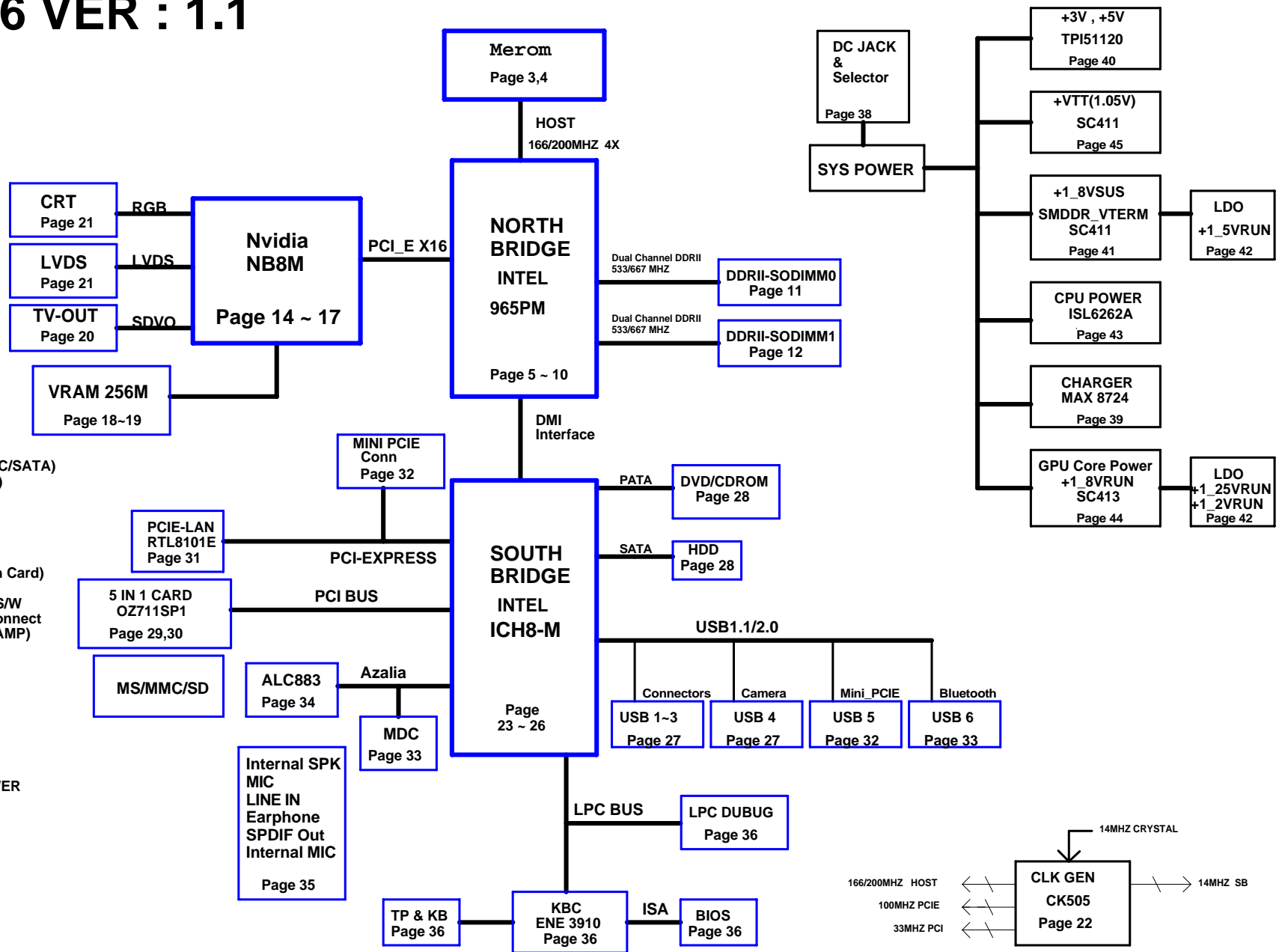


MS-1636 VER : 1.1

- 01:BLOCK DIAGRAM
- 02:PLATFORM
- 03:Merom-1 CPU (HOST BUS)
- 04:Merom-2 CPU (POWER/GND)
- 05:i965PM-1 (HOST)
- 06:i965PM-2 (DMI/VGA)
- 07:i965PM-3 (DDR2)
- 08:i965PM-4 (Power-1)
- 09:i965PM-5 (Power-2)
- 10:i965PM-6 (GND)
- 11:DDR2_SODIMM0
- 12:DDR2_SODIMM1
- 13:DDR2_Termination
- 14:NB8M-1 (HOST INTERFACE)
- 15:NB8M-2 (IO INTERFACE)
- 16:NB8M-3 (MEM INTERFACE)
- 17:NB8M-4 (Power & GND)
- 18:GDDR3 32MX16 BGA_A
- 19:GDDR3 32MX16 BGA_B
- 20:S-VIDEO Connect
- 21:CRT & LVDS Connect
- 22:Clock GEN (SLG8P512)
- 23:ICH8-M-1 (CPU/IDE/Azalia/LPC/SATA)
- 24:ICH8-M-2 (PCI/USB/PCIE/DMI)
- 25:ICH8-M-3 (SMBUS / GPIO)
- 26:ICH8-M-4 (POWER/GND)
- 27:USB2.0 Connect & Camera
- 28:HDD & CDROM Connect
- 29:OZ711SP1-1 (PCI / 1394)
- 30:OZ711SP1-2 (CardBus / Flash Card)
- 31:RTL8101E (PCI-E Giga LAN)
- 32:MiniPCI-E Connect & LED & S/W
- 33:MDC Connect & Bluetooth Connect
- 34:ALC883(Audio) & APA2031 (AMP)
- 35:SPK & HP & MIC
- 36:ENE3910(KBC)
- 37:POWER GOOD & FAN
- 38:Battery Select
- 39:Battery Charger
- 40:System Power (3V/5V)
- 41:DDR POWER (1.8V)
- 42:POWER (1.5V / 1.25V)
- 43:CPU POWER
- 44:GFX_CORE & 1_8VRUN POWER
- 45:VTT POWER
- 46:Screw
- 47:EMI Suggest
- 48:Launch Board for Channel
- 49:TP Board for Channel
- 50:Power on Sequency



P30-1636111-D05, 崑崙
P30-1636111-H73, 瀚宇博德

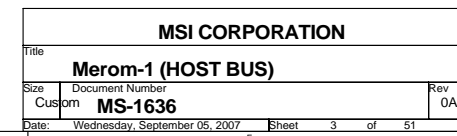
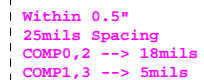
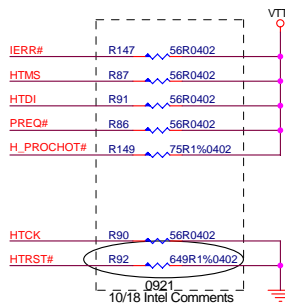
Voltage Rails

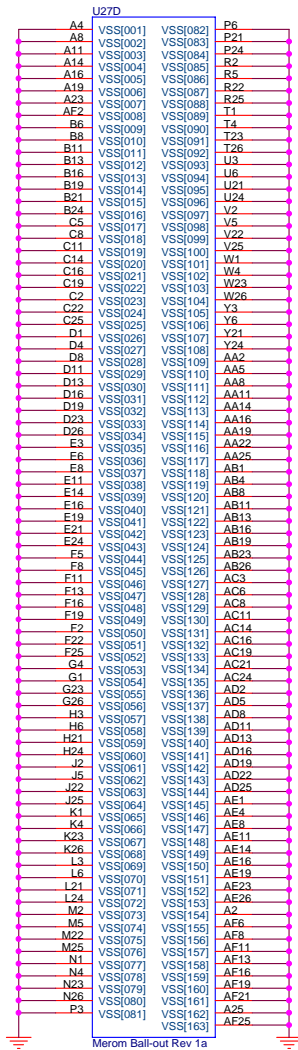
Voltage	Description	Control Signal
PWR_SRC	AC ADAPTER OR BATTERY IN	
V_CORE	Core Voltage for Processor	VR_ON
+VTT	1.05 rail for Processor & 945GM I/O	PM_SLP_S3# (RUN_ON)
+1_5VRUN	1.5V switched power rail(off in S3-S5)	RUN_ON(+1_8VSUS-LDO)
+1_25VRUN	1.25V power rail NB PLL and PXE (off in S3-S5)	NV_PWRON(+1_8VRUN-LDO)
+3VRUN	3.3V switched power rail(off in S3-S5)	RUND (RUN_ON)
+5VRUN	5.0V switched power rail(off in S3-S5)	RUND (RUN_ON)
SMDDR_VTERM	0.9V DDR Termination voltage (off in S4-S5)	PM_SLP_S4# (DIMM_ON)
+1_8VDIMM	1.8V power rail DDRII (off in S4-S5)	PM_SLP_S4# (DIMM_ON)
+3VSUS	3.3V power rail (off in S4-S5)	SUS_ON
+5VSUS	5.0V power rail (off in S4-S5)	SUS_ON
+3VALW	3.3V always on power rail	PWR_SRC
+5VALW	5.0V always on power rail	PWR_SRC
+V5_AUDIO	5.0V Power rail Audio codec(off in S3-S5)	RUND
+G73M_CORE	Core Voltage for External Graphics NB8M	VGA-PGOOD
+1_8VRUN	1.8V power rail GDDRIII (off in S3-S5)	NV_DELAY_PWRON
+1_2VRUN_GFX	1.2V power rail NB8M PLL (off in S3-S5)	NV_PWRON(+1_8VRUN-LDO)

