIP	1	SNA	
C660	4	2203-000233	C-CER,CHIP	1	SNA	
C660	4	2203-000233	C-CER,CHIP	1	SNA	
C661	4	2203-000233	C-CER,CHIP	1	SNA	
C661	4	2203-000233	C-CER,CHIP	1	SNA	
C7	4	2203-000233	C-CER,CHIP	1	SNA	
C7	4	2203-000233	C-CER,CHIP	1	SNA	
C79	4	2203-000233	C-CER,CHIP	1	SNA	
C79	4	2203-000233	C-CER,CHIP	1	SNA	
C81	4	2203-000233	C-CER,CHIP	1	SNA	
C81	4	2203-000233	C-CER,CHIP	1	SNA	
C626	4	2203-000257	C-CER,CHIP	1	SNA	
C626	4	2203-000257	C-CER,CHIP	1	SNA	
C631	4	2203-000257	C-CER,CHIP	1	SNA	
C631	4	2203-000257	C-CER,CHIP	1	SNA	
C641	4	2203-000257	C-CER,CHIP	1	SNA	
C641	4	2203-000257	C-CER,CHIP	1	SNA	
C658	4	2203-000257	C-CER,CHIP	1	SNA	
C658	4	2203-000257	C-CER,CHIP	1	SNA	
C733	4	2203-000257	C-CER,CHIP	1	SNA	
C733	4	2203-000257	C-CER,CHIP	1	SNA	
C511	4	2203-000278	C-CER,CHIP	1	SNA	
C511	4	2203-000278	C-CER,CHIP	1	SNA	
C512	4	2203-000278	C-CER,CHIP	1	SNA	
C512	4	2203-000278	C-CER,CHIP	1	SNA	
C513	4	2203-000278	C-CER,CHIP	1	SNA	
C513	4	2203-000278	C-CER,CHIP	1	SNA	
C694	4	2203-000278	C-CER,CHIP	1	SNA	
C694	4	2203-000278	C-CER,CHIP	1	SNA	
C695	4	2203-000278	C-CER,CHIP	1	SNA	
C695	4	2203-000278	C-CER,CHIP	1	SNA	
C724	4	2203-000278	C-CER,CHIP	1	SNA	
C724	4	2203-000278	C-CER,CHIP	1	SNA	
C252	4	2203-000425	C-CER,CHIP	1	SNA	
C252	4	2203-000425	C-CER,CHIP	1	SNA	
C254	4	2203-000425	C-CER,CHIP	1	SNA	
C254	4	2203-000425	C-CER,CHIP	1	SNA	
C262	4	2203-000425	C-CER,CHIP	1	SNA	
C262	4	2203-000425	C-CER,CHIP	1	SNA	

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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C263	4	2203-000425	C-CER,CHIP	1	SNA	
C263	4	2203-000425	C-CER,CHIP	1	SNA	
C533	4	2203-000425	C-CER,CHIP	1	SNA	
C533	4	2203-000425	C-CER,CHIP	1	SNA	
C534	4	2203-000425	C-CER,CHIP	1	SNA	
C534	4	2203-000425	C-CER,CHIP	1	SNA	
C246	4	2203-000438	C-CER,CHIP	1	SNA	
C246	4	2203-000438	C-CER,CHIP	1	SNA	
C48	4	2203-000438	C-CER,CHIP	1	SNA	
C48	4	2203-000438	C-CER,CHIP	1	SNA	
C50	4	2203-000438	C-CER,CHIP	1	SNA	
C50	4	2203-000438	C-CER,CHIP	1	SNA	
C545	4	2203-000438	C-CER,CHIP	1	SNA	
C545	4	2203-000438	C-CER,CHIP	1	SNA	
C547	4	2203-000438	C-CER,CHIP	1	SNA	
C547	4	2203-000438	C-CER,CHIP	1	SNA	
C569	4	2203-000438	C-CER,CHIP	1	SNA	
C569	4	2203-000438	C-CER,CHIP	1	SNA	
C624	4	2203-000438	C-CER,CHIP	1	SNA	
C624	4	2203-000438	C-CER,CHIP	1	SNA	
C625	4	2203-000438	C-CER,CHIP	1	SNA	
C625	4	2203-000438	C-CER,CHIP	1	SNA	
C635	4	2203-000438	C-CER,CHIP	1	SNA	
C635	4	2203-000438	C-CER,CHIP	1	SNA	
C642	4	2203-000438	C-CER,CHIP	1	SNA	
C642	4	2203-000438	C-CER,CHIP	1	SNA	
C659	4	2203-000438	C-CER,CHIP	1	SNA	
C659	4	2203-000438	C-CER,CHIP	1	SNA	
C670	4	2203-000438	C-CER,CHIP	1	SNA	
C670	4	2203-000438	C-CER,CHIP	1	SNA	
C706	4	2203-000438	C-CER,CHIP	1	SNA	
C706	4	2203-000438	C-CER,CHIP	1	SNA	
C782	4	2203-000438	C-CER,CHIP	1	SNA	
C782	4	2203-000438	C-CER,CHIP	1	SNA	
C110	4	2203-000489	C-CER,CHIP	1	SNA	
C110	4	2203-000489	C-CER,CHIP	1	SNA	
C193	4	2203-000489	C-CER,CHIP	1	SNA	
C193	4	2203-000489	C-CER,CHIP	1	SNA	
C194	4	2203-000489	C-CER,CHIP	1	SNA	
C194	4	2203-000489	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C578	4	2203-000489	C-CER,CHIP	1	SNA	
C578	4	2203-000489	C-CER,CHIP	1	SNA	
C234	4	2203-000627	C-CER,CHIP	1	SNA	
C234	4	2203-000627	C-CER,CHIP	1	SNA	
C235	4	2203-000627	C-CER,CHIP	1	SNA	
C235	4	2203-000627	C-CER,CHIP	1	SNA	
C53	4	2203-000627	C-CER,CHIP	1	SNA	
C53	4	2203-000627	C-CER,CHIP	1	SNA	
C54	4	2203-000627	C-CER,CHIP	1	SNA	
C54	4	2203-000627	C-CER,CHIP	1	SNA	
C590	4	2203-000627	C-CER,CHIP	1	SNA	
C590	4	2203-000627	C-CER,CHIP	1	SNA	
C770	4	2203-000627	C-CER,CHIP	1	SNA	
C770	4	2203-000627	C-CER,CHIP	1	SNA	
C2	4	2203-000654	C-CER,CHIP	1	SNA	
C2	4	2203-000654	C-CER,CHIP	1	SNA	
C6	4	2203-000654	C-CER,CHIP	1	SNA	
C6	4	2203-000654	C-CER,CHIP	1	SNA	
C606	4	2203-000654	C-CER,CHIP	1	SNA	
C606	4	2203-000654	C-CER,CHIP	1	SNA	
C672	4	2203-000940	C-CER,CHIP	1	SNA	
C672	4	2203-000940	C-CER,CHIP	1	SNA	
C737	4	2203-000940	C-CER,CHIP	1	SNA	
C737	4	2203-000940	C-CER,CHIP	1	SNA	
C12	4	2203-000995	C-CER,CHIP	1	SNA	
C12	4	2203-000995	C-CER,CHIP	1	SNA	
C212	4	2203-000995	C-CER,CHIP	1	SNA	
C212	4	2203-000995	C-CER,CHIP	1	SNA	
C603	4	2203-000995	C-CER,CHIP	1	SNA	
C603	4	2203-000995	C-CER,CHIP	1	SNA	
C669	4	2203-000995	C-CER,CHIP	1	SNA	
C669	4	2203-000995	C-CER,CHIP	1	SNA	
C705	4	2203-001652	C-CER,CHIP	1	SNA	
C705	4	2203-001652	C-CER,CHIP	1	SNA	
C267	4	2203-002398	C-CER,CHIP	1	SNA	
C267	4	2203-002398	C-CER,CHIP	1	SNA	
C743	4	2203-002398	C-CER,CHIP	1	SNA	
C743	4	2203-002398	C-CER,CHIP	1	SNA	
C242	4	2203-002487	C-CER,CHIP	1	SA	
C242	4	2203-002487	C-CER,CHIP	1	SA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C764	4	2203-002487	C-CER,CHIP	1	SA	
C764	4	2203-002487	C-CER,CHIP	1	SA	
C109	4	2203-002711	C-CER,CHIP	1	SNA	
C109	4	2203-002711	C-CER,CHIP	1	SNA	
C15	4	2203-002711	C-CER,CHIP	1	SNA	
C15	4	2203-002711	C-CER,CHIP	1	SNA	
C18	4	2203-002711	C-CER,CHIP	1	SNA	
C18	4	2203-002711	C-CER,CHIP	1	SNA	
C19	4	2203-002711	C-CER,CHIP	1	SNA	
C19	4	2203-002711	C-CER,CHIP	1	SNA	
C192	4	2203-002711	C-CER,CHIP	1	SNA	
C192	4	2203-002711	C-CER,CHIP	1	SNA	
C21	4	2203-002711	C-CER,CHIP	1	SNA	
C21	4	2203-002711	C-CER,CHIP	1	SNA	
C211	4	2203-002711	C-CER,CHIP	1	SNA	
C211	4	2203-002711	C-CER,CHIP	1	SNA	
C221	4	2203-002711	C-CER,CHIP	1	SNA	
C221	4	2203-002711	C-CER,CHIP	1	SNA	
C223	4	2203-002711	C-CER,CHIP	1	SNA	
C223	4	2203-002711	C-CER,CHIP	1	SNA	
C259	4	2203-002711	C-CER,CHIP	1	SNA	
C259	4	2203-002711	C-CER,CHIP	1	SNA	
C3	4	2203-002711	C-CER,CHIP	1	SNA	
C3	4	2203-002711	C-CER,CHIP	1	SNA	
C38	4	2203-002711	C-CER,CHIP	1	SNA	
C38	4	2203-002711	C-CER,CHIP	1	SNA	
C39	4	2203-002711	C-CER,CHIP	1	SNA	
C39	4	2203-002711	C-CER,CHIP	1	SNA	
C40	4	2203-002711	C-CER,CHIP	1	SNA	
C40	4	2203-002711	C-CER,CHIP	1	SNA	
C531	4	2203-002711	C-CER,CHIP	1	SNA	
C531	4	2203-002711	C-CER,CHIP	1	SNA	
C552	4	2203-002711	C-CER,CHIP	1	SNA	
C552	4	2203-002711	C-CER,CHIP	1	SNA	
C662	4	2203-002711	C-CER,CHIP	1	SNA	
C662	4	2203-002711	C-CER,CHIP	1	SNA	
C707	4	2203-002711	C-CER,CHIP	1	SNA	
C707	4	2203-002711	C-CER,CHIP	1	SNA	
C715	4	2203-002711	C-CER,CHIP	1	SNA	
C715	4	2203-002711	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C739	4	2203-002711	C-CER,CHIP	1	SNA	
C739	4	2203-002711	C-CER,CHIP	1	SNA	
C757	4	2203-002711	C-CER,CHIP	1	SNA	
C757	4	2203-002711	C-CER,CHIP	1	SNA	
C772	4	2203-002711	C-CER,CHIP	1	SNA	
C772	4	2203-002711	C-CER,CHIP	1	SNA	
C773	4	2203-002711	C-CER,CHIP	1	SNA	
C773	4	2203-002711	C-CER,CHIP	1	SNA	
C774	4	2203-002711	C-CER,CHIP	1	SNA	
C774	4	2203-002711	C-CER,CHIP	1	SNA	
C776	4	2203-002711	C-CER,CHIP	1	SNA	
C776	4	2203-002711	C-CER,CHIP	1	SNA	
C789	4	2203-002711	C-CER,CHIP	1	SNA	
C789	4	2203-002711	C-CER,CHIP	1	SNA	
C805	4	2203-002711	C-CER,CHIP	1	SNA	
C805	4	2203-002711	C-CER,CHIP	1	SNA	
C809	4	2203-002711	C-CER,CHIP	1	SNA	
C809	4	2203-002711	C-CER,CHIP	1	SNA	
C810	4	2203-002711	C-CER,CHIP	1	SNA	
C810	4	2203-002711	C-CER,CHIP	1	SNA	
C17	4	2203-002720	C-CER,CHIP	1	SNA	
C17	4	2203-002720	C-CER,CHIP	1	SNA	
C199	4	2203-002720	C-CER,CHIP	1	SNA	
C199	4	2203-002720	C-CER,CHIP	1	SNA	
C217	4	2203-002720	C-CER,CHIP	1	SNA	
C217	4	2203-002720	C-CER,CHIP	1	SNA	
C218	4	2203-002720	C-CER,CHIP	1	SNA	
C218	4	2203-002720	C-CER,CHIP	1	SNA	
C219	4	2203-002720	C-CER,CHIP	1	SNA	
C219	4	2203-002720	C-CER,CHIP	1	SNA	
C220	4	2203-002720	C-CER,CHIP	1	SNA	
C220	4	2203-002720	C-CER,CHIP	1	SNA	
C249	4	2203-002720	C-CER,CHIP	1	SNA	
C249	4	2203-002720	C-CER,CHIP	1	SNA	
C28	4	2203-002720	C-CER,CHIP	1	SNA	
C28	4	2203-002720	C-CER,CHIP	1	SNA	
C29	4	2203-002720	C-CER,CHIP	1	SNA	
C29	4	2203-002720	C-CER,CHIP	1	SNA	
C52	4	2203-002720	C-CER,CHIP	1	SNA	
C52	4	2203-002720	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C556	4	2203-002720	C-CER,CHIP	1	SNA	
C556	4	2203-002720	C-CER,CHIP	1	SNA	
C557	4	2203-002720	C-CER,CHIP	1	SNA	
C557	4	2203-002720	C-CER,CHIP	1	SNA	
C572	4	2203-002720	C-CER,CHIP	1	SNA	
C572	4	2203-002720	C-CER,CHIP	1	SNA	
C594	4	2203-002720	C-CER,CHIP	1	SNA	
C594	4	2203-002720	C-CER,CHIP	1	SNA	
C646	4	2203-002720	C-CER,CHIP	1	SNA	
C646	4	2203-002720	C-CER,CHIP	1	SNA	
C665	4	2203-002720	C-CER,CHIP	1	SNA	
C665	4	2203-002720	C-CER,CHIP	1	SNA	
C666	4	2203-002720	C-CER,CHIP	1	SNA	
C666	4	2203-002720	C-CER,CHIP	1	SNA	
C779	4	2203-002720	C-CER,CHIP	1	SNA	
C779	4	2203-002720	C-CER,CHIP	1	SNA	
C508	4	2203-005052	C-CER,CHIP	1	SA	
C508	4	2203-005052	C-CER,CHIP	1	SA	
C509	4	2203-005052	C-CER,CHIP	1	SA	
C509	4	2203-005052	C-CER,CHIP	1	SA	
C510	4	2203-005052	C-CER,CHIP	1	SA	
C510	4	2203-005052	C-CER,CHIP	1	SA	
C10	4	2203-005482	C-CER,CHIP	1	SNA	
C10	4	2203-005482	C-CER,CHIP	1	SNA	
C104	4	2203-005482	C-CER,CHIP	1	SNA	
C104	4	2203-005482	C-CER,CHIP	1	SNA	
C105	4	2203-005482	C-CER,CHIP	1	SNA	
C105	4	2203-005482	C-CER,CHIP	1	SNA	
C106	4	2203-005482	C-CER,CHIP	1	SNA	
C106	4	2203-005482	C-CER,CHIP	1	SNA	
C107	4	2203-005482	C-CER,CHIP	1	SNA	
C107	4	2203-005482	C-CER,CHIP	1	SNA	
C108	4	2203-005482	C-CER,CHIP	1	SNA	
C108	4	2203-005482	C-CER,CHIP	1	SNA	
C11	4	2203-005482	C-CER,CHIP	1	SNA	
C11	4	2203-005482	C-CER,CHIP	1	SNA	
C111	4	2203-005482	C-CER,CHIP	1	SNA	
C111	4	2203-005482	C-CER,CHIP	1	SNA	
C117	4	2203-005482	C-CER,CHIP	1	SNA	
C117	4	2203-005482	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C130	4	2203-005482	C-CER,CHIP	1	SNA	
C130	4	2203-005482	C-CER,CHIP	1	SNA	
C131	4	2203-005482	C-CER,CHIP	1	SNA	
C131	4	2203-005482	C-CER,CHIP	1	SNA	
C132	4	2203-005482	C-CER,CHIP	1	SNA	
C132	4	2203-005482	C-CER,CHIP	1	SNA	
C133	4	2203-005482	C-CER,CHIP	1	SNA	
C133	4	2203-005482	C-CER,CHIP	1	SNA	
C144	4	2203-005482	C-CER,CHIP	1	SNA	
C144	4	2203-005482	C-CER,CHIP	1	SNA	
C145	4	2203-005482	C-CER,CHIP	1	SNA	
C145	4	2203-005482	C-CER,CHIP	1	SNA	
C146	4	2203-005482	C-CER,CHIP	1	SNA	
C146	4	2203-005482	C-CER,CHIP	1	SNA	
C147	4	2203-005482	C-CER,CHIP	1	SNA	
C147	4	2203-005482	C-CER,CHIP	1	SNA	
C148	4	2203-005482	C-CER,CHIP	1	SNA	
C148	4	2203-005482	C-CER,CHIP	1	SNA	
C149	4	2203-005482	C-CER,CHIP	1	SNA	
C149	4	2203-005482	C-CER,CHIP	1	SNA	
C150	4	2203-005482	C-CER,CHIP	1	SNA	
C150	4	2203-005482	C-CER,CHIP	1	SNA	
C153	4	2203-005482	C-CER,CHIP	1	SNA	
C153	4	2203-005482	C-CER,CHIP	1	SNA	
C154	4	2203-005482	C-CER,CHIP	1	SNA	
C154	4	2203-005482	C-CER,CHIP	1	SNA	
C155	4	2203-005482	C-CER,CHIP	1	SNA	
C155	4	2203-005482	C-CER,CHIP	1	SNA	
C156	4	2203-005482	C-CER,CHIP	1	SNA	
C156	4	2203-005482	C-CER,CHIP	1	SNA	
C158	4	2203-005482	C-CER,CHIP	1	SNA	
C158	4	2203-005482	C-CER,CHIP	1	SNA	
C159	4	2203-005482	C-CER,CHIP	1	SNA	
C159	4	2203-005482	C-CER,CHIP	1	SNA	
C160	4	2203-005482	C-CER,CHIP	1	SNA	
C160	4	2203-005482	C-CER,CHIP	1	SNA	
C162	4	2203-005482	C-CER,CHIP	1	SNA	
C162	4	2203-005482	C-CER,CHIP	1	SNA	
C163	4	2203-005482	C-CER,CHIP	1	SNA	
C163	4	2203-005482	C-CER,CHIP	1	SNA	