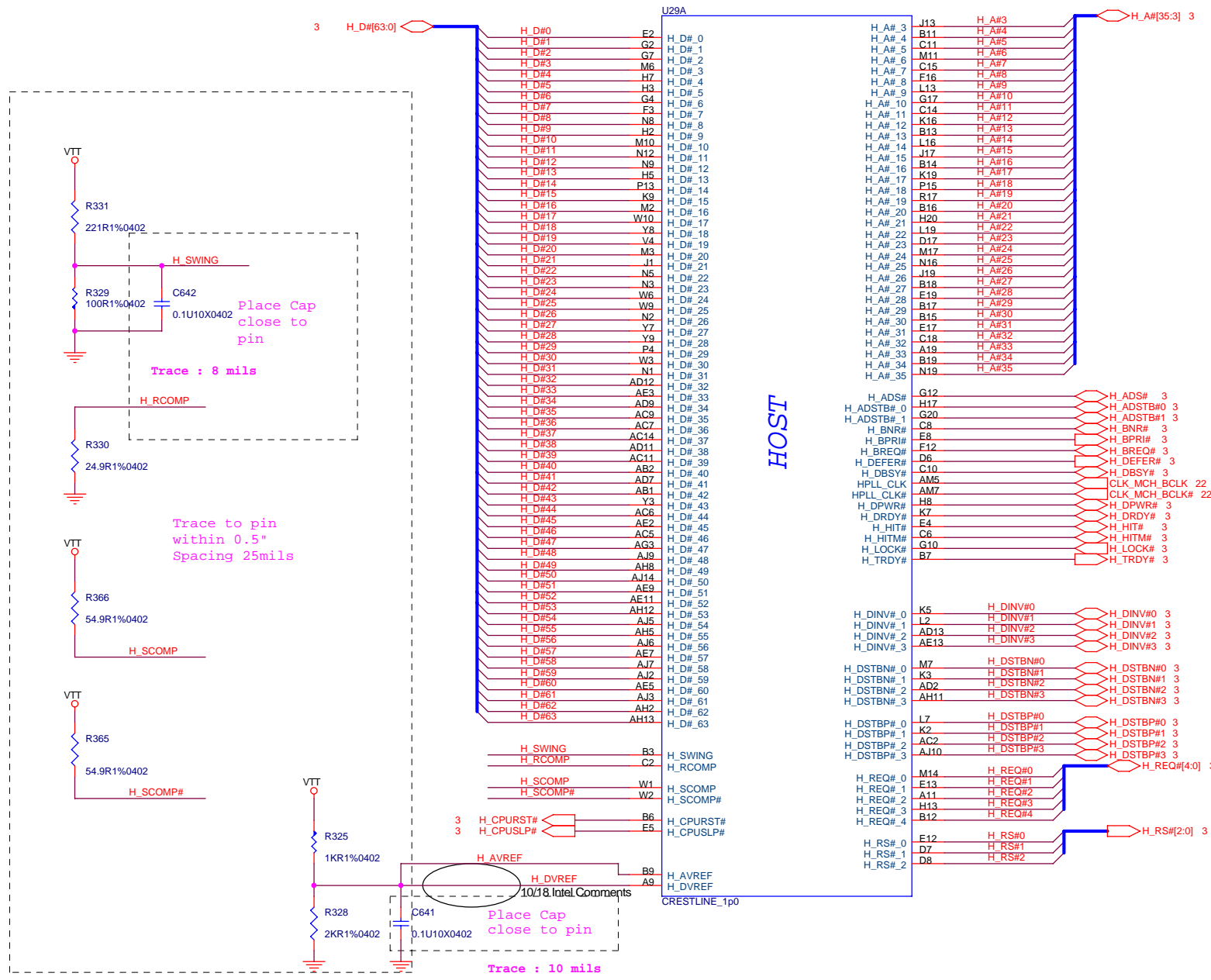
POWER STATES

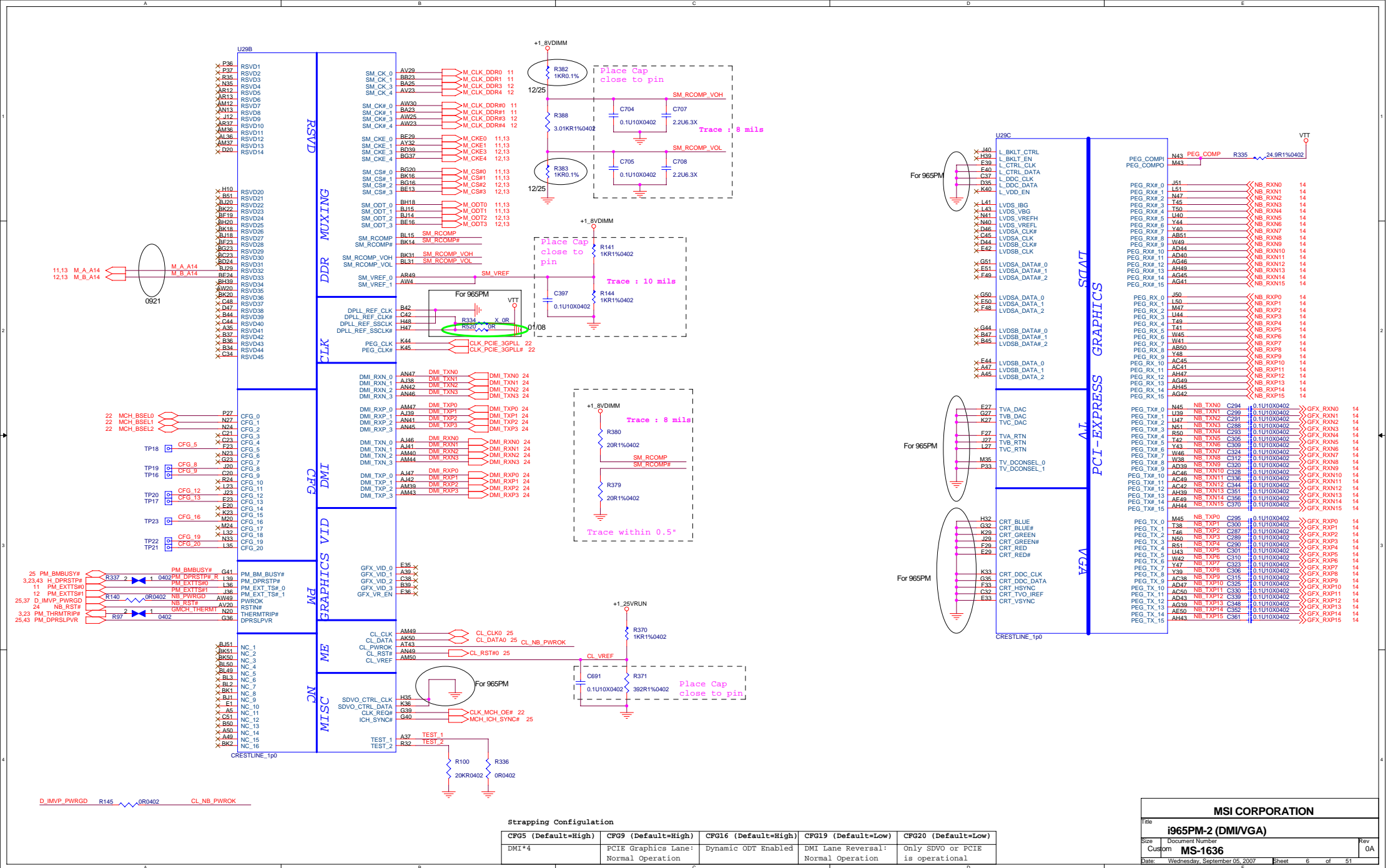
STATE \ SIGNAL	SLP_S3#	SLP_S4#	SLP_S5#	+V*ALWAYS	+V*SUS	+V*RUN	Clocks
Full ON	HIGH	HIGH	HIGH	ON	ON	ON	ON
S1(Power On Suspend)	HIGH	HIGH	HIGH	ON	ON	ON	LOW
S3(Suspend to RAM)	LOW	HIGH	HIGH	ON	ON	OFF	OFF
S4(Suspend to Disk)	LOW	LOW	HIGH	ON	OFF	OFF	OFF
S5 / Soft OFF	LOW	LOW	LOW	ON	OFF	OFF	OFF

Note : WHEN AC MODE , System turn on then +V*SUS will always keep high









Strapping Configuration

CFG5 (Default=High)	CFG9 (Default=High)	CFG16 (Default=High)	CFG19 (Default=Low)	CFG20 (Default=Low)
DMI*4	PCIe Graphics Lane: Normal Operation	Dynamic ODT Enabled	DMI Lane Reversal: Normal Operation	Only SDVO or PCIe is operational

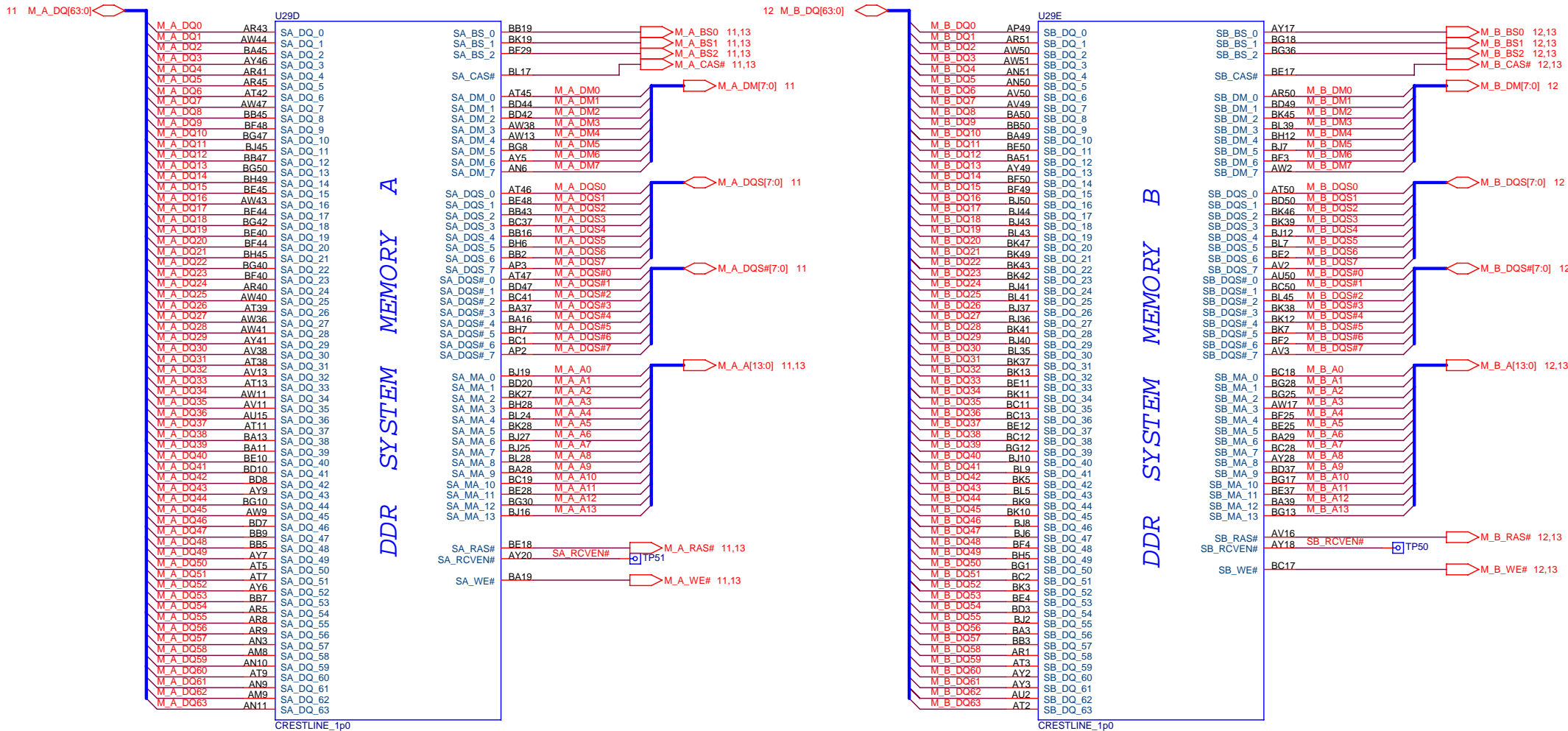
MSI CORPORATION

File: i965PM-2 (DMI/VGA)

Size: Custom Document Number: MS-1636

Rev: 0A

Date: Wednesday, September 05, 2007 Sheet: 6 of 51



VTT
(Ex- 1.3A)
(1.2A)

U29G

AT35 VCC_1
AT34 VCC_2
AC32 VCC_3
AC31 VCC_5
VCC_4
AK32 VCC_6
VCC_7
AJ31 VCC_8
AJ28 VCC_9
AH32 VCC_10
AH29 VCC_11
AF32 VCC_12

VCC CORE

R30 VCC_13

+1.8VDIMM
(2.4A)

POWER

AU32 VCC_SM_1
AU33 VCC_SM_2
AU33 VCC_SM_3
AU33 VCC_SM_4
AW33 VCC_SM_5
VCC_SM_6
AY35 VCC_SM_7
BA32 VCC_SM_8
BA33 VCC_SM_9
BA35 VCC_SM_10
BB33 VCC_SM_11
BC32 VCC_SM_12
BC33 VCC_SM_13
BC35 VCC_SM_14
BD32 VCC_SM_15
BD35 VCC_SM_16
BE32 VCC_SM_17
BE33 VCC_SM_18
BE35 VCC_SM_19
BF33 VCC_SM_20
BF34 VCC_SM_21
BG32 VCC_SM_22
BG33 VCC_SM_23
BG35 VCC_SM_24
BH32 VCC_SM_25
BH34 VCC_SM_26
BH35 VCC_SM_27
BJ32 VCC_SM_28
BJ33 VCC_SM_29
BK32 VCC_SM_30
BK33 VCC_SM_31
BK34 VCC_SM_32
BK35 VCC_SM_33
BL33 VCC_SM_34
AU30 VCC_SM_35
VCC_SM_36