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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C164	4	2203-005482	C-CER,CHIP	1	SNA	
C164	4	2203-005482	C-CER,CHIP	1	SNA	
C171	4	2203-005482	C-CER,CHIP	1	SNA	
C171	4	2203-005482	C-CER,CHIP	1	SNA	
C172	4	2203-005482	C-CER,CHIP	1	SNA	
C172	4	2203-005482	C-CER,CHIP	1	SNA	
C173	4	2203-005482	C-CER,CHIP	1	SNA	
C173	4	2203-005482	C-CER,CHIP	1	SNA	
C186	4	2203-005482	C-CER,CHIP	1	SNA	
C186	4	2203-005482	C-CER,CHIP	1	SNA	
C188	4	2203-005482	C-CER,CHIP	1	SNA	
C188	4	2203-005482	C-CER,CHIP	1	SNA	
C191	4	2203-005482	C-CER,CHIP	1	SNA	
C191	4	2203-005482	C-CER,CHIP	1	SNA	
C201	4	2203-005482	C-CER,CHIP	1	SNA	
C201	4	2203-005482	C-CER,CHIP	1	SNA	
C202	4	2203-005482	C-CER,CHIP	1	SNA	
C202	4	2203-005482	C-CER,CHIP	1	SNA	
C203	4	2203-005482	C-CER,CHIP	1	SNA	
C203	4	2203-005482	C-CER,CHIP	1	SNA	
C204	4	2203-005482	C-CER,CHIP	1	SNA	
C204	4	2203-005482	C-CER,CHIP	1	SNA	
C205	4	2203-005482	C-CER,CHIP	1	SNA	
C205	4	2203-005482	C-CER,CHIP	1	SNA	
C206	4	2203-005482	C-CER,CHIP	1	SNA	
C206	4	2203-005482	C-CER,CHIP	1	SNA	
C207	4	2203-005482	C-CER,CHIP	1	SNA	
C207	4	2203-005482	C-CER,CHIP	1	SNA	
C208	4	2203-005482	C-CER,CHIP	1	SNA	
C208	4	2203-005482	C-CER,CHIP	1	SNA	
C222	4	2203-005482	C-CER,CHIP	1	SNA	
C222	4	2203-005482	C-CER,CHIP	1	SNA	
C226	4	2203-005482	C-CER,CHIP	1	SNA	
C226	4	2203-005482	C-CER,CHIP	1	SNA	
C227	4	2203-005482	C-CER,CHIP	1	SNA	
C227	4	2203-005482	C-CER,CHIP	1	SNA	
C228	4	2203-005482	C-CER,CHIP	1	SNA	
C228	4	2203-005482	C-CER,CHIP	1	SNA	
C237	4	2203-005482	C-CER,CHIP	1	SNA	
C237	4	2203-005482	C-CER,CHIP	1	SNA	

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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C240	4	2203-005482	C-CER,CHIP	1	SNA	
C240	4	2203-005482	C-CER,CHIP	1	SNA	
C243	4	2203-005482	C-CER,CHIP	1	SNA	
C243	4	2203-005482	C-CER,CHIP	1	SNA	
C244	4	2203-005482	C-CER,CHIP	1	SNA	
C244	4	2203-005482	C-CER,CHIP	1	SNA	
C245	4	2203-005482	C-CER,CHIP	1	SNA	
C245	4	2203-005482	C-CER,CHIP	1	SNA	
C248	4	2203-005482	C-CER,CHIP	1	SNA	
C248	4	2203-005482	C-CER,CHIP	1	SNA	
C258	4	2203-005482	C-CER,CHIP	1	SNA	
C258	4	2203-005482	C-CER,CHIP	1	SNA	
C261	4	2203-005482	C-CER,CHIP	1	SNA	
C261	4	2203-005482	C-CER,CHIP	1	SNA	
C264	4	2203-005482	C-CER,CHIP	1	SNA	
C264	4	2203-005482	C-CER,CHIP	1	SNA	
C265	4	2203-005482	C-CER,CHIP	1	SNA	
C265	4	2203-005482	C-CER,CHIP	1	SNA	
C269	4	2203-005482	C-CER,CHIP	1	SNA	
C269	4	2203-005482	C-CER,CHIP	1	SNA	
C270	4	2203-005482	C-CER,CHIP	1	SNA	
C270	4	2203-005482	C-CER,CHIP	1	SNA	
C271	4	2203-005482	C-CER,CHIP	1	SNA	
C271	4	2203-005482	C-CER,CHIP	1	SNA	
C272	4	2203-005482	C-CER,CHIP	1	SNA	
C272	4	2203-005482	C-CER,CHIP	1	SNA	
C494	4	2203-005482	C-CER,CHIP	1	SNA	
C494	4	2203-005482	C-CER,CHIP	1	SNA	
C500	4	2203-005482	C-CER,CHIP	1	SNA	
C500	4	2203-005482	C-CER,CHIP	1	SNA	
C501	4	2203-005482	C-CER,CHIP	1	SNA	
C501	4	2203-005482	C-CER,CHIP	1	SNA	
C502	4	2203-005482	C-CER,CHIP	1	SNA	
C502	4	2203-005482	C-CER,CHIP	1	SNA	
C503	4	2203-005482	C-CER,CHIP	1	SNA	
C503	4	2203-005482	C-CER,CHIP	1	SNA	
C506	4	2203-005482	C-CER,CHIP	1	SNA	
C506	4	2203-005482	C-CER,CHIP	1	SNA	
C514	4	2203-005482	C-CER,CHIP	1	SNA	
C514	4	2203-005482	C-CER,CHIP	1	SNA	

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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C515	4	2203-005482	C-CER,CHIP	1	SNA	
C515	4	2203-005482	C-CER,CHIP	1	SNA	
C518	4	2203-005482	C-CER,CHIP	1	SNA	
C518	4	2203-005482	C-CER,CHIP	1	SNA	
C519	4	2203-005482	C-CER,CHIP	1	SNA	
C519	4	2203-005482	C-CER,CHIP	1	SNA	
C520	4	2203-005482	C-CER,CHIP	1	SNA	
C520	4	2203-005482	C-CER,CHIP	1	SNA	
C521	4	2203-005482	C-CER,CHIP	1	SNA	
C521	4	2203-005482	C-CER,CHIP	1	SNA	
C522	4	2203-005482	C-CER,CHIP	1	SNA	
C522	4	2203-005482	C-CER,CHIP	1	SNA	
C523	4	2203-005482	C-CER,CHIP	1	SNA	
C523	4	2203-005482	C-CER,CHIP	1	SNA	
C524	4	2203-005482	C-CER,CHIP	1	SNA	
C524	4	2203-005482	C-CER,CHIP	1	SNA	
C525	4	2203-005482	C-CER,CHIP	1	SNA	
C525	4	2203-005482	C-CER,CHIP	1	SNA	
C526	4	2203-005482	C-CER,CHIP	1	SNA	
C526	4	2203-005482	C-CER,CHIP	1	SNA	
C527	4	2203-005482	C-CER,CHIP	1	SNA	
C527	4	2203-005482	C-CER,CHIP	1	SNA	
C530	4	2203-005482	C-CER,CHIP	1	SNA	
C530	4	2203-005482	C-CER,CHIP	1	SNA	
C532	4	2203-005482	C-CER,CHIP	1	SNA	
C532	4	2203-005482	C-CER,CHIP	1	SNA	
C535	4	2203-005482	C-CER,CHIP	1	SNA	
C535	4	2203-005482	C-CER,CHIP	1	SNA	
C536	4	2203-005482	C-CER,CHIP	1	SNA	
C536	4	2203-005482	C-CER,CHIP	1	SNA	
C537	4	2203-005482	C-CER,CHIP	1	SNA	
C537	4	2203-005482	C-CER,CHIP	1	SNA	
C538	4	2203-005482	C-CER,CHIP	1	SNA	
C538	4	2203-005482	C-CER,CHIP	1	SNA	
C539	4	2203-005482	C-CER,CHIP	1	SNA	
C539	4	2203-005482	C-CER,CHIP	1	SNA	
C540	4	2203-005482	C-CER,CHIP	1	SNA	
C540	4	2203-005482	C-CER,CHIP	1	SNA	
C541	4	2203-005482	C-CER,CHIP	1	SNA	
C541	4	2203-005482	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C542	4	2203-005482	C-CER,CHIP	1	SNA	
C542	4	2203-005482	C-CER,CHIP	1	SNA	
C549	4	2203-005482	C-CER,CHIP	1	SNA	
C549	4	2203-005482	C-CER,CHIP	1	SNA	
C55	4	2203-005482	C-CER,CHIP	1	SNA	
C55	4	2203-005482	C-CER,CHIP	1	SNA	
C568	4	2203-005482	C-CER,CHIP	1	SNA	
C568	4	2203-005482	C-CER,CHIP	1	SNA	
C57	4	2203-005482	C-CER,CHIP	1	SNA	
C57	4	2203-005482	C-CER,CHIP	1	SNA	
C570	4	2203-005482	C-CER,CHIP	1	SNA	
C570	4	2203-005482	C-CER,CHIP	1	SNA	
C571	4	2203-005482	C-CER,CHIP	1	SNA	
C571	4	2203-005482	C-CER,CHIP	1	SNA	
C573	4	2203-005482	C-CER,CHIP	1	SNA	
C573	4	2203-005482	C-CER,CHIP	1	SNA	
C575	4	2203-005482	C-CER,CHIP	1	SNA	
C575	4	2203-005482	C-CER,CHIP	1	SNA	
C576	4	2203-005482	C-CER,CHIP	1	SNA	
C576	4	2203-005482	C-CER,CHIP	1	SNA	
C577	4	2203-005482	C-CER,CHIP	1	SNA	
C577	4	2203-005482	C-CER,CHIP	1	SNA	
C58	4	2203-005482	C-CER,CHIP	1	SNA	
C58	4	2203-005482	C-CER,CHIP	1	SNA	
C581	4	2203-005482	C-CER,CHIP	1	SNA	
C581	4	2203-005482	C-CER,CHIP	1	SNA	
C582	4	2203-005482	C-CER,CHIP	1	SNA	
C582	4	2203-005482	C-CER,CHIP	1	SNA	
C583	4	2203-005482	C-CER,CHIP	1	SNA	
C583	4	2203-005482	C-CER,CHIP	1	SNA	
C584	4	2203-005482	C-CER,CHIP	1	SNA	
C584	4	2203-005482	C-CER,CHIP	1	SNA	
C589	4	2203-005482	C-CER,CHIP	1	SNA	
C589	4	2203-005482	C-CER,CHIP	1	SNA	
C59	4	2203-005482	C-CER,CHIP	1	SNA	
C59	4	2203-005482	C-CER,CHIP	1	SNA	
C591	4	2203-005482	C-CER,CHIP	1	SNA	
C591	4	2203-005482	C-CER,CHIP	1	SNA	
C60	4	2203-005482	C-CER,CHIP	1	SNA	
C60	4	2203-005482	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C604	4	2203-005482	C-CER,CHIP	1	SNA	
C604	4	2203-005482	C-CER,CHIP	1	SNA	
C61	4	2203-005482	C-CER,CHIP	1	SNA	
C61	4	2203-005482	C-CER,CHIP	1	SNA	
C611	4	2203-005482	C-CER,CHIP	1	SNA	
C611	4	2203-005482	C-CER,CHIP	1	SNA	
C612	4	2203-005482	C-CER,CHIP	1	SNA	
C612	4	2203-005482	C-CER,CHIP	1	SNA	
C613	4	2203-005482	C-CER,CHIP	1	SNA	
C613	4	2203-005482	C-CER,CHIP	1	SNA	
C614	4	2203-005482	C-CER,CHIP	1	SNA	
C614	4	2203-005482	C-CER,CHIP	1	SNA	
C615	4	2203-005482	C-CER,CHIP	1	SNA	
C615	4	2203-005482	C-CER,CHIP	1	SNA	
C616	4	2203-005482	C-CER,CHIP	1	SNA	
C616	4	2203-005482	C-CER,CHIP	1	SNA	
C617	4	2203-005482	C-CER,CHIP	1	SNA	
C617	4	2203-005482	C-CER,CHIP	1	SNA	
C618	4	2203-005482	C-CER,CHIP	1	SNA	
C618	4	2203-005482	C-CER,CHIP	1	SNA	
C619	4	2203-005482	C-CER,CHIP	1	SNA	
C619	4	2203-005482	C-CER,CHIP	1	SNA	
C62	4	2203-005482	C-CER,CHIP	1	SNA	
C62	4	2203-005482	C-CER,CHIP	1	SNA	
C620	4	2203-005482	C-CER,CHIP	1	SNA	
C620	4	2203-005482	C-CER,CHIP	1	SNA	
C622	4	2203-005482	C-CER,CHIP	1	SNA	
C622	4	2203-005482	C-CER,CHIP	1	SNA	
C623	4	2203-005482	C-CER,CHIP	1	SNA	
C623	4	2203-005482	C-CER,CHIP	1	SNA	
C63	4	2203-005482	C-CER,CHIP	1	SNA	
C63	4	2203-005482	C-CER,CHIP	1	SNA	
C636	4	2203-005482	C-CER,CHIP	1	SNA	
C636	4	2203-005482	C-CER,CHIP	1	SNA	
C64	4	2203-005482	C-CER,CHIP	1	SNA	
C64	4	2203-005482	C-CER,CHIP	1	SNA	
C649	4	2203-005482	C-CER,CHIP	1	SNA	
C649	4	2203-005482	C-CER,CHIP	1	SNA	
C65	4	2203-005482	C-CER,CHIP	1	SNA	
C65	4	2203-005482	C-CER,CHIP	1	SNA	