VCC SM

VCC GFX NCTF

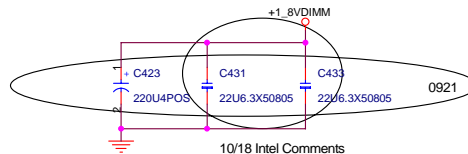
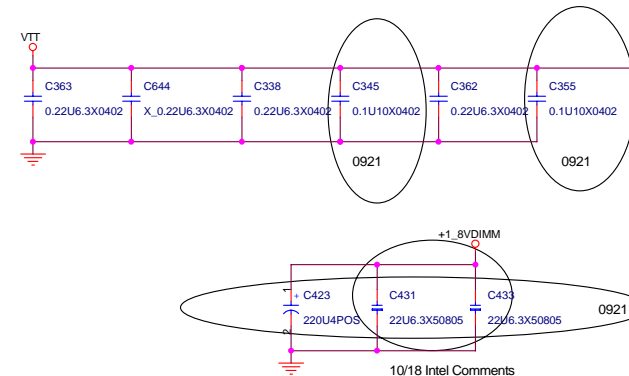
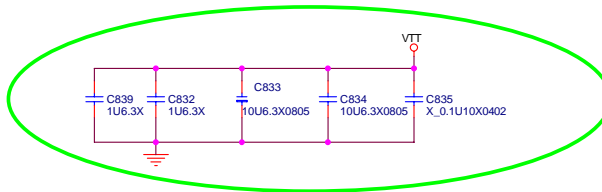
R20 VCC_AGX_1
T14 VCC_AGX_2
W13 VCC_AGX_3
W14 VCC_AGX_4
Y12 VCC_AGX_5
AA20 VCC_AGX_6
AA23 VCC_AGX_7
AA26 VCC_AGX_8
AA28 VCC_AGX_9
AB21 VCC_AGX_10
AB24 VCC_AGX_11
AC20 VCC_AGX_12
AC21 VCC_AGX_13
AC23 VCC_AGX_14
AC24 VCC_AGX_15
AC26 VCC_AGX_16
AC28 VCC_AGX_17
AC29 VCC_AGX_18
AD20 VCC_AGX_19
AD23 VCC_AGX_20
AD24 VCC_AGX_21
AD28 VCC_AGX_22
AF21 VCC_AGX_23
AF26 VCC_AGX_24
AA31 VCC_AGX_25
AH20 VCC_AGX_26
AH21 VCC_AGX_27
AH23 VCC_AGX_28
AH24 VCC_AGX_29
AH26 VCC_AGX_30
AD31 VCC_AGX_31
VCC_AGX_32
AJ20 VCC_AGX_33
AN14 VCC_AGX_34

VCC GFX

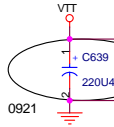
VCC SM LF

AW45 VCCSM_LF1
BC39 VCCSM_LF2
RE39 VCCSM_LF3
BD17 VCCSM_LF4
BD14 VCCSM_LF5
AW8 VCCSM_LF6
AT6 VCCSM_LF7

T17 VCC_AGX_NCTF_1
T18 VCC_AGX_NCTF_2
T19 VCC_AGX_NCTF_3
T21 VCC_AGX_NCTF_4
T22 VCC_AGX_NCTF_5
T23 VCC_AGX_NCTF_6
T25 VCC_AGX_NCTF_7
U15 VCC_AGX_NCTF_8
U16 VCC_AGX_NCTF_9
U17 VCC_AGX_NCTF_10
U19 VCC_AGX_NCTF_11
U20 VCC_AGX_NCTF_12
U21 VCC_AGX_NCTF_13
U23 VCC_AGX_NCTF_14
U26 VCC_AGX_NCTF_15
V16 VCC_AGX_NCTF_16
V17 VCC_AGX_NCTF_17
V19 VCC_AGX_NCTF_18
V20 VCC_AGX_NCTF_19
V21 VCC_AGX_NCTF_20
V23 VCC_AGX_NCTF_21
V24 VCC_AGX_NCTF_22
Y15 VCC_AGX_NCTF_23
Y16 VCC_AGX_NCTF_24
Y17 VCC_AGX_NCTF_25
Y19 VCC_AGX_NCTF_26
Y20 VCC_AGX_NCTF_27
Y21 VCC_AGX_NCTF_28
Y23 VCC_AGX_NCTF_29
Y24 VCC_AGX_NCTF_30
Y26 VCC_AGX_NCTF_31
Y28 VCC_AGX_NCTF_32
Y29 VCC_AGX_NCTF_33
AA16 VCC_AGX_NCTF_34
AA17 VCC_AGX_NCTF_35
AB16 VCC_AGX_NCTF_36
AB19 VCC_AGX_NCTF_37
AC16 VCC_AGX_NCTF_38
AC17 VCC_AGX_NCTF_39
AC19 VCC_AGX_NCTF_40
AD15 VCC_AGX_NCTF_41
AD16 VCC_AGX_NCTF_42
AD17 VCC_AGX_NCTF_43
AF16 VCC_AGX_NCTF_44
AF19 VCC_AGX_NCTF_45
VCC_AGX_NCTF_46
VCC_AGX_NCTF_47
VCC_AGX_NCTF_48
VCC_AGX_NCTF_49
VCC_AGX_NCTF_50
VCC_AGX_NCTF_51
VCC_AGX_NCTF_52
VCC_AGX_NCTF_53
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VCC_AGX_NCTF_76
VCC_AGX_NCTF_77
VCC_AGX_NCTF_78
VCC_AGX_NCTF_79
VCC_AGX_NCTF_80
VCC_AGX_NCTF_81
VCC_AGX_NCTF_82
VCC_AGX_NCTF_83



Cap close to IC Pin
Routing Trace >
10mils



U29F

AB33 VCC_NCTF_1
AB36 VCC_NCTF_2
AC33 VCC_NCTF_3
VCC_NCTF_4
AC35 VCC_NCTF_5
AC36 VCC_NCTF_6
AD35 VCC_NCTF_7
AD36 VCC_NCTF_8
AF33 VCC_NCTF_9
VCC_NCTF_10
AH33 VCC_NCTF_11
AH36 VCC_NCTF_12
AH37 VCC_NCTF_13
AJ33 VCC_NCTF_14
AJ35 VCC_NCTF_15
AK33 VCC_NCTF_16
AK35 VCC_NCTF_17
AK36 VCC_NCTF_18
AK37 VCC_NCTF_19
AJ36 VCC_NCTF_20
AM35 VCC_NCTF_21
AL33 VCC_NCTF_22
VCC_NCTF_23
AA33 VCC_NCTF_24
AA35 VCC_NCTF_25
AA36 VCC_NCTF_26
AP35 VCC_NCTF_27
AP36 VCC_NCTF_28
AR35 VCC_NCTF_29
AR36 VCC_NCTF_30
Y32 VCC_NCTF_31
Y33 VCC_NCTF_32
Y36 VCC_NCTF_33
Y37 VCC_NCTF_34
T30 VCC_NCTF_35
T34 VCC_NCTF_36
T35 VCC_NCTF_37
U29 VCC_NCTF_38
U31 VCC_NCTF_39
U32 VCC_NCTF_40
U33 VCC_NCTF_41
U35 VCC_NCTF_42
U36 VCC_NCTF_43
V32 VCC_NCTF_44
V33 VCC_NCTF_45
V36 VCC_NCTF_46
V37 VCC_NCTF_47
VCC_NCTF_48
VCC_NCTF_49
VCC_NCTF_50

POWER

VSS SCB

VCC AXM

VCC AXM NCTF

VSS NCTF

VSS_NCTF_1 T27
VSS_NCTF_2 T37
VSS_NCTF_3 U24
VSS_NCTF_4 U28
VSS_NCTF_5 V31
VSS_NCTF_6 V35
VSS_NCTF_7 AA19
VSS_NCTF_8 AB17
VSS_NCTF_9 AB35
VSS_NCTF_10 AD19
VSS_NCTF_11 AD37
VSS_NCTF_12 AF17
VSS_NCTF_13 AF35
VSS_NCTF_14 AK17
VSS_NCTF_15 AM17
VSS_NCTF_16 AM24
VSS_NCTF_17 AP26
VSS_NCTF_18 AP28
VSS_NCTF_19 AR15
VSS_NCTF_20 AR19
VSS_NCTF_21 AR28

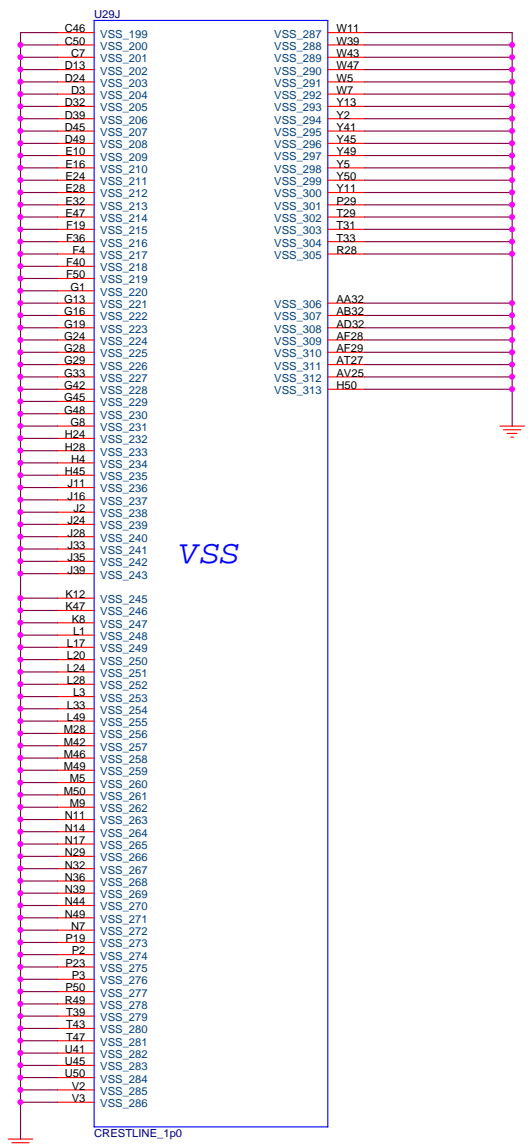
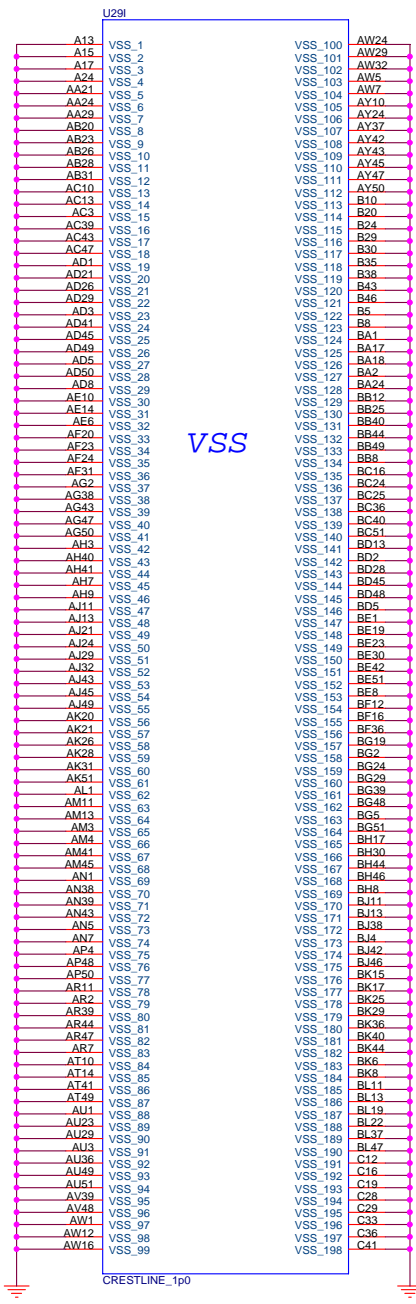
VSS SCB1 A3
VSS SCB2 B2
VSS SCB3 C1
VSS SCB4 BL1
VSS SCB5 BL51
VSS SCB6 A51