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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C653	4	2203-005482	C-CER,CHIP	1	SNA	
C653	4	2203-005482	C-CER,CHIP	1	SNA	
C654	4	2203-005482	C-CER,CHIP	1	SNA	
C654	4	2203-005482	C-CER,CHIP	1	SNA	
C66	4	2203-005482	C-CER,CHIP	1	SNA	
C66	4	2203-005482	C-CER,CHIP	1	SNA	
C67	4	2203-005482	C-CER,CHIP	1	SNA	
C67	4	2203-005482	C-CER,CHIP	1	SNA	
C678	4	2203-005482	C-CER,CHIP	1	SNA	
C678	4	2203-005482	C-CER,CHIP	1	SNA	
C68	4	2203-005482	C-CER,CHIP	1	SNA	
C68	4	2203-005482	C-CER,CHIP	1	SNA	
C69	4	2203-005482	C-CER,CHIP	1	SNA	
C69	4	2203-005482	C-CER,CHIP	1	SNA	
C692	4	2203-005482	C-CER,CHIP	1	SNA	
C692	4	2203-005482	C-CER,CHIP	1	SNA	
C696	4	2203-005482	C-CER,CHIP	1	SNA	
C696	4	2203-005482	C-CER,CHIP	1	SNA	
C699	4	2203-005482	C-CER,CHIP	1	SNA	
C699	4	2203-005482	C-CER,CHIP	1	SNA	
C70	4	2203-005482	C-CER,CHIP	1	SNA	
C70	4	2203-005482	C-CER,CHIP	1	SNA	
C700	4	2203-005482	C-CER,CHIP	1	SNA	
C700	4	2203-005482	C-CER,CHIP	1	SNA	
C701	4	2203-005482	C-CER,CHIP	1	SNA	
C701	4	2203-005482	C-CER,CHIP	1	SNA	
C702	4	2203-005482	C-CER,CHIP	1	SNA	
C702	4	2203-005482	C-CER,CHIP	1	SNA	
C708	4	2203-005482	C-CER,CHIP	1	SNA	
C708	4	2203-005482	C-CER,CHIP	1	SNA	
C709	4	2203-005482	C-CER,CHIP	1	SNA	
C709	4	2203-005482	C-CER,CHIP	1	SNA	
C710	4	2203-005482	C-CER,CHIP	1	SNA	
C710	4	2203-005482	C-CER,CHIP	1	SNA	
C711	4	2203-005482	C-CER,CHIP	1	SNA	
C711	4	2203-005482	C-CER,CHIP	1	SNA	
C712	4	2203-005482	C-CER,CHIP	1	SNA	
C712	4	2203-005482	C-CER,CHIP	1	SNA	
C713	4	2203-005482	C-CER,CHIP	1	SNA	
C713	4	2203-005482	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C714	4	2203-005482	C-CER,CHIP	1	SNA	
C714	4	2203-005482	C-CER,CHIP	1	SNA	
C717	4	2203-005482	C-CER,CHIP	1	SNA	
C717	4	2203-005482	C-CER,CHIP	1	SNA	
C720	4	2203-005482	C-CER,CHIP	1	SNA	
C720	4	2203-005482	C-CER,CHIP	1	SNA	
C721	4	2203-005482	C-CER,CHIP	1	SNA	
C721	4	2203-005482	C-CER,CHIP	1	SNA	
C722	4	2203-005482	C-CER,CHIP	1	SNA	
C722	4	2203-005482	C-CER,CHIP	1	SNA	
C723	4	2203-005482	C-CER,CHIP	1	SNA	
C723	4	2203-005482	C-CER,CHIP	1	SNA	
C725	4	2203-005482	C-CER,CHIP	1	SNA	
C725	4	2203-005482	C-CER,CHIP	1	SNA	
C727	4	2203-005482	C-CER,CHIP	1	SNA	
C727	4	2203-005482	C-CER,CHIP	1	SNA	
C731	4	2203-005482	C-CER,CHIP	1	SNA	
C731	4	2203-005482	C-CER,CHIP	1	SNA	
C732	4	2203-005482	C-CER,CHIP	1	SNA	
C732	4	2203-005482	C-CER,CHIP	1	SNA	
C734	4	2203-005482	C-CER,CHIP	1	SNA	
C734	4	2203-005482	C-CER,CHIP	1	SNA	
C736	4	2203-005482	C-CER,CHIP	1	SNA	
C736	4	2203-005482	C-CER,CHIP	1	SNA	
C740	4	2203-005482	C-CER,CHIP	1	SNA	
C740	4	2203-005482	C-CER,CHIP	1	SNA	
C742	4	2203-005482	C-CER,CHIP	1	SNA	
C742	4	2203-005482	C-CER,CHIP	1	SNA	
C747	4	2203-005482	C-CER,CHIP	1	SNA	
C747	4	2203-005482	C-CER,CHIP	1	SNA	
C750	4	2203-005482	C-CER,CHIP	1	SNA	
C750	4	2203-005482	C-CER,CHIP	1	SNA	
C751	4	2203-005482	C-CER,CHIP	1	SNA	
C751	4	2203-005482	C-CER,CHIP	1	SNA	
C754	4	2203-005482	C-CER,CHIP	1	SNA	
C754	4	2203-005482	C-CER,CHIP	1	SNA	
C756	4	2203-005482	C-CER,CHIP	1	SNA	
C756	4	2203-005482	C-CER,CHIP	1	SNA	
C759	4	2203-005482	C-CER,CHIP	1	SNA	
C759	4	2203-005482	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C761	4	2203-005482	C-CER,CHIP	1	SNA	
C761	4	2203-005482	C-CER,CHIP	1	SNA	
C762	4	2203-005482	C-CER,CHIP	1	SNA	
C762	4	2203-005482	C-CER,CHIP	1	SNA	
C763	4	2203-005482	C-CER,CHIP	1	SNA	
C763	4	2203-005482	C-CER,CHIP	1	SNA	
C765	4	2203-005482	C-CER,CHIP	1	SNA	
C765	4	2203-005482	C-CER,CHIP	1	SNA	
C769	4	2203-005482	C-CER,CHIP	1	SNA	
C769	4	2203-005482	C-CER,CHIP	1	SNA	
C771	4	2203-005482	C-CER,CHIP	1	SNA	
C771	4	2203-005482	C-CER,CHIP	1	SNA	
C778	4	2203-005482	C-CER,CHIP	1	SNA	
C778	4	2203-005482	C-CER,CHIP	1	SNA	
C78	4	2203-005482	C-CER,CHIP	1	SNA	
C78	4	2203-005482	C-CER,CHIP	1	SNA	
C785	4	2203-005482	C-CER,CHIP	1	SNA	
C785	4	2203-005482	C-CER,CHIP	1	SNA	
C806	4	2203-005482	C-CER,CHIP	1	SNA	
C806	4	2203-005482	C-CER,CHIP	1	SNA	
C83	4	2203-005482	C-CER,CHIP	1	SNA	
C83	4	2203-005482	C-CER,CHIP	1	SNA	
C9	4	2203-005482	C-CER,CHIP	1	SNA	
C9	4	2203-005482	C-CER,CHIP	1	SNA	
C95	4	2203-005482	C-CER,CHIP	1	SNA	
C95	4	2203-005482	C-CER,CHIP	1	SNA	
C96	4	2203-005482	C-CER,CHIP	1	SNA	
C96	4	2203-005482	C-CER,CHIP	1	SNA	
C236	4	2203-005509	C-CER,CHIP	1	SNA	
C236	4	2203-005509	C-CER,CHIP	1	SNA	
C275	4	2203-005918	C-CER,CHIP	1	SA	
C275	4	2203-005918	C-CER,CHIP	1	SA	
C555	4	2203-005918	C-CER,CHIP	1	SA	
C555	4	2203-005918	C-CER,CHIP	1	SA	
C664	4	2203-005918	C-CER,CHIP	1	SA	
C664	4	2203-005918	C-CER,CHIP	1	SA	
C671	4	2203-005918	C-CER,CHIP	1	SA	
C671	4	2203-005918	C-CER,CHIP	1	SA	
C775	4	2203-005918	C-CER,CHIP	1	SA	
C775	4	2203-005918	C-CER,CHIP	1	SA	

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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C4	4	2203-006000	C-CER,CHIP	1	SA	
C4	4	2203-006000	C-CER,CHIP	1	SA	
C5	4	2203-006000	C-CER,CHIP	1	SA	
C5	4	2203-006000	C-CER,CHIP	1	SA	
C504	4	2203-006000	C-CER,CHIP	1	SA	
C504	4	2203-006000	C-CER,CHIP	1	SA	
C505	4	2203-006048	C-CER,CHIP	1	SA	
C505	4	2203-006048	C-CER,CHIP	1	SA	
C546	4	2203-006048	C-CER,CHIP	1	SA	
C546	4	2203-006048	C-CER,CHIP	1	SA	
C121	4	2203-006069	C-CER,CHIP	1	SNA	
C121	4	2203-006069	C-CER,CHIP	1	SNA	
C124	4	2203-006069	C-CER,CHIP	1	SNA	
C124	4	2203-006069	C-CER,CHIP	1	SNA	
C157	4	2203-006069	C-CER,CHIP	1	SNA	
C157	4	2203-006069	C-CER,CHIP	1	SNA	
C241	4	2203-006069	C-CER,CHIP	1	SNA	
C241	4	2203-006069	C-CER,CHIP	1	SNA	
C250	4	2203-006069	C-CER,CHIP	1	SNA	
C250	4	2203-006069	C-CER,CHIP	1	SNA	
C251	4	2203-006069	C-CER,CHIP	1	SNA	
C251	4	2203-006069	C-CER,CHIP	1	SNA	
C273	4	2203-006069	C-CER,CHIP	1	SNA	
C273	4	2203-006069	C-CER,CHIP	1	SNA	
C276	4	2203-006069	C-CER,CHIP	1	SNA	
C276	4	2203-006069	C-CER,CHIP	1	SNA	
C517	4	2203-006069	C-CER,CHIP	1	SNA	
C517	4	2203-006069	C-CER,CHIP	1	SNA	
C543	4	2203-006069	C-CER,CHIP	1	SNA	
C543	4	2203-006069	C-CER,CHIP	1	SNA	
C548	4	2203-006069	C-CER,CHIP	1	SNA	
C548	4	2203-006069	C-CER,CHIP	1	SNA	
C567	4	2203-006069	C-CER,CHIP	1	SNA	
C567	4	2203-006069	C-CER,CHIP	1	SNA	
C587	4	2203-006069	C-CER,CHIP	1	SNA	
C587	4	2203-006069	C-CER,CHIP	1	SNA	
C593	4	2203-006069	C-CER,CHIP	1	SNA	
C593	4	2203-006069	C-CER,CHIP	1	SNA	
C600	4	2203-006069	C-CER,CHIP	1	SNA	
C600	4	2203-006069	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C697	4	2203-006069	C-CER,CHIP	1	SNA	
C697	4	2203-006069	C-CER,CHIP	1	SNA	
C741	4	2203-006069	C-CER,CHIP	1	SNA	
C741	4	2203-006069	C-CER,CHIP	1	SNA	
C744	4	2203-006069	C-CER,CHIP	1	SNA	
C744	4	2203-006069	C-CER,CHIP	1	SNA	
C758	4	2203-006069	C-CER,CHIP	1	SNA	
C758	4	2203-006069	C-CER,CHIP	1	SNA	
C784	4	2203-006069	C-CER,CHIP	1	SNA	
C784	4	2203-006069	C-CER,CHIP	1	SNA	
C8	4	2203-006069	C-CER,CHIP	1	SNA	
C8	4	2203-006069	C-CER,CHIP	1	SNA	
C92	4	2203-006069	C-CER,CHIP	1	SNA	
C92	4	2203-006069	C-CER,CHIP	1	SNA	
C103	4	2203-006090	C-CER,CHIP	1	SA	
C103	4	2203-006090	C-CER,CHIP	1	SA	
C113	4	2203-006090	C-CER,CHIP	1	SA	
C113	4	2203-006090	C-CER,CHIP	1	SA	
C114	4	2203-006090	C-CER,CHIP	1	SA	
C114	4	2203-006090	C-CER,CHIP	1	SA	
C120	4	2203-006090	C-CER,CHIP	1	SA	
C120	4	2203-006090	C-CER,CHIP	1	SA	
C123	4	2203-006090	C-CER,CHIP	1	SA	
C123	4	2203-006090	C-CER,CHIP	1	SA	
C125	4	2203-006090	C-CER,CHIP	1	SA	
C125	4	2203-006090	C-CER,CHIP	1	SA	
C126	4	2203-006090	C-CER,CHIP	1	SA	
C126	4	2203-006090	C-CER,CHIP	1	SA	
C151	4	2203-006090	C-CER,CHIP	1	SA	
C151	4	2203-006090	C-CER,CHIP	1	SA	
C152	4	2203-006090	C-CER,CHIP	1	SA	
C152	4	2203-006090	C-CER,CHIP	1	SA	
C184	4	2203-006090	C-CER,CHIP	1	SA	
C184	4	2203-006090	C-CER,CHIP	1	SA	
C209	4	2203-006090	C-CER,CHIP	1	SA	
C209	4	2203-006090	C-CER,CHIP	1	SA	
C253	4	2203-006090	C-CER,CHIP	1	SA	
C253	4	2203-006090	C-CER,CHIP	1	SA	
C42	4	2203-006090	C-CER,CHIP	1	SA	
C42	4	2203-006090	C-CER,CHIP	1	SA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C47	4	2203-006090	C-CER,CHIP	1	SA	
C47	4	2203-006090	C-CER,CHIP	1	SA	
C516	4	2203-006090	C-CER,CHIP	1	SA	
C516	4	2203-006090	C-CER,CHIP	1	SA	
C544	4	2203-006090	C-CER,CHIP	1	SA	
C544	4	2203-006090	C-CER,CHIP	1	SA	
C56	4	2203-006090	C-CER,CHIP	1	SA	
C56	4	2203-006090	C-CER,CHIP	1	SA	
C574	4	2203-006090	C-CER,CHIP	1	SA	
C574	4	2203-006090	C-CER,CHIP	1	SA	
C585	4	2203-006090	C-CER,CHIP	1	SA	
C585	4	2203-006090	C-CER,CHIP	1	SA	
C586	4	2203-006090	C-CER,CHIP	1	SA	
C586	4	2203-006090	C-CER,CHIP	1	SA	
C596	4	2203-006090	C-CER,CHIP	1	SA	
C596	4	2203-006090	C-CER,CHIP	1	SA	
C610	4	2203-006090	C-CER,CHIP	1	SA	
C610	4	2203-006090	C-CER,CHIP	1	SA	
C674	4	2203-006090	C-CER,CHIP	1	SA	
C674	4	2203-006090	C-CER,CHIP	1	SA	
C704	4	2203-006090	C-CER,CHIP	1	SA	
C704	4	2203-006090	C-CER,CHIP	1	SA	
C735	4	2203-006090	C-CER,CHIP	1	SA	
C735	4	2203-006090	C-CER,CHIP	1	SA	
C748	4	2203-006090	C-CER,CHIP	1	SA	
C748	4	2203-006090	C-CER,CHIP	1	SA	
C749	4	2203-006090	C-CER,CHIP	1	SA	
C749	4	2203-006090	C-CER,CHIP	1	SA	
C75	4	2203-006090	C-CER,CHIP	1	SA	
C75	4	2203-006090	C-CER,CHIP	1	SA	
C755	4	2203-006090	C-CER,CHIP	1	SA	
C755	4	2203-006090	C-CER,CHIP	1	SA	
C768	4	2203-006090	C-CER,CHIP	1	SA	
C768	4	2203-006090	C-CER,CHIP	1	SA	
C786	4	2203-006090	C-CER,CHIP	1	SA	
C786	4	2203-006090	C-CER,CHIP	1	SA	
C812	4	2203-006090	C-CER,CHIP	1	SA	
C812	4	2203-006090	C-CER,CHIP	1	SA	
C93	4	2203-006090	C-CER,CHIP	1	SA	
C93	4	2203-006090	C-CER,CHIP	1	SA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C94	4	2203-006090	C-CER,CHIP	1	SA	
C94	4	2203-006090	C-CER,CHIP	1	SA	
C25	4	2203-006166	C-CER,CHIP	1	SNA	
C25	4	2203-006166	C-CER,CHIP	1	SNA	
C26	4	2203-006166	C-CER,CHIP	1	SNA	
C26	4	2203-006166	C-CER,CHIP	1	SNA	
C507	4	2203-006166	C-CER,CHIP	1	SNA	
C507	4	2203-006166	C-CER,CHIP	1	SNA	
C116	4	2203-006324	C-CER,CHIP	1	SNA	
C116	4	2203-006324	C-CER,CHIP	1	SNA	
C119	4	2203-006324	C-CER,CHIP	1	SNA	
C119	4	2203-006324	C-CER,CHIP	1	SNA	
C122	4	2203-006324	C-CER,CHIP	1	SNA	
C122	4	2203-006324	C-CER,CHIP	1	SNA	
C189	4	2203-006324	C-CER,CHIP	1	SNA	
C189	4	2203-006324	C-CER,CHIP	1	SNA	
C190	4	2203-006324	C-CER,CHIP	1	SNA	
C190	4	2203-006324	C-CER,CHIP	1	SNA	
C213	4	2203-006324	C-CER,CHIP	1	SNA	
C213	4	2203-006324	C-CER,CHIP	1	SNA	
C214	4	2203-006324	C-CER,CHIP	1	SNA	
C214	4	2203-006324	C-CER,CHIP	1	SNA	
C224	4	2203-006324	C-CER,CHIP	1	SNA	
C224	4	2203-006324	C-CER,CHIP	1	SNA	
C595	4	2203-006324	C-CER,CHIP	1	SNA	
C595	4	2203-006324	C-CER,CHIP	1	SNA	
C599	4	2203-006324	C-CER,CHIP	1	SNA	
C599	4	2203-006324	C-CER,CHIP	1	SNA	
C684	4	2203-006324	C-CER,CHIP	1	SNA	
C684	4	2203-006324	C-CER,CHIP	1	SNA	
C71	4	2203-006324	C-CER,CHIP	1	SNA	
C71	4	2203-006324	C-CER,CHIP	1	SNA	
C72	4	2203-006324	C-CER,CHIP	1	SNA	
C72	4	2203-006324	C-CER,CHIP	1	SNA	
C73	4	2203-006324	C-CER,CHIP	1	SNA	
C73	4	2203-006324	C-CER,CHIP	1	SNA	
C77	4	2203-006324	C-CER,CHIP	1	SNA	
C77	4	2203-006324	C-CER,CHIP	1	SNA	
C80	4	2203-006324	C-CER,CHIP	1	SNA	
C80	4	2203-006324	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C82	4	2203-006324	C-CER,CHIP	1	SNA	
C82	4	2203-006324	C-CER,CHIP	1	SNA	
C84	4	2203-006324	C-CER,CHIP	1	SNA	
C84	4	2203-006324	C-CER,CHIP	1	SNA	
C86	4	2203-006324	C-CER,CHIP	1	SNA	
C86	4	2203-006324	C-CER,CHIP	1	SNA	
C200	4	2203-006336	C-CER,CHIP	1	SNA	
C200	4	2203-006336	C-CER,CHIP	1	SNA	
C27	4	2203-006336	C-CER,CHIP	1	SNA	
C27	4	2203-006336	C-CER,CHIP	1	SNA	
C565	4	2203-006336	C-CER,CHIP	1	SNA	
C565	4	2203-006336	C-CER,CHIP	1	SNA	
C566	4	2203-006336	C-CER,CHIP	1	SNA	
C566	4	2203-006336	C-CER,CHIP	1	SNA	
C14	4	2203-006348	C-CER,CHIP	1	SNA	
C14	4	2203-006348	C-CER,CHIP	1	SNA	
C16	4	2203-006348	C-CER,CHIP	1	SNA	
C16	4	2203-006348	C-CER,CHIP	1	SNA	
C46	4	2203-006348	C-CER,CHIP	1	SNA	
C46	4	2203-006348	C-CER,CHIP	1	SNA	
C551	4	2203-006348	C-CER,CHIP	1	SNA	
C551	4	2203-006348	C-CER,CHIP	1	SNA	
C553	4	2203-006348	C-CER,CHIP	1	SNA	
C553	4	2203-006348	C-CER,CHIP	1	SNA	
C554	4	2203-006348	C-CER,CHIP	1	SNA	
C554	4	2203-006348	C-CER,CHIP	1	SNA	
C643	4	2203-006348	C-CER,CHIP	1	SNA	
C643	4	2203-006348	C-CER,CHIP	1	SNA	
C663	4	2203-006348	C-CER,CHIP	1	SNA	
C663	4	2203-006348	C-CER,CHIP	1	SNA	
C210	4	2203-006399	C-CER,CHIP	1	SNA	
C210	4	2203-006399	C-CER,CHIP	1	SNA	
C225	4	2203-006399	C-CER,CHIP	1	SNA	
C225	4	2203-006399	C-CER,CHIP	1	SNA	
C232	4	2203-006399	C-CER,CHIP	1	SNA	
C232	4	2203-006399	C-CER,CHIP	1	SNA	
C268	4	2203-006399	C-CER,CHIP	1	SNA	
C268	4	2203-006399	C-CER,CHIP	1	SNA	
C41	4	2203-006399	C-CER,CHIP	1	SNA	
C41	4	2203-006399	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C43	4	2203-006399	C-CER,CHIP	1	SNA	
C43	4	2203-006399	C-CER,CHIP	1	SNA	
C49	4	2203-006399	C-CER,CHIP	1	SNA	
C49	4	2203-006399	C-CER,CHIP	1	SNA	
C51	4	2203-006399	C-CER,CHIP	1	SNA	
C51	4	2203-006399	C-CER,CHIP	1	SNA	
C579	4	2203-006399	C-CER,CHIP	1	SNA	
C579	4	2203-006399	C-CER,CHIP	1	SNA	
C607	4	2203-006399	C-CER,CHIP	1	SNA	
C607	4	2203-006399	C-CER,CHIP	1	SNA	
C637	4	2203-006399	C-CER,CHIP	1	SNA	
C637	4	2203-006399	C-CER,CHIP	1	SNA	
C638	4	2203-006399	C-CER,CHIP	1	SNA	
C638	4	2203-006399	C-CER,CHIP	1	SNA	
C644	4	2203-006399	C-CER,CHIP	1	SNA	
C644	4	2203-006399	C-CER,CHIP	1	SNA	
C647	4	2203-006399	C-CER,CHIP	1	SNA	
C647	4	2203-006399	C-CER,CHIP	1	SNA	
C648	4	2203-006399	C-CER,CHIP	1	SNA	
C648	4	2203-006399	C-CER,CHIP	1	SNA	
C650	4	2203-006399	C-CER,CHIP	1	SNA	
C650	4	2203-006399	C-CER,CHIP	1	SNA	
C652	4	2203-006399	C-CER,CHIP	1	SNA	
C652	4	2203-006399	C-CER,CHIP	1	SNA	
C655	4	2203-006399	C-CER,CHIP	1	SNA	
C655	4	2203-006399	C-CER,CHIP	1	SNA	
C656	4	2203-006399	C-CER,CHIP	1	SNA	
C656	4	2203-006399	C-CER,CHIP	1	SNA	
C675	4	2203-006399	C-CER,CHIP	1	SNA	
C675	4	2203-006399	C-CER,CHIP	1	SNA	
C676	4	2203-006399	C-CER,CHIP	1	SNA	
C676	4	2203-006399	C-CER,CHIP	1	SNA	
C677	4	2203-006399	C-CER,CHIP	1	SNA	
C677	4	2203-006399	C-CER,CHIP	1	SNA	
C679	4	2203-006399	C-CER,CHIP	1	SNA	
C679	4	2203-006399	C-CER,CHIP	1	SNA	
C680	4	2203-006399	C-CER,CHIP	1	SNA	
C680	4	2203-006399	C-CER,CHIP	1	SNA	
C681	4	2203-006399	C-CER,CHIP	1	SNA	
C681	4	2203-006399	C-CER,CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C682	4	2203-006399	C-CER,CHIP	1	SNA	
C682	4	2203-006399	C-CER,CHIP	1	SNA	
C683	4	2203-006399	C-CER,CHIP	1	SNA	
C683	4	2203-006399	C-CER,CHIP	1	SNA	
C685	4	2203-006399	C-CER,CHIP	1	SNA	
C685	4	2203-006399	C-CER,CHIP	1	SNA	
C686	4	2203-006399	C-CER,CHIP	1	SNA	
C686	4	2203-006399	C-CER,CHIP	1	SNA	
C687	4	2203-006399	C-CER,CHIP	1	SNA	
C687	4	2203-006399	C-CER,CHIP	1	SNA	
C688	4	2203-006399	C-CER,CHIP	1	SNA	
C688	4	2203-006399	C-CER,CHIP	1	SNA	
C689	4	2203-006399	C-CER,CHIP	1	SNA	
C689	4	2203-006399	C-CER,CHIP	1	SNA	
C690	4	2203-006399	C-CER,CHIP	1	SNA	
C690	4	2203-006399	C-CER,CHIP	1	SNA	
C691	4	2203-006399	C-CER,CHIP	1	SNA	
C691	4	2203-006399	C-CER,CHIP	1	SNA	
C693	4	2203-006399	C-CER,CHIP	1	SNA	
C693	4	2203-006399	C-CER,CHIP	1	SNA	
C718	4	2203-006399	C-CER,CHIP	1	SNA	
C718	4	2203-006399	C-CER,CHIP	1	SNA	
C719	4	2203-006399	C-CER,CHIP	1	SNA	
C719	4	2203-006399	C-CER,CHIP	1	SNA	
C745	4	2203-006399	C-CER,CHIP	1	SNA	
C745	4	2203-006399	C-CER,CHIP	1	SNA	
C746	4	2203-006399	C-CER,CHIP	1	SNA	
C746	4	2203-006399	C-CER,CHIP	1	SNA	
C760	4	2203-006399	C-CER,CHIP	1	SNA	
C760	4	2203-006399	C-CER,CHIP	1	SNA	
C766	4	2203-006399	C-CER,CHIP	1	SNA	
C766	4	2203-006399	C-CER,CHIP	1	SNA	
C767	4	2203-006399	C-CER,CHIP	1	SNA	
C767	4	2203-006399	C-CER,CHIP	1	SNA	
C780	4	2203-006399	C-CER,CHIP	1	SNA	
C780	4	2203-006399	C-CER,CHIP	1	SNA	
C89	4	2203-006399	C-CER,CHIP	1	SNA	
C89	4	2203-006399	C-CER,CHIP	1	SNA	
C161	4	2203-006474	C-CER,CHIP	1	SA	
C161	4	2203-006474	C-CER,CHIP	1	SA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
C165	4	2203-006474	C-CER,CHIP	1	SA	
C165	4	2203-006474	C-CER,CHIP	1	SA	
C166	4	2203-006474	C-CER,CHIP	1	SA	
C166	4	2203-006474	C-CER,CHIP	1	SA	
C167	4	2203-006474	C-CER,CHIP	1	SA	
C167	4	2203-006474	C-CER,CHIP	1	SA	
C168	4	2203-006474	C-CER,CHIP	1	SA	
C168	4	2203-006474	C-CER,CHIP	1	SA	
C169	4	2203-006474	C-CER,CHIP	1	SA	
C169	4	2203-006474	C-CER,CHIP	1	SA	
C170	4	2203-006474	C-CER,CHIP	1	SA	
C170	4	2203-006474	C-CER,CHIP	1	SA	
C174	4	2203-006474	C-CER,CHIP	1	SA	
C174	4	2203-006474	C-CER,CHIP	1	SA	
C176	4	2203-006474	C-CER,CHIP	1	SA	
C176	4	2203-006474	C-CER,CHIP	1	SA	
C177	4	2203-006474	C-CER,CHIP	1	SA	
C177	4	2203-006474	C-CER,CHIP	1	SA	
C178	4	2203-006474	C-CER,CHIP	1	SA	
C178	4	2203-006474	C-CER,CHIP	1	SA	
C179	4	2203-006474	C-CER,CHIP	1	SA	
C179	4	2203-006474	C-CER,CHIP	1	SA	
C180	4	2203-006474	C-CER,CHIP	1	SA	
C180	4	2203-006474	C-CER,CHIP	1	SA	
C181	4	2203-006474	C-CER,CHIP	1	SA	
C181	4	2203-006474	C-CER,CHIP	1	SA	
C182	4	2203-006474	C-CER,CHIP	1	SA	
C182	4	2203-006474	C-CER,CHIP	1	SA	
C183	4	2203-006474	C-CER,CHIP	1	SA	
C183	4	2203-006474	C-CER,CHIP	1	SA	
C602	4	2203-006474	C-CER,CHIP	1	SA	
C602	4	2203-006474	C-CER,CHIP	1	SA	
C640	4	2203-006474	C-CER,CHIP	1	SA	
C640	4	2203-006474	C-CER,CHIP	1	SA	
C657	4	2203-006474	C-CER,CHIP	1	SA	
C657	4	2203-006474	C-CER,CHIP	1	SA	
C716	4	2203-006474	C-CER,CHIP	1	SA	
C716	4	2203-006474	C-CER,CHIP	1	SA	
C88	4	2203-006474	C-CER,CHIP	1	SA	
C88	4	2203-006474	C-CER,CHIP	1	SA	