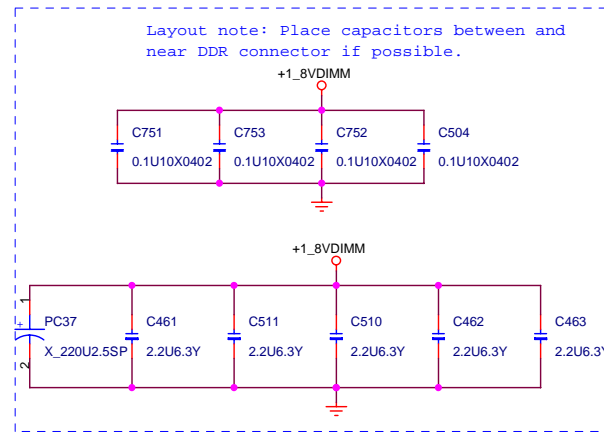
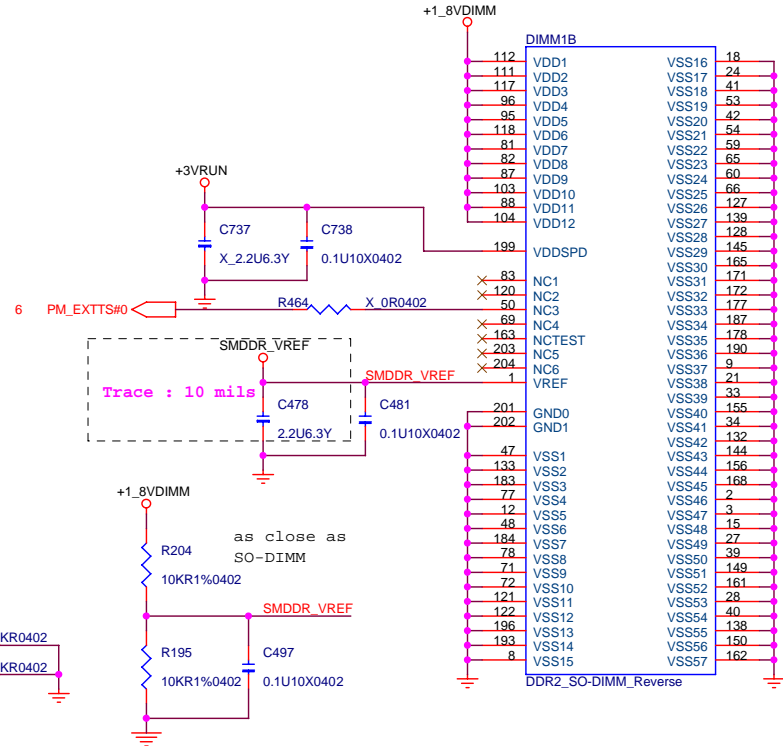
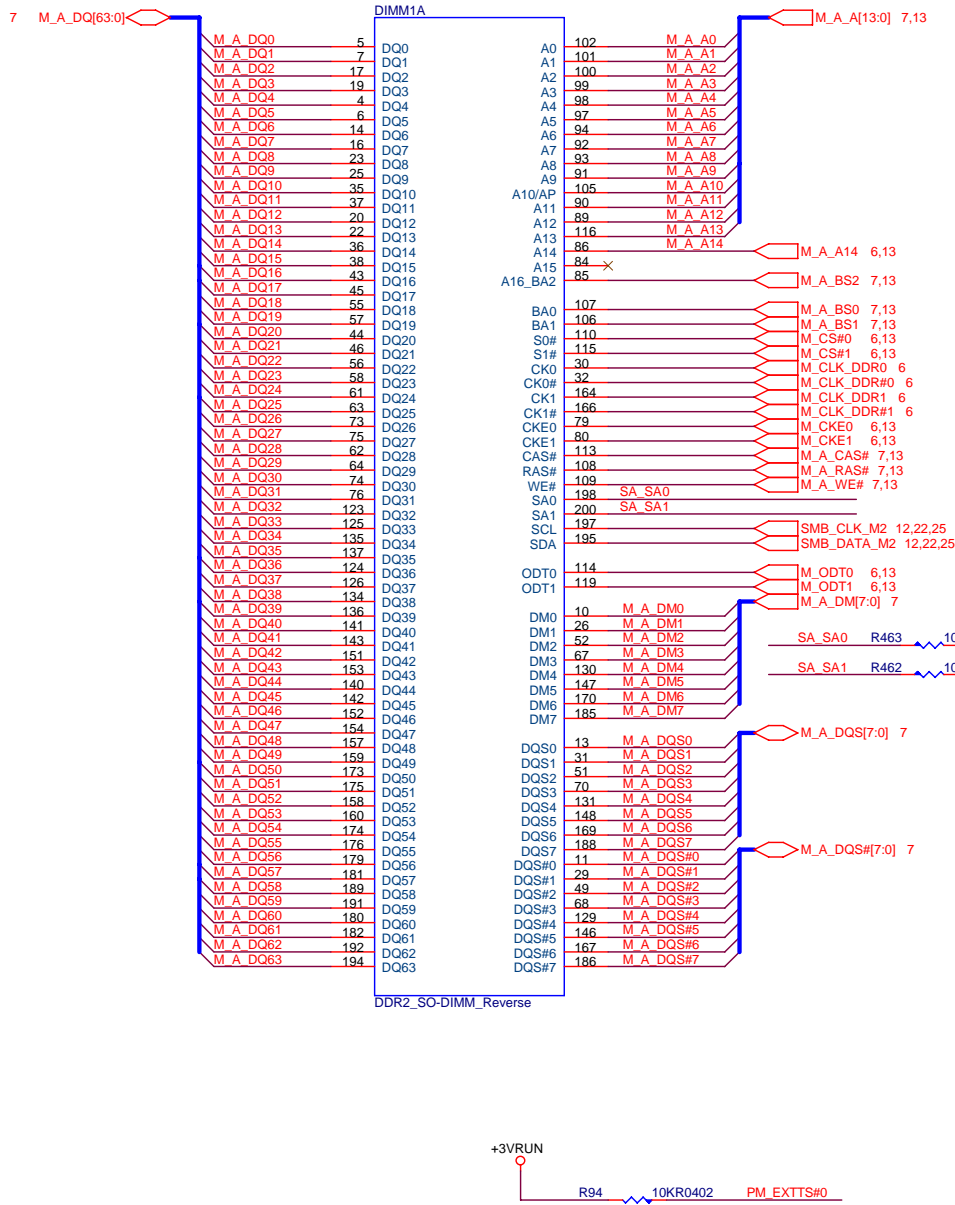
VCC_AXM_1 AT33
VCC_AXM_2 AT31
VCC_AXM_3 AK29
VCC_AXM_4 AK24
VCC_AXM_5 AK23
VCC_AXM_6 AJ26
VCC_AXM_7 AJ23

(540mA)

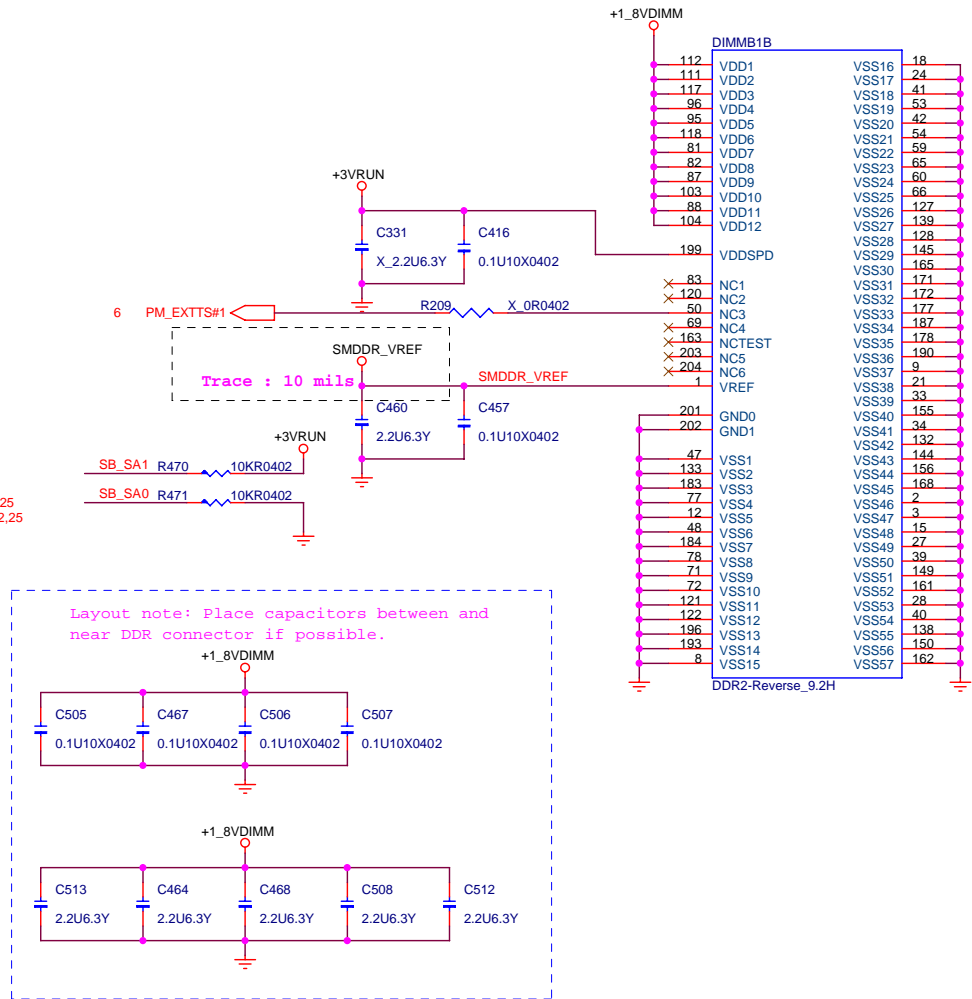
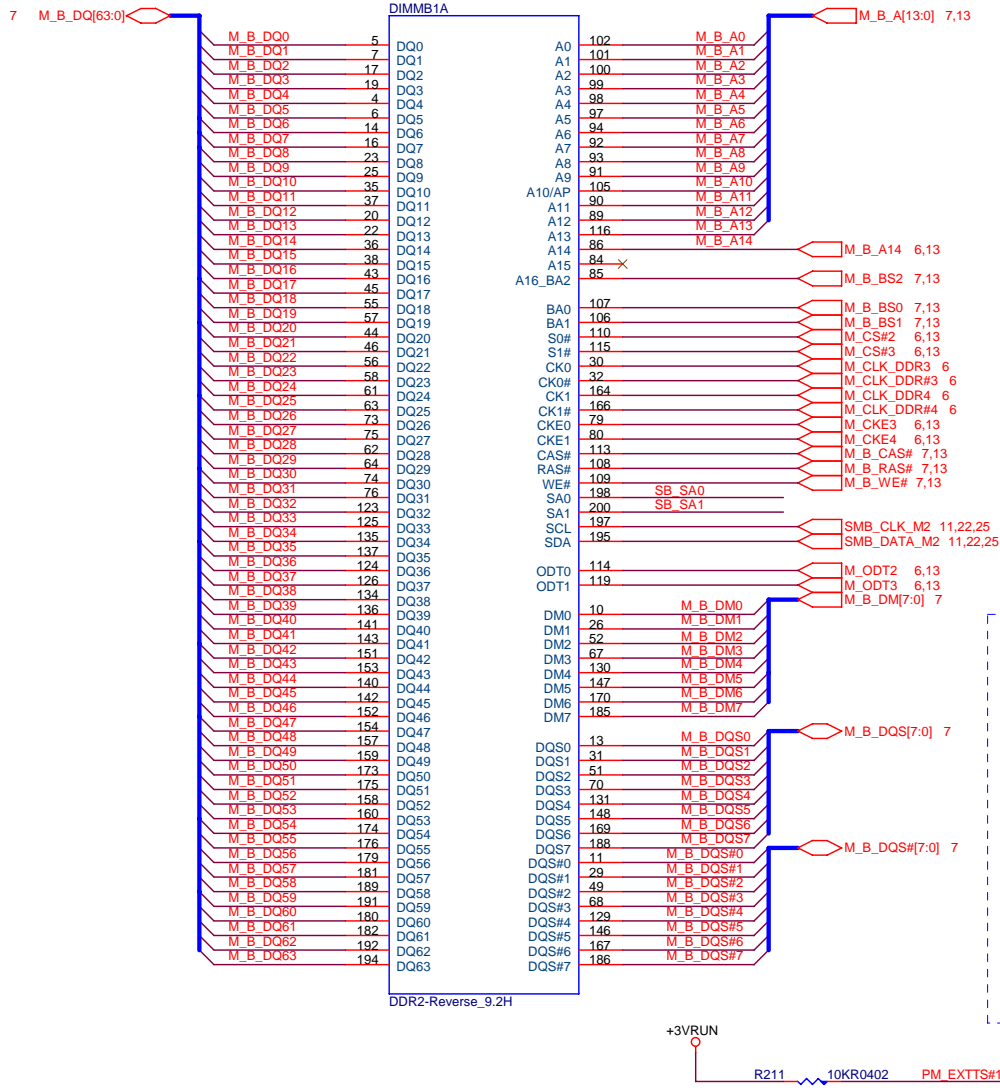
MSI CORPORATION

Title			
i965PM-4 (POWER-1)			
Size	Document Number		Rev
Custom	MS-1636		0A
Date:	Wednesday, September 05, 2007	Sheet	8 of 51