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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
EC511	4	2402-001042	C-AL,SMD	1	SNA	
EC511	4	2402-001042	C-AL,SMD	1	SNA	
EC8	4	2402-001042	C-AL,SMD	1	SNA	
EC8	4	2402-001042	C-AL,SMD	1	SNA	
EC521	4	2402-001120	C-POLYMER AL CHIP	1	SA	
EC521	4	2402-001120	C-POLYMER AL CHIP	1	SA	
EC526	4	2402-001120	C-POLYMER AL CHIP	1	SA	
EC526	4	2402-001120	C-POLYMER AL CHIP	1	SA	
EC501	4	2402-001144	C-AL,SMD	1	SNA	
EC501	4	2402-001144	C-AL,SMD	1	SNA	
EC502	4	2402-001144	C-AL,SMD	1	SNA	
EC502	4	2402-001144	C-AL,SMD	1	SNA	
EC503	4	2402-001144	C-AL,SMD	1	SNA	
EC503	4	2402-001144	C-AL,SMD	1	SNA	
EC504	4	2402-001144	C-AL,SMD	1	SNA	
EC504	4	2402-001144	C-AL,SMD	1	SNA	
EC509	4	2402-001144	C-AL,SMD	1	SNA	
EC509	4	2402-001144	C-AL,SMD	1	SNA	
EC517	4	2402-001144	C-AL,SMD	1	SNA	
EC517	4	2402-001144	C-AL,SMD	1	SNA	
EC518	4	2402-001144	C-AL,SMD	1	SNA	
EC518	4	2402-001144	C-AL,SMD	1	SNA	
EC519	4	2402-001144	C-AL,SMD	1	SNA	
EC519	4	2402-001144	C-AL,SMD	1	SNA	
EC520	4	2402-001144	C-AL,SMD	1	SNA	
EC520	4	2402-001144	C-AL,SMD	1	SNA	
EC522	4	2402-001144	C-AL,SMD	1	SNA	
EC522	4	2402-001144	C-AL,SMD	1	SNA	
EC524	4	2402-001144	C-AL,SMD	1	SNA	
EC524	4	2402-001144	C-AL,SMD	1	SNA	
EC525	4	2402-001144	C-AL,SMD	1	SNA	
EC525	4	2402-001144	C-AL,SMD	1	SNA	
EC505	4	2402-001168	C-POLYMER AL CHIP	1	SNA	
EC505	4	2402-001168	C-POLYMER AL CHIP	1	SNA	
EC513	4	2402-001168	C-POLYMER AL CHIP	1	SNA	
EC513	4	2402-001168	C-POLYMER AL CHIP	1	SNA	
EC515	4	2402-001168	C-POLYMER AL CHIP	1	SNA	
EC515	4	2402-001168	C-POLYMER AL CHIP	1	SNA	
EC516	4	2402-001168	C-POLYMER AL CHIP	1	SNA	
EC516	4	2402-001168	C-POLYMER AL CHIP	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
EC1	4	2402-001306	C-AL,SMD	1	SNA	
EC1	4	2402-001306	C-AL,SMD	1	SNA	
EC3	4	2402-001306	C-AL,SMD	1	SNA	
EC3	4	2402-001306	C-AL,SMD	1	SNA	
EC5	4	2402-001306	C-AL,SMD	1	SNA	
EC5	4	2402-001306	C-AL,SMD	1	SNA	
EC6	4	2402-001306	C-AL,SMD	1	SNA	
EC6	4	2402-001306	C-AL,SMD	1	SNA	
EC507	4	2409-001117	C-ORGANIC,SMD	1	SNA	
EC507	4	2409-001117	C-ORGANIC,SMD	1	SNA	
EC508	4	2409-001117	C-ORGANIC,SMD	1	SNA	
EC510	4	2409-001117	C-ORGANIC,SMD	1	SNA	
EC510	4	2409-001117	C-ORGANIC,SMD	1	SNA	
EC512	4	2409-001117	C-ORGANIC,SMD	1	SNA	
EC512	4	2409-001117	C-ORGANIC,SMD	1	SNA	
EC500	4	2409-001129	C-POLYMER ,CHIP	1	SNA	
EC500	4	2409-001129	C-POLYMER ,CHIP	1	SNA	
LT500	4	2603-000099	TRANS-MATCHING	1	SNA	
LT500	4	2603-000099	TRANS-MATCHING	1	SNA	
L500	4	2703-001839	INDUCTOR-SMD	1	SNA	
L500	4	2703-001839	INDUCTOR-SMD	1	SNA	
L501	4	2703-001839	INDUCTOR-SMD	1	SNA	
L501	4	2703-001839	INDUCTOR-SMD	1	SNA	
L502	4	2703-001839	INDUCTOR-SMD	1	SNA	
L502	4	2703-001839	INDUCTOR-SMD	1	SNA	
L503	4	2703-002771	INDUCTOR-SMD	1	SNA	
L503	4	2703-002771	INDUCTOR-SMD	1	SNA	
L505	4	2703-002899	INDUCTOR-SMD	1	SNA	E3-02-2-50
L505	4	2703-002899	INDUCTOR-SMD	1	SNA	E3-02-2-50
L506	4	2703-002899	INDUCTOR-SMD	1	SNA	E3-02-2-50
L506	4	2703-002899	INDUCTOR-SMD	1	SNA	E3-02-2-50
L507	4	2703-002988	INDUCTOR-SMD	1	SNA	
L507	4	2703-002988	INDUCTOR-SMD	1	SNA	
L505	4	2703-002992	INDUCTOR-SMD	1	SNA	E3-01-2-50
L505	4	2703-002992	INDUCTOR-SMD	1	SNA	E3-01-2-50
L506	4	2703-002992	INDUCTOR-SMD	1	SNA	E3-01-2-50
L506	4	2703-002992	INDUCTOR-SMD	1	SNA	E3-01-2-50
L504	4	2703-003232	INDUCTOR-SMD	1	SNA	
L504	4	2703-003232	INDUCTOR-SMD	1	SNA	
L508	4	2703-003232	INDUCTOR-SMD	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
L508	4	2703-003232	INDUCTOR-SMD	1	SNA	
L509	4	2703-003233	INDUCTOR-SMD	1	SNA	
L509	4	2703-003233	INDUCTOR-SMD	1	SNA	
L510	4	2703-003233	INDUCTOR-SMD	1	SNA	
L510	4	2703-003233	INDUCTOR-SMD	1	SNA	
Y2	4	2801-000111	CRYSTAL-SMD	1	SNA	
Y2	4	2801-000111	CRYSTAL-SMD	1	SNA	
Y1	4	2801-004665	CRYSTAL-SMD	1	SNA	
Y1	4	2801-004665	CRYSTAL-SMD	1	SNA	
Y3	4	2801-004666	CRYSTAL-SMD	1	SNA	
Y3	4	2801-004666	CRYSTAL-SMD	1	SNA	
Y501	4	2801-004667	CRYSTAL-SMD	1	SNA	
Y501	4	2801-004667	CRYSTAL-SMD	1	SNA	
Y500	4	2801-004668	CRYSTAL-SMD	1	SNA	
Y500	4	2801-004668	CRYSTAL-SMD	1	SNA	
Y502	4	2801-004668	CRYSTAL-SMD	1	SNA	
Y502	4	2801-004668	CRYSTAL-SMD	1	SNA	
B25	4	3301-000314	BEAD-SMD	1	SNA	
B25	4	3301-000314	BEAD-SMD	1	SNA	
B510	4	3301-000314	BEAD-SMD	1	SNA	
B510	4	3301-000314	BEAD-SMD	1	SNA	
B511	4	3301-000314	BEAD-SMD	1	SNA	
B511	4	3301-000314	BEAD-SMD	1	SNA	
B513	4	3301-000314	BEAD-SMD	1	SNA	
B513	4	3301-000314	BEAD-SMD	1	SNA	
B509	4	3301-000326	BEAD-SMD	1	SNA	
B509	4	3301-000326	BEAD-SMD	1	SNA	
B7	4	3301-000326	BEAD-SMD	1	SNA	
B7	4	3301-000326	BEAD-SMD	1	SNA	
B2	4	3301-001272	BEAD-SMD	1	SNA	
B2	4	3301-001272	BEAD-SMD	1	SNA	
B3	4	3301-001272	BEAD-SMD	1	SNA	
B3	4	3301-001272	BEAD-SMD	1	SNA	
B503	4	3301-001272	BEAD-SMD	1	SNA	
B503	4	3301-001272	BEAD-SMD	1	SNA	
B9	4	3301-001272	BEAD-SMD	1	SNA	
B9	4	3301-001272	BEAD-SMD	1	SNA	
B1	4	3301-001569	BEAD-SMD	1	SNA	
B1	4	3301-001569	BEAD-SMD	1	SNA	
B4	4	3301-001569	BEAD-SMD	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
B4	4	3301-001569	BEAD-SMD	1	SNA	
B5	4	3301-001594	BEAD-SMD	1	SA	
B5	4	3301-001594	BEAD-SMD	1	SA	
B6	4	3301-001594	BEAD-SMD	1	SA	
B6	4	3301-001594	BEAD-SMD	1	SA	
B10	4	3301-001649	BEAD-SMD	1	SNA	
B10	4	3301-001649	BEAD-SMD	1	SNA	
B11	4	3301-001649	BEAD-SMD	1	SNA	
B11	4	3301-001649	BEAD-SMD	1	SNA	
B12	4	3301-001649	BEAD-SMD	1	SNA	
B12	4	3301-001649	BEAD-SMD	1	SNA	
B13	4	3301-001649	BEAD-SMD	1	SNA	
B13	4	3301-001649	BEAD-SMD	1	SNA	
B14	4	3301-001649	BEAD-SMD	1	SNA	
B14	4	3301-001649	BEAD-SMD	1	SNA	
B15	4	3301-001649	BEAD-SMD	1	SNA	
B15	4	3301-001649	BEAD-SMD	1	SNA	
B16	4	3301-001649	BEAD-SMD	1	SNA	
B16	4	3301-001649	BEAD-SMD	1	SNA	
B17	4	3301-001649	BEAD-SMD	1	SNA	
B17	4	3301-001649	BEAD-SMD	1	SNA	
B18	4	3301-001649	BEAD-SMD	1	SNA	
B18	4	3301-001649	BEAD-SMD	1	SNA	
B19	4	3301-001649	BEAD-SMD	1	SNA	
B19	4	3301-001649	BEAD-SMD	1	SNA	
B20	4	3301-001649	BEAD-SMD	1	SNA	
B20	4	3301-001649	BEAD-SMD	1	SNA	
B21	4	3301-001649	BEAD-SMD	1	SNA	
B21	4	3301-001649	BEAD-SMD	1	SNA	
B22	4	3301-001649	BEAD-SMD	1	SNA	
B22	4	3301-001649	BEAD-SMD	1	SNA	
B23	4	3301-001649	BEAD-SMD	1	SNA	
B23	4	3301-001649	BEAD-SMD	1	SNA	
B26	4	3301-001649	BEAD-SMD	1	SNA	
B26	4	3301-001649	BEAD-SMD	1	SNA	
B27	4	3301-001649	BEAD-SMD	1	SNA	
B27	4	3301-001649	BEAD-SMD	1	SNA	
B28	4	3301-001649	BEAD-SMD	1	SNA	
B28	4	3301-001649	BEAD-SMD	1	SNA	
B29	4	3301-001649	BEAD-SMD	1	SNA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
B29	4	3301-001649	BEAD-SMD	1	SNA	
B30	4	3301-001649	BEAD-SMD	1	SNA	
B30	4	3301-001649	BEAD-SMD	1	SNA	
B31	4	3301-001649	BEAD-SMD	1	SNA	
B31	4	3301-001649	BEAD-SMD	1	SNA	
B500	4	3301-001649	BEAD-SMD	1	SNA	
B500	4	3301-001649	BEAD-SMD	1	SNA	
B501	4	3301-001649	BEAD-SMD	1	SNA	
B501	4	3301-001649	BEAD-SMD	1	SNA	
B502	4	3301-001649	BEAD-SMD	1	SNA	
B502	4	3301-001649	BEAD-SMD	1	SNA	
B504	4	3301-001649	BEAD-SMD	1	SNA	
B504	4	3301-001649	BEAD-SMD	1	SNA	
B505	4	3301-001649	BEAD-SMD	1	SNA	
B505	4	3301-001649	BEAD-SMD	1	SNA	
B506	4	3301-001649	BEAD-SMD	1	SNA	
B506	4	3301-001649	BEAD-SMD	1	SNA	
B508	4	3301-001649	BEAD-SMD	1	SNA	
B508	4	3301-001649	BEAD-SMD	1	SNA	
B516	4	3301-001649	BEAD-SMD	1	SNA	
B516	4	3301-001649	BEAD-SMD	1	SNA	
B517	4	3301-001649	BEAD-SMD	1	SNA	
B517	4	3301-001649	BEAD-SMD	1	SNA	
B518	4	3301-001649	BEAD-SMD	1	SNA	
B518	4	3301-001649	BEAD-SMD	1	SNA	
B519	4	3301-001649	BEAD-SMD	1	SNA	
B519	4	3301-001649	BEAD-SMD	1	SNA	
B8	4	3301-001649	BEAD-SMD	1	SNA	
B8	4	3301-001649	BEAD-SMD	1	SNA	
B520	4	3301-001772	BEAD-SMD	1	SA	
B520	4	3301-001772	BEAD-SMD	1	SA	
SW1	4	3404-001311	SWITCH-TACT	1	SA	
SW1	4	3404-001311	SWITCH-TACT	1	SA	
SW2	4	3404-001311	SWITCH-TACT	1	SA	
SW2	4	3404-001311	SWITCH-TACT	1	SA	
SW3	4	3404-001311	SWITCH-TACT	1	SA	
SW3	4	3404-001311	SWITCH-TACT	1	SA	
SW4	4	3404-001311	SWITCH-TACT	1	SA	
SW4	4	3404-001311	SWITCH-TACT	1	SA	
J503	4	3701-001403	CONNECTOR-DSUB	1	SA	

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NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
J503	4	3701-001403	CONNECTOR-DSUB	1	SA	
CPU500	4	3704-001153	SOCKET-IC	1	SNA	
CPU500	4	3704-001153	SOCKET-IC	1	SNA	
J4	4	3708-002166	CONNECTOR-FPC/FFC/PIC	1	SA	
J4	4	3708-002166	CONNECTOR-FPC/FFC/PIC	1	SA	
J5	4	3708-002402	CONNECTOR-FPC/FFC/PIC	1	SA	
J5	4	3708-002402	CONNECTOR-FPC/FFC/PIC	1	SA	
DDR500	4	3709-001375	CONNECTOR-CARD EDGE	1	SA	
DDR500	4	3709-001375	CONNECTOR-CARD EDGE	1	SA	
J506	4	3709-001398	CONNECTOR-CARD EDGE	1	SA	
J506	4	3709-001398	CONNECTOR-CARD EDGE	1	SA	
DDR501	4	3709-001459	CONNECTOR-CARD EDGE	1	SA	S2-01-2-50
DDR501	4	3709-001459	CONNECTOR-CARD EDGE	1	SA	S2-01-2-50
DDR501	4	3709-001489	CONNECTOR-CARD EDGE	1	SA	S2-02-2-50
DDR501	4	3709-001489	CONNECTOR-CARD EDGE	1	SA	S2-02-2-50
J515	4	3709-001492	CONNECTOR-CARD SLOT	1	SA	
J515	4	3709-001492	CONNECTOR-CARD SLOT	1	SA	
J511	4	3710-002114	CONNECTOR-SOCKET	1	SA	
J511	4	3710-002114	CONNECTOR-SOCKET	1	SA	
J507	4	3710-002133	SOCKET-BOARD TO BOARD	1	SA	
J507	4	3710-002133	SOCKET-BOARD TO BOARD	1	SA	
J514	4	3710-002468	CONNECTOR-HEADER	1	SA	
J514	4	3710-002468	CONNECTOR-HEADER	1	SA	
J1	4	3710-002498	SOCKET-BOARD TO CABLE	1	SA	
J1	4	3710-002498	SOCKET-BOARD TO CABLE	1	SA	
J510	4	3711-000386	HEADER-BOARD TO CABLE	1	SA	
J510	4	3711-000386	HEADER-BOARD TO CABLE	1	SA	
J504	4	3711-000541	HEADER-BOARD TO CABLE	1	SA	
J504	4	3711-000541	HEADER-BOARD TO CABLE	1	SA	
J2	4	3711-000922	HEADER-BOARD TO CABLE	1	SNA	
J2	4	3711-000922	HEADER-BOARD TO CABLE	1	SNA	
J3	4	3711-000922	HEADER-BOARD TO CABLE	1	SNA	
J3	4	3711-000922	HEADER-BOARD TO CABLE	1	SNA	
J8	4	3711-002127	HEADER-BOARD TO CABLE	1	SA	
J8	4	3711-002127	HEADER-BOARD TO CABLE	1	SA	
J9	4	3711-005753	HEADER-BOARD TO BOARD	1	SA	
J9	4	3711-005753	HEADER-BOARD TO BOARD	1	SA	
J505	4	3711-006059	HEADER-BATTERY	1	SA	
J505	4	3711-006059	HEADER-BATTERY	1	SA	
J6	4	3711-006496	CONNECTOR-HEADER	1	SA	