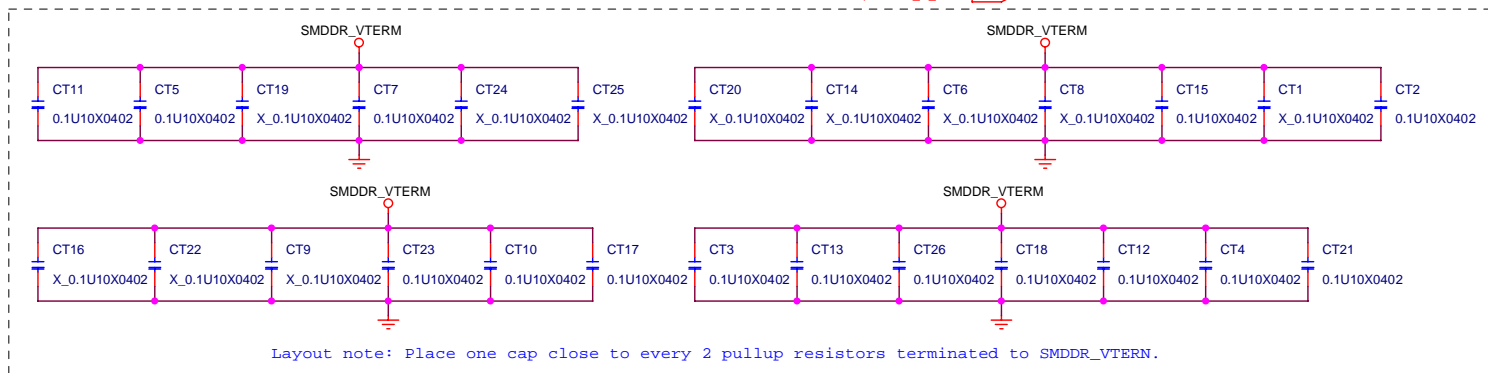
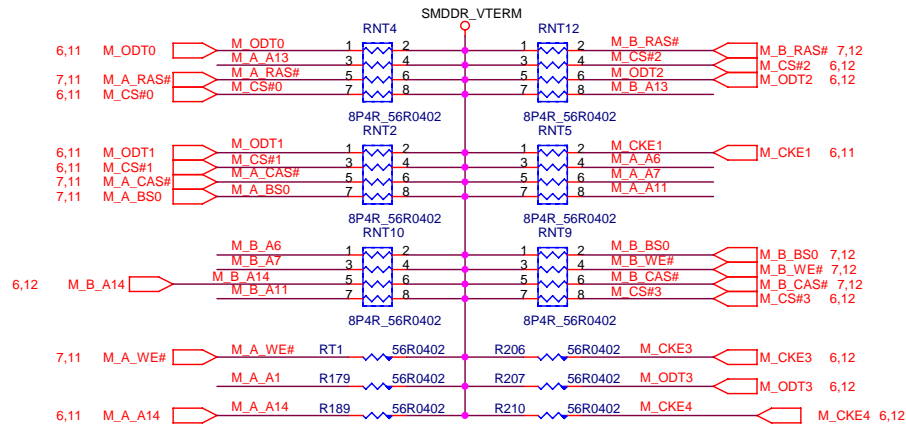
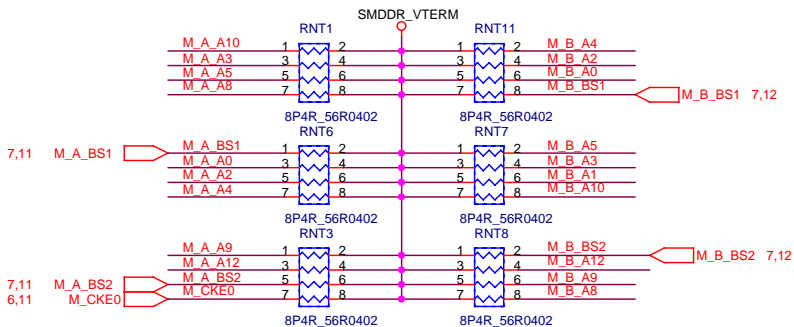




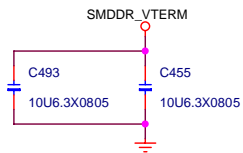
MSI CORPORATION			
Title			
DDR2 SODIMM 0			
Size	Document Number		Rev
B	MS-1636		0A
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M_A_A[13:0] M_A_A[13:0] 7,11
M_B_A[13:0] M_B_A[13:0] 7,12



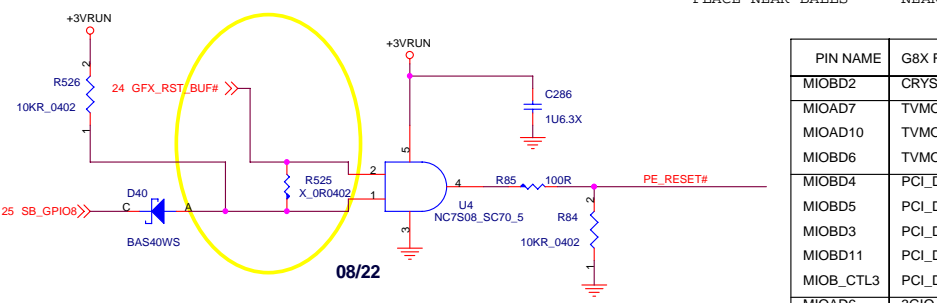
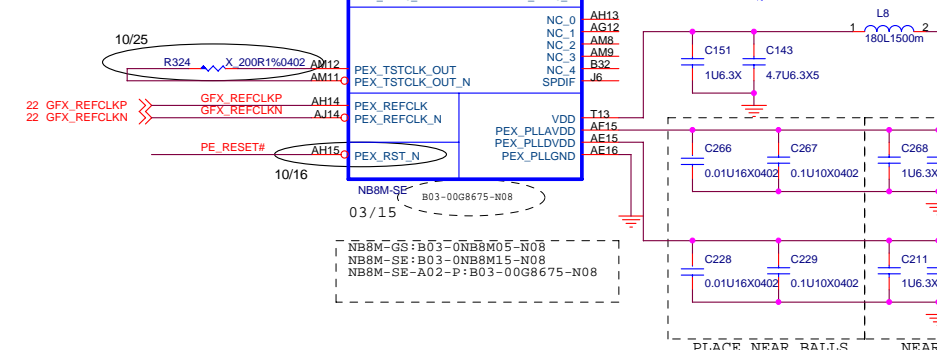
Layout note: Place one cap close to every 2 pullup resistors terminated to SMDDR_VTERM.



MSI CORPORATION			
Title			
DDR2 TREMINATION			
Size	Document Number		Rev
B	MS-1636		0A
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6 GFX_RXP[15..0] >> GFX_RXP[15..0]
6 GFX_RXN[15..0] >> GFX_RXN[15..0]

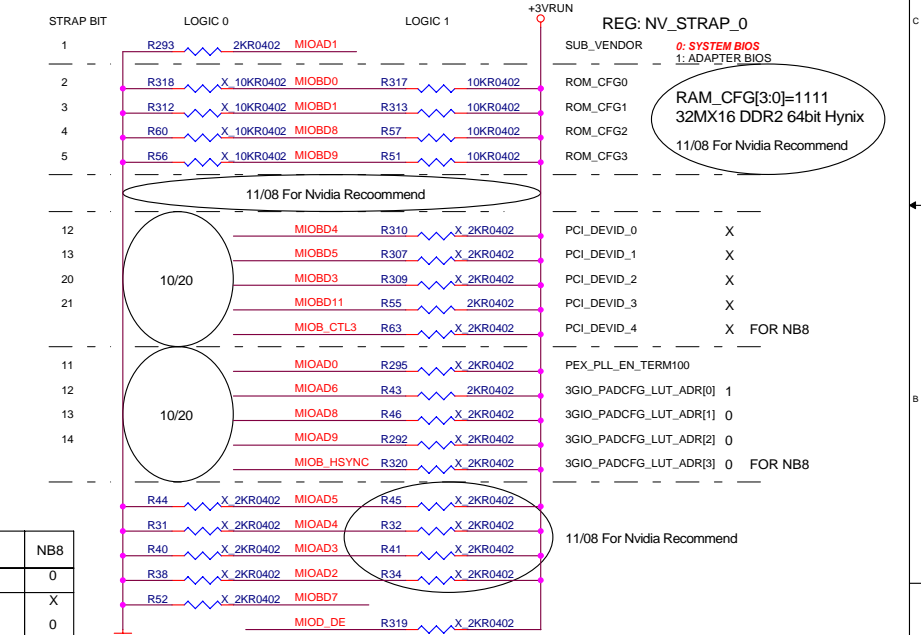
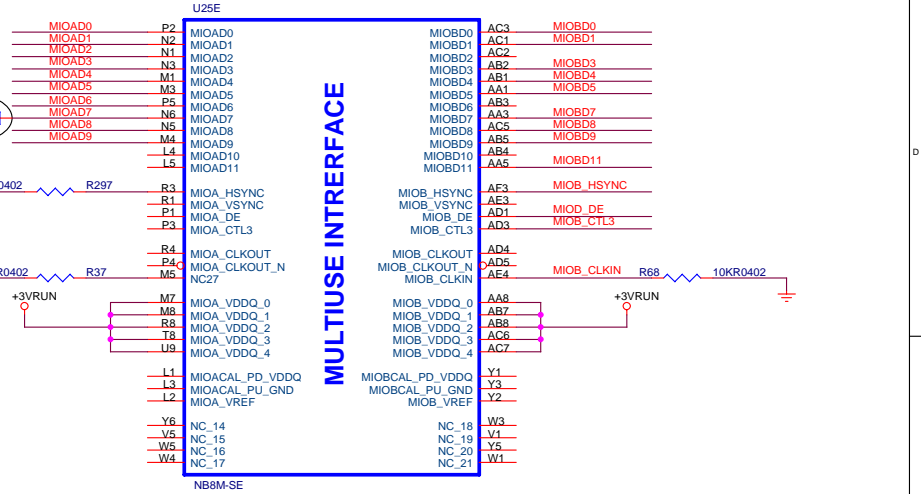
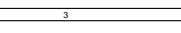
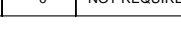
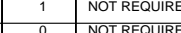
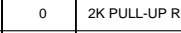
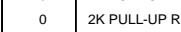
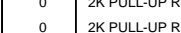
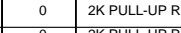
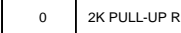
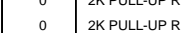
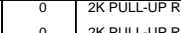
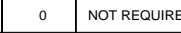
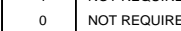
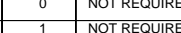
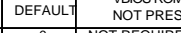
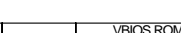
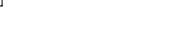
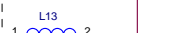
6 NB_RXP[15..0] << NB_RXP[15..0]
6 NB_RXN[15..0] << NB_RXN[15..0]



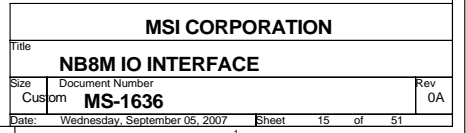
11/08 For Nvidia Recommend

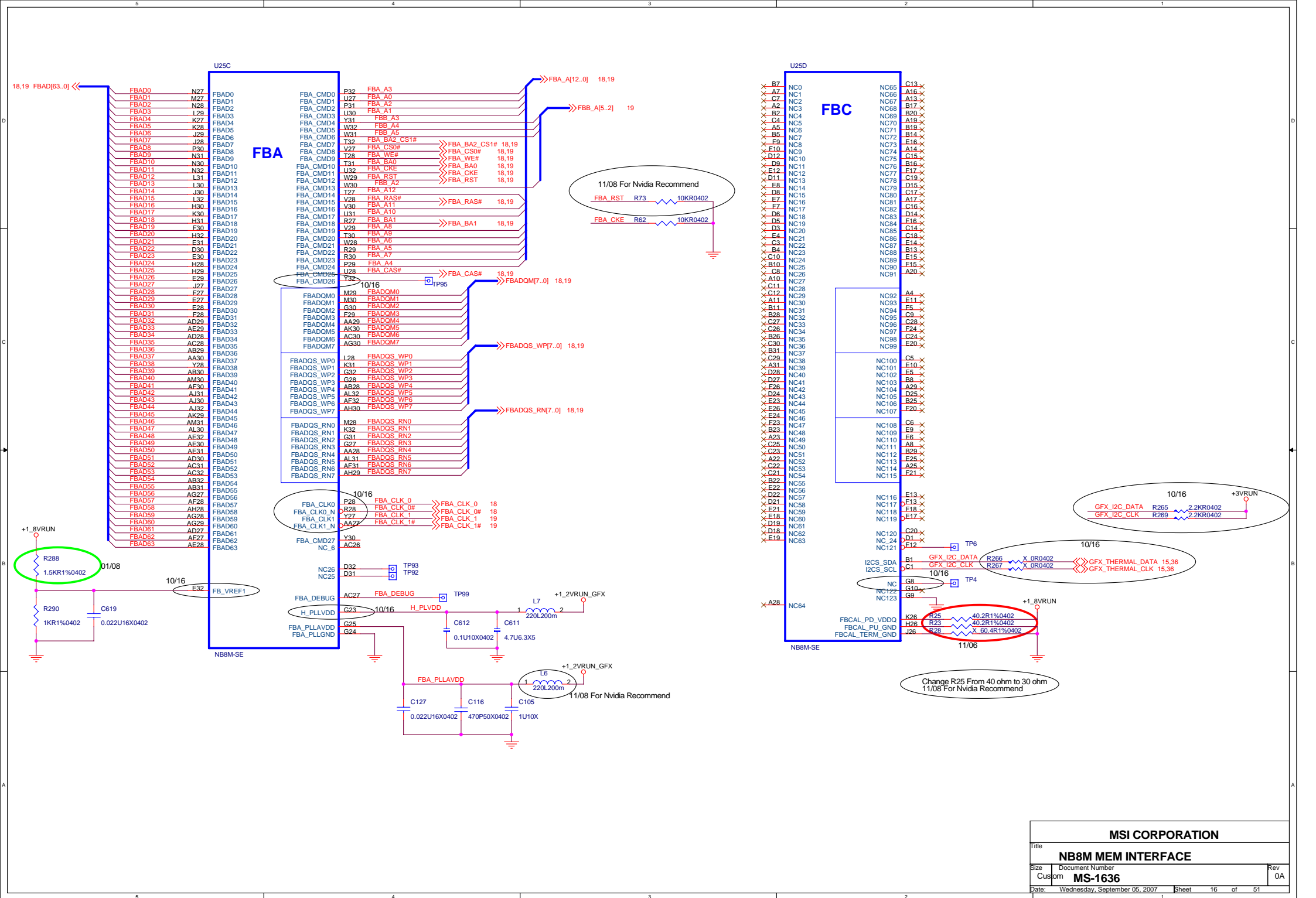


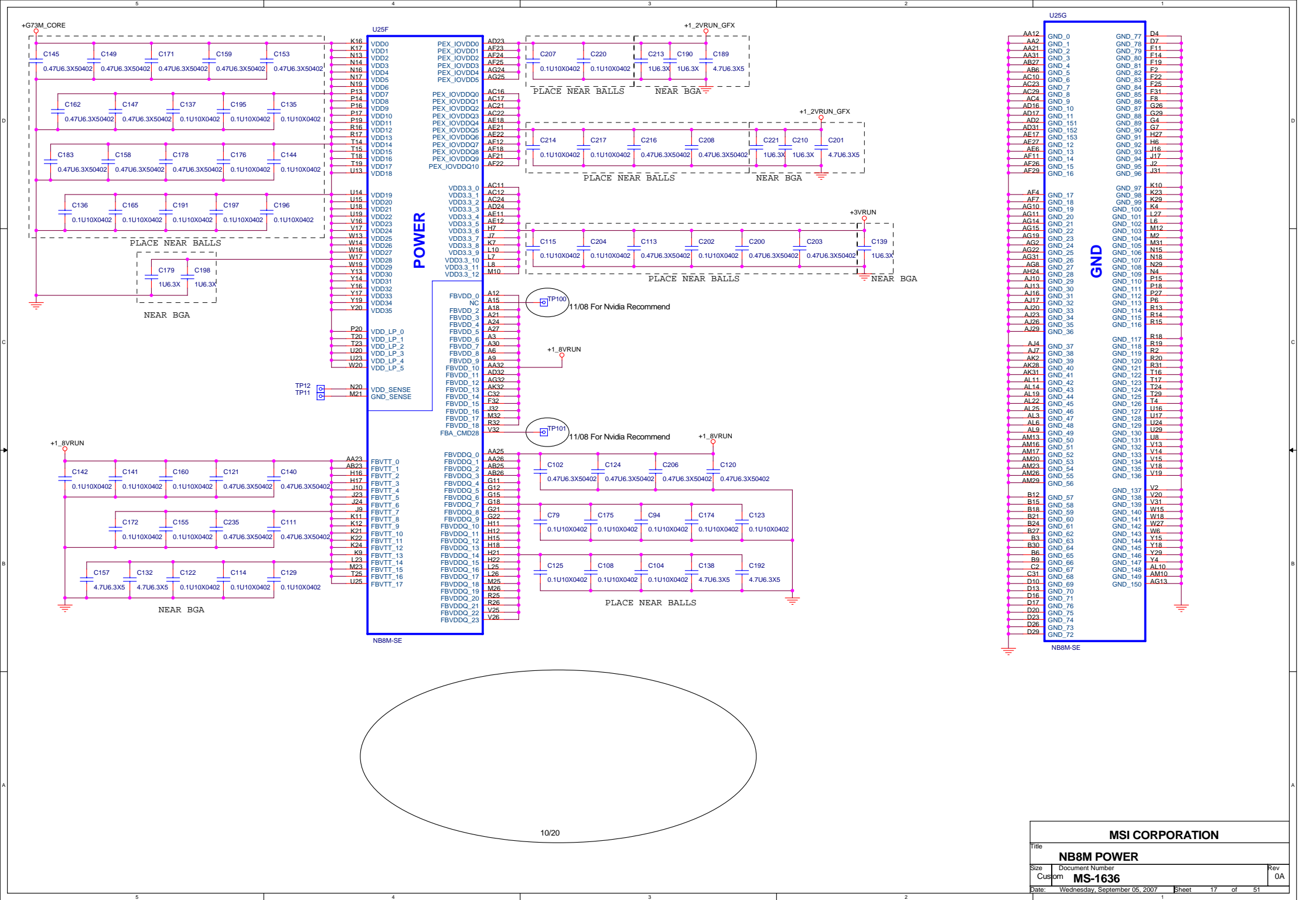
FOR EMI



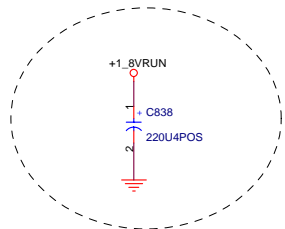
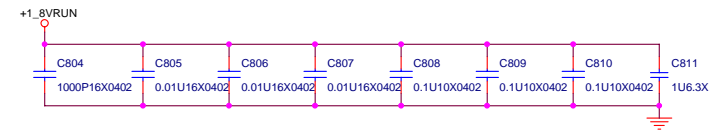
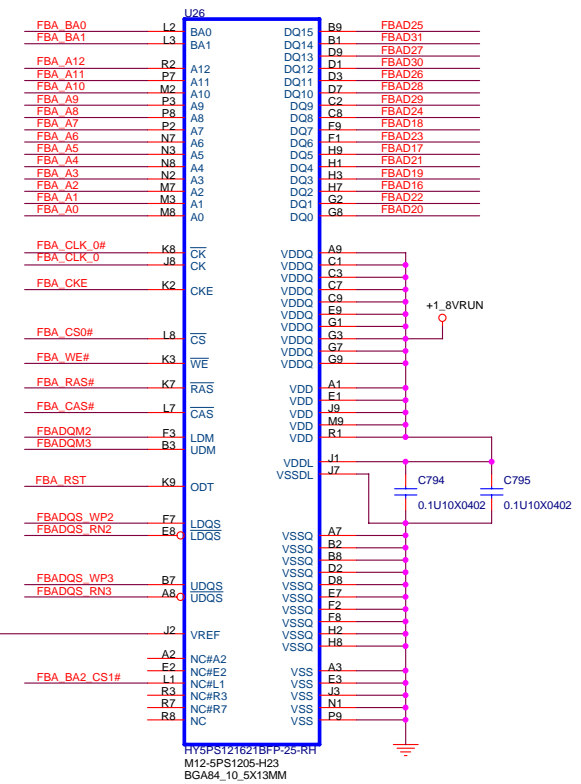
PIN NAME	G8X FUNCTION	DEFAULT	VBIOS ROM NOT PRESENT	NB8
MIOBD2	CRYSTAL	0	NOT REQUIRED	0
MIOAD7	TVMODE0	1	NOT REQUIRED	X
MIOAD10	TVMODE1	0	NOT REQUIRED	0
MIOBD6	TVMODE2	0	NOT REQUIRED	0
MIOBD4	PCI_DEVID_0	0	2K PULL-UP RECOMMENDED	X
MIOBD5	PCI_DEVID_1	0	2K PULL-UP RECOMMENDED	X
MIOBD3	PCI_DEVID_2	0	2K PULL-UP RECOMMENDED	X
MIOBD11	PCI_DEVID_3	0	2K PULL-UP RECOMMENDED	X
MIOB_CTL3	PCI_DEVID_4	0	2K PULL-UP RECOMMENDED	X
MIOAD6	3GIO_PADCFG0	0	2K PULL-UP RECOMMENDED	1
MIOAD8	3GIO_PADCFG1	0	2K PULL-UP RECOMMENDED	0
MIOAD9	3GIO_PADCFG2	0	2K PULL-UP RECOMMENDED	0
MIOB_HSYNC	3GIO_PADCFG3	0	2K PULL-UP RECOMMENDED	0
MIOBD7	PCI_I0BAR	1	NOT REQUIRED	1
MIOB_DE	BAR2_SIZE	0	NOT REQUIRED	0



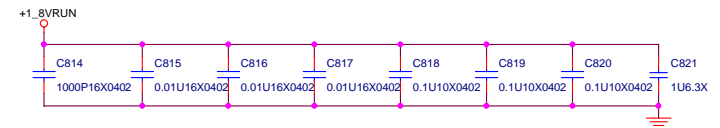
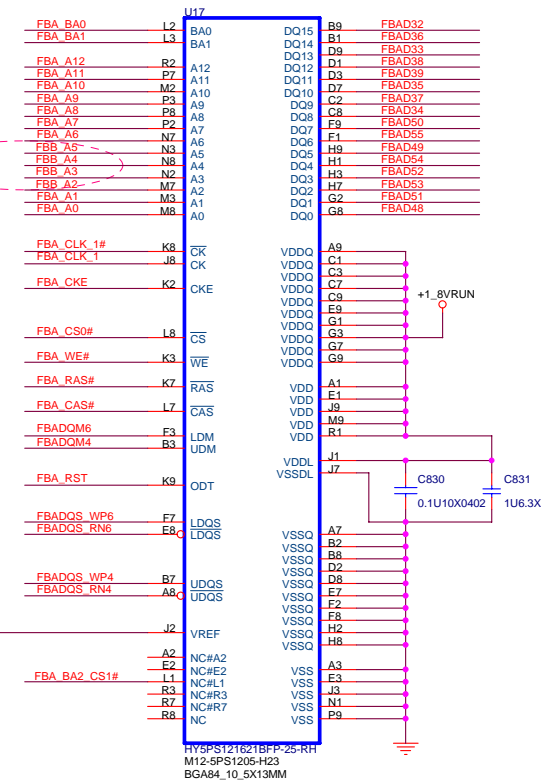