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MATERIAL LIST

NAME	Level	Parts Code	DESCRIPTION	Q'TY	Service	ALT
J6	4	3711-006496	CONNECTOR-HEADER	1	SA	
J501	4	3722-001692	JACK-MODULAR	1	SA	
J501	4	3722-001692	JACK-MODULAR	1	SA	
J500	4	3722-002132	JACK-DC POWER	1	SA	
J500	4	3722-002132	JACK-DC POWER	1	SA	
J509	4	3722-002365	JACK-PHONE	1	SA	
J509	4	3722-002365	JACK-PHONE	1	SA	
J502	4	3722-002382	JACK-USB	1	SA	
J502	4	3722-002382	JACK-USB	1	SA	
J512	4	3722-002416	JACK-PHONE	1	SA	
J512	4	3722-002416	JACK-PHONE	1	SA	
J508	4	3722-002610	JACK-USB	1	SA	
J508	4	3722-002610	JACK-USB	1	SA	
J513	4	4309-001020	BATTERY-HOLDER	1	SA	
J513	4	4309-001020	BATTERY-HOLDER	1	SA	
PCB	4	BA41-00791A	PCB MAIN	1	SNA	
PCB	4	BA41-00791A	PCB MAIN	1	SNA	
PCB	4	BA41-00792A	PCB MAIN	1	SNA	
PCB	4	BA41-00792A	PCB MAIN	1	SNA	
PCB	4	BA41-00811A	PCB-MAIN	1	SNA	
PCB	4	BA41-00811A	PCB-MAIN	1	SNA	
M1	4	BA61-00784A	SUPPORT-VIDEO_BD	1	SA	
M1	4	BA61-00784A	SUPPORT-VIDEO_BD	1	SA	
M2	4	BA61-00784A	SUPPORT-VIDEO_BD	1	SA	
M2	4	BA61-00784A	SUPPORT-VIDEO_BD	1	SA	
M501	4	BA61-00784A	SUPPORT-VIDEO_BD	1	SA	
M501	4	BA61-00784A	SUPPORT-VIDEO_BD	1	SA	
M502	4	BA61-01103A	SUPPORT-MINICARD45	1	SNA	
M502	4	BA61-01103A	SUPPORT-MINICARD45	1	SNA	
EMI1	4	BA70-00601A	GASKET-EMI	1	SNA	
EMI1	4	BA70-00601A	GASKET-EMI	1	SNA	
M500	4	BA70-00601A	GASKET-EMI	1	SNA	
M500	4	BA70-00601A	GASKET-EMI	1	SNA	

1. Precautions

1) General After-Sales Service Precautions

(1) Do not let customers repair the product themselves.

☞ There is a danger of injury and the product life time may be shortened.

(2) Make sure to disconnect the power cord from the wall outlet before repairing the product (especially for after-sales service of electric parts).

☞ There is a danger of electric shock.

(3) Do not let customers plug several electric home appliances into a single wall outlet at the same time

☞ There is a danger of fire due to overheating.

(4) Check if the power plug or wall outlet are damaged in any way. ☞ If a defect is found, repair or replace it immediately. (There is a danger of electric shock or fire)

(5) Make sure that it is properly grounded. (Check the ground of the wall outlet)

☞ Electricity leakage may cause electric shock.

(6) Do not spray water on to the product to clean it.

☞ There is a danger of electric shock or fire and it may shorten the lifetime of the product.

(7) Check the assembly status of the product after the after-sales service.

☞ The assembly status of the product must be the same as before the after-sales service.

(8) Unplug the power cord holding the power plug (and not the cord).

☞ If the cord is disconnected, it may cause electric shock or fire.

(9) Repair the product using only authorized parts.

(10) Keep the product away from heating devices such as heaters.

☞ Exposure to heaters may cause deformation of the product or fire.

1. Precautions

2) Safety Precautions

(1) EMI

This device has been registered regarding EMI for residential use. It can be used in all areas.

(2) Circuit Test (Logic Test) Precautions

The LSI and MSI used in this product are semiconductor integrated circuits based on MOS-FET or CMOS. Since these types of devices are highly susceptible to static electricity or current leakage, an isolation break may be caused. Therefore read and follow the instructions below.

1. When handling an LSI or MSI, make sure your body is grounded through a few mega-ohms of resistance. In addition, wear gloves and a jacket made of cotton and not of synthetic fibers that easily generate static electricity.
2. When repairing the product, place a conductive material (e.g. aluminum foil) grounded to the earth on the worktable.
3. You must use a soldering iron without a leakage current.
4. Do not touch the pin of an IC and carefully insert the IC into the black plastic package.
5. When inserting an IC into a PCB, be careful with the direction of the IC. When installing an IC in the wrong direction, it might become damaged.
6. When carrying an IC, package the IC with conducting material such as aluminum foil or conducting sponge so as to keep the voltage level of each of the terminals the same.
7. Since the storage temperature of an IC is between -20 ~ +70 degrees, keep it at room temperature, if possible.
8. When installing or removing a device from a PCB or installing or removing a board, you must disconnect the power before taking any action.
9. When soldering an IC, solder it in as short a time as possible so that unnecessary heat is not applied to the device.
10. Avoid leaving excessive amounts of flux within a custom IC or between the pins when soldering a custom IC.
11. Take care to not damage the board when installing or separating an Option Board.
12. Take care to not break the printed circuit pattern on the PCB when separate an IC.

1. Precautions

3) Ground

The product must be grounded to protect it from static electricity and other dangers. When using a multitap, please use a multitap with a ground terminal only.

If you use a 220V wall outlet with a ground terminal, you do not need to ground it additionally. Avoid using wall outlets if they are not grounded even if they have a ground terminal.

To ground the product, connect the ground to an exclusive ground terminal or metal water pipe. Connect the ground cable to the ground terminal at the rear of the main body. To ground the product, connect the ground terminal of the product to a metal water pipe, wall outlet or exclusive ground terminal with an electric wire equal to or thicker than #18.

Never ground the product to a PVC water pipe, phone line, TV, radio antenna, aluminum window or gas pipe, because this does not actually ground the product and may be dangerous.

4) Static Electricity Precautions

Many parts of the system are susceptible to static electricity. Using an electrostatic discharge (ESD) device is very important for the safety of the user and the user's surroundings. Using an ESD device increases the probability of a successful repair and lowers the expenses for damaged parts.

To prevent static electricity, follow the instructions below.

- (1) Perform the repair in a location without static electricity.
- (2) Touch your hands to a metal water pipe or some metal object connected to the ground to discharge any static electricity from your body before handling the parts.
- (3) Touch only the edges of the board, if possible.
- (4) Do not touch any parts unless absolutely necessary
- (5) Disassemble the parts on the anti-static-electricity pad.
- (6) When a board is not installed in the system, package the board with an anti-static-electricity packaging.