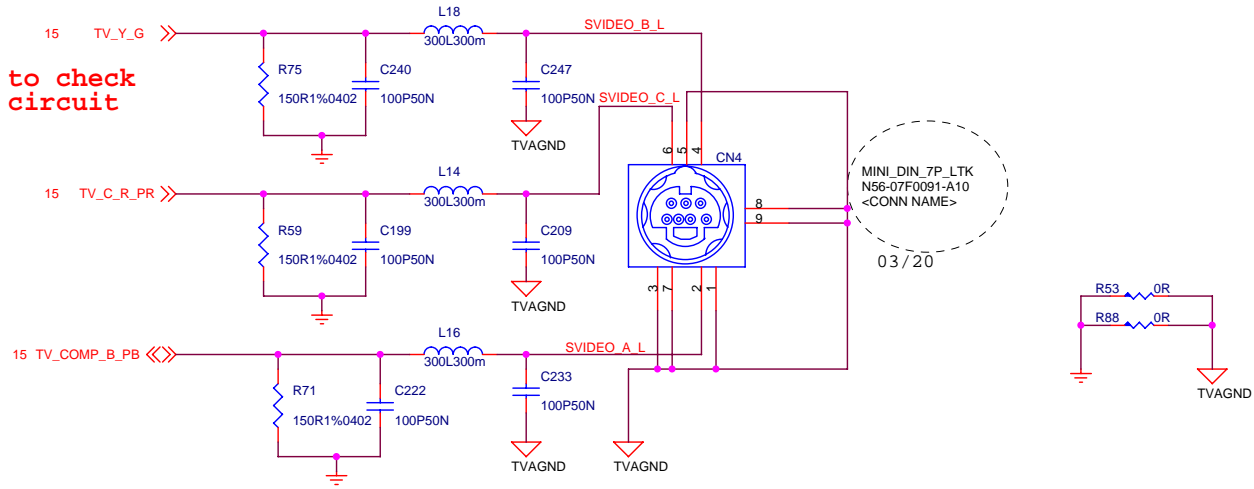
Channel A

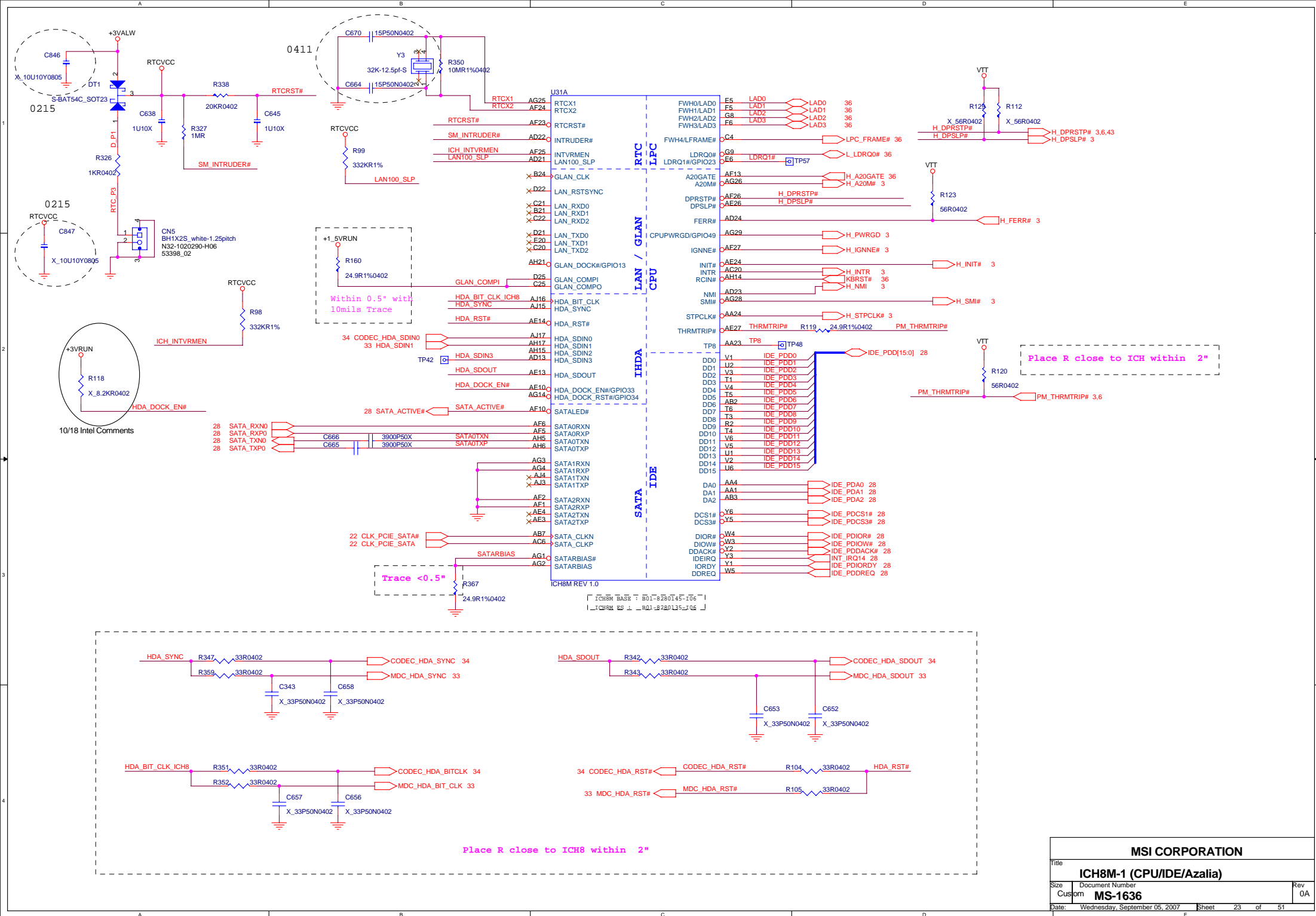


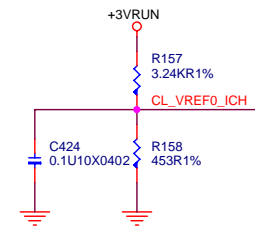
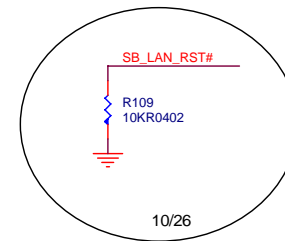
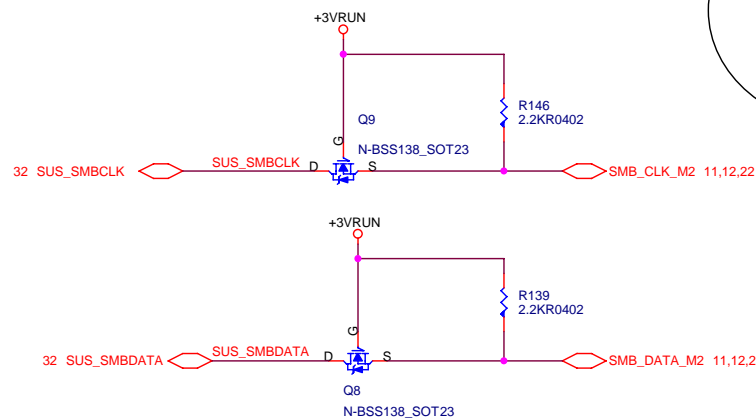
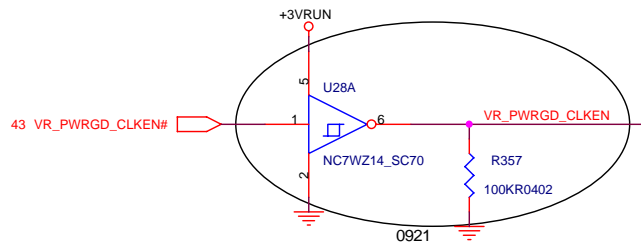
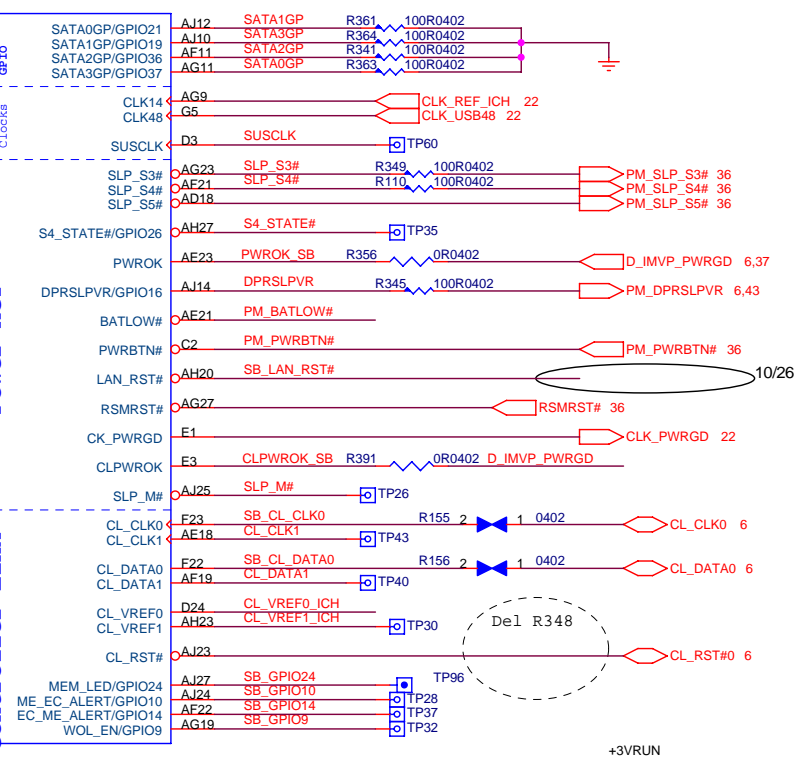
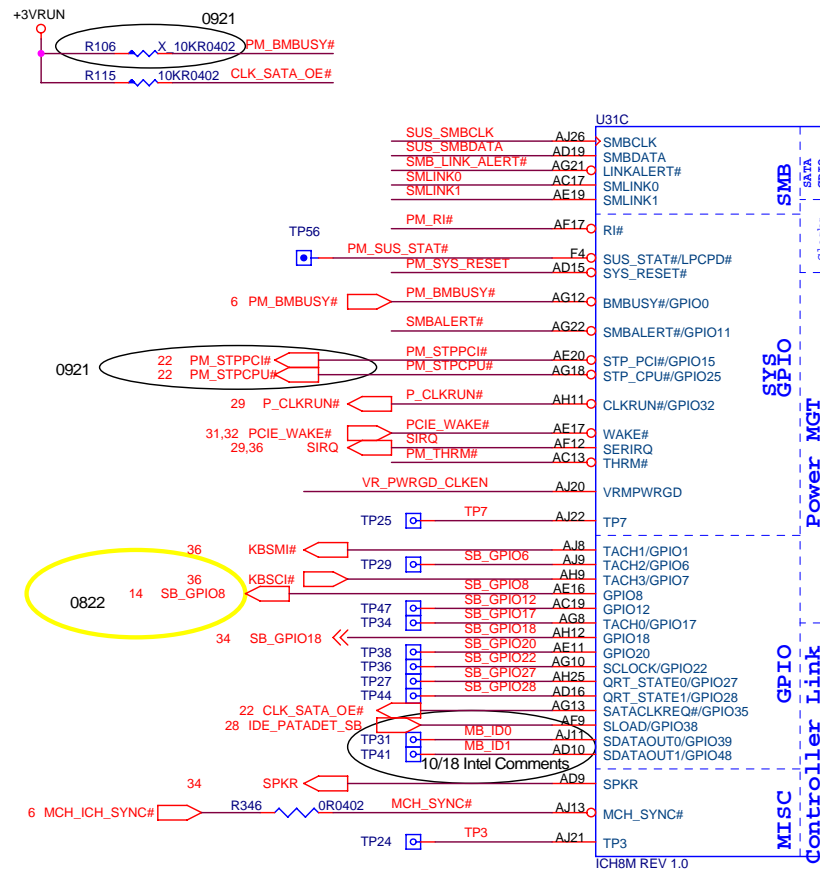
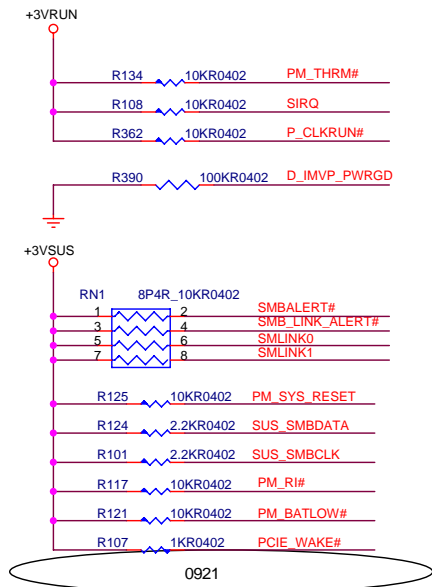
Channel A



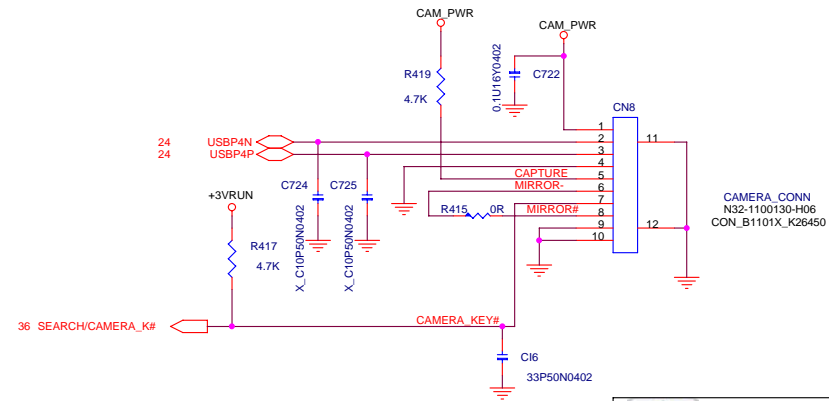
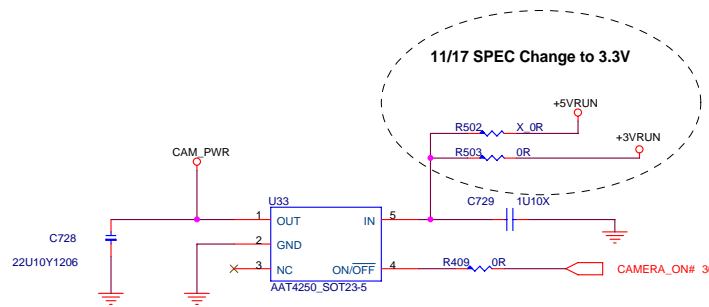
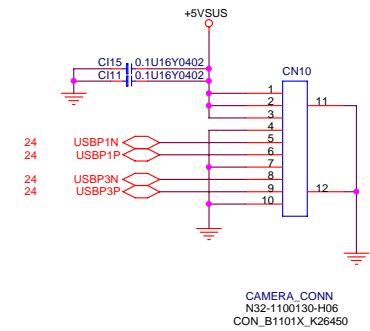
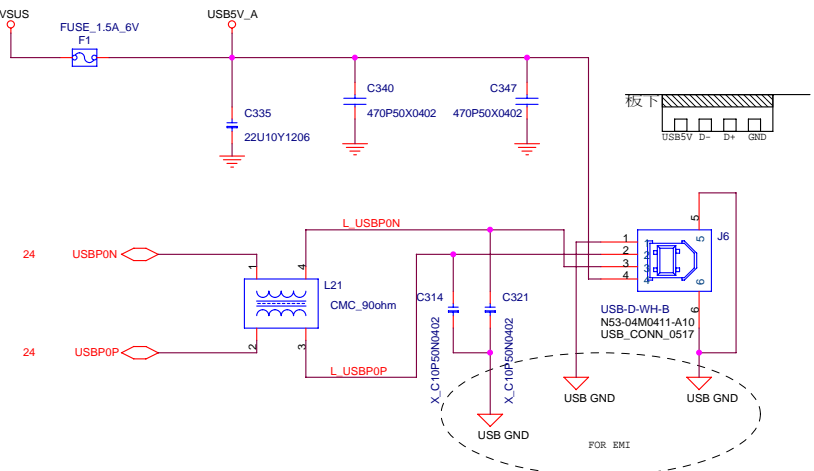
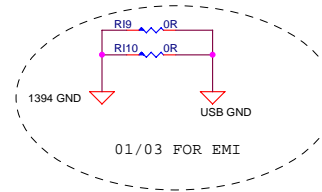
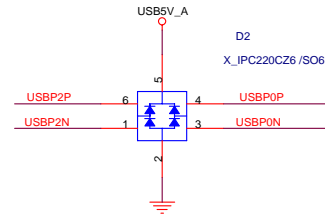
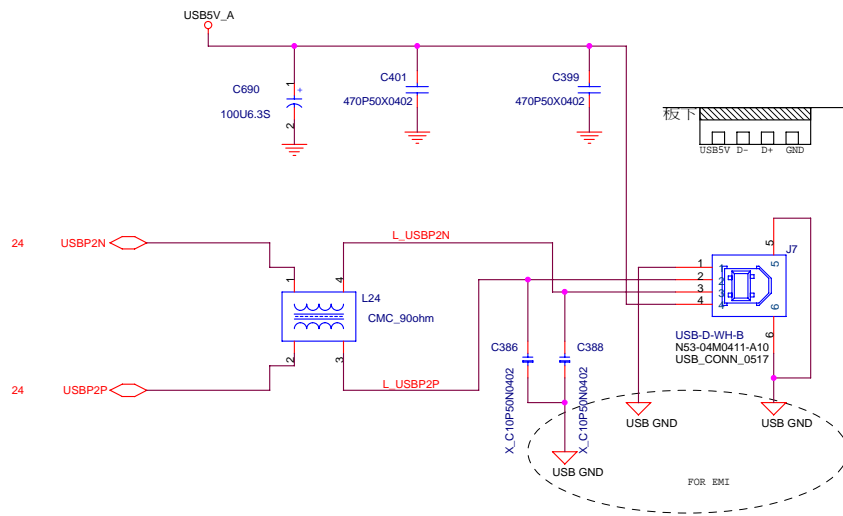
Need to check
this circuit

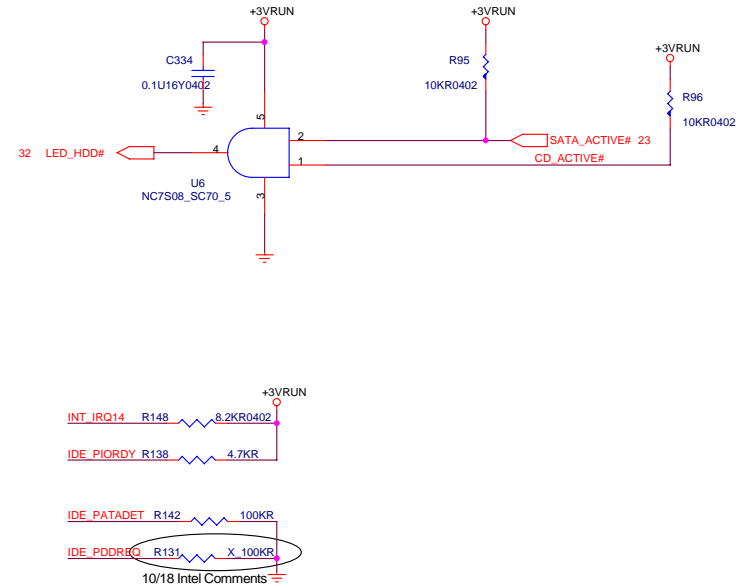
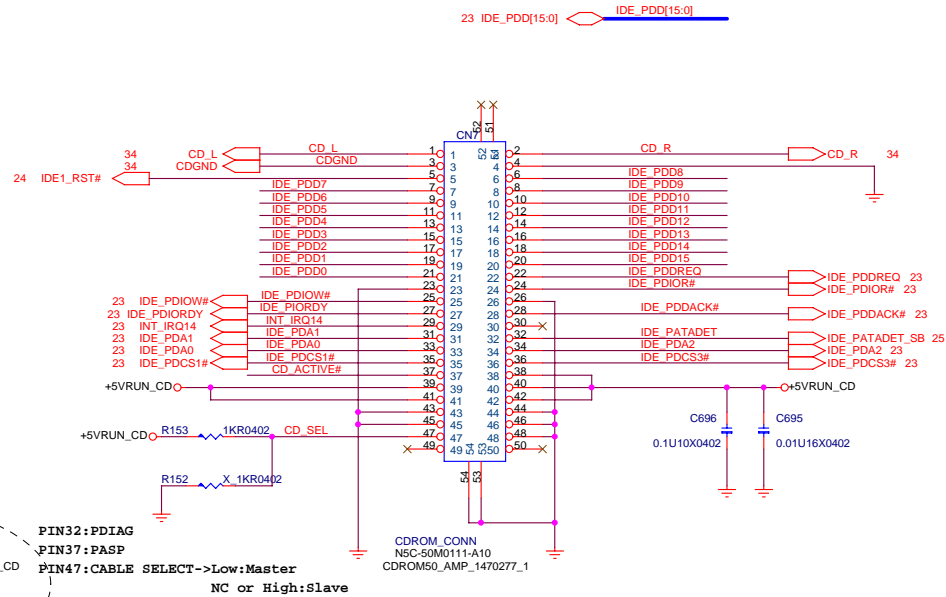
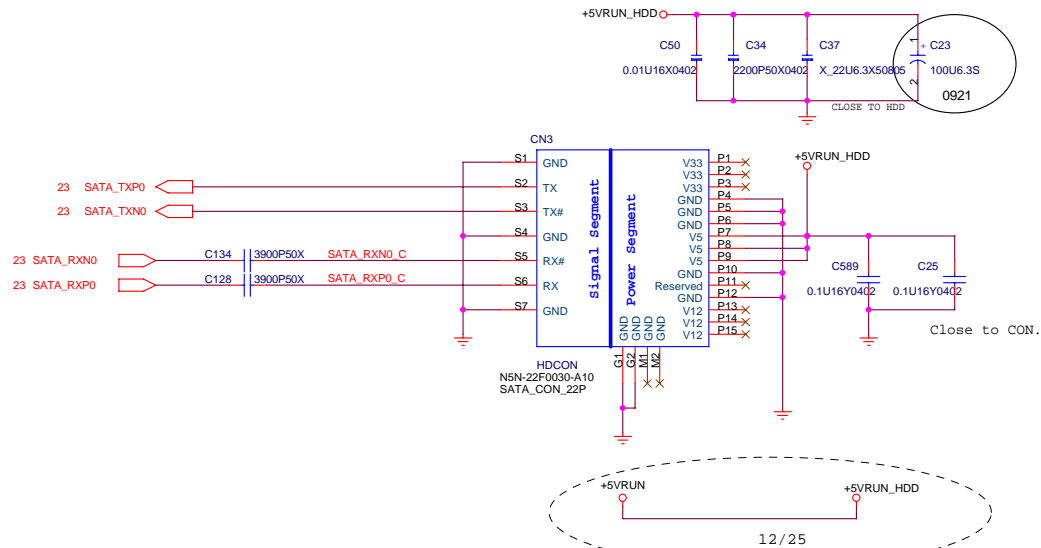


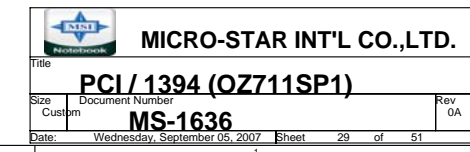




MSI CORPORATION			
Title			
ICH8M-3 (SM BUS/GPIO)			
Size	Document Number	Rev	
Custom	MS-1636	0A	
Date:	Wednesday, September 05, 2007	Sheet	25 of 51







PCMCIA SLOT

pcmcia_68p_1016
TAISOL_146-2221210-01_PCMCIA_SMT
N5D-68M0220-T01

U35B

OZ711SP1

CARBUS/FLASH MEMORY CARD

OZ711SP1

GND	P01	GND	P35	GND
CAD0	P02	CAD0(D3)	P36	CCD1#
CAD1	P03	CAD1(D4)	P37	CAD2
CAD3	P04	CAD3(D5)	P38	CAD4
CAD5	P05	CAD5(D6)	P39	CAD6
CAD7	P06	CAD7(D7)	P40	R2_D14
CC/BE#0	P07	CC/BE0#(CE1#)	P41	CAD8
CAD9	P08	CAD9(A10)	P42	CAD10
CAD11	P09	CAD11(OE#)	P43	CVS1
CAD12	P10	CAD12(A11)	P44	CAD13
CAD14	P11	CAD14(A9)	P45	CAD15
CC/BE#1	P12	CC/BE1#(A8)	P46	CAD16
CPAR	P13	CPAR(A13)	P47	R2_A18
CPERR#	P14	CPERR#(A14)	P48	CBLOCK#
CGNT#	P15	CGNT#(WE#)	P49	CSTOP#
CINT#	P16	CINT#(IRQ#)	P50	CDEVSEL#
CAVCC	P17	VCC	P51	CAVCC
CAVCC	P18	VPP	P52	CAVCC
CCLK	P19	CCLK(A16)	P53	CTRDY#
CIRDY#	P20	CIRDY#(A15)	P54	CFRAME#
CC/BE#2	P21	CC/BE2#(A12)	P55	CAD17
CAD18	P22	CAD18(A7)	P56	CAD19
CAD20	P23	CAD20(A6)	P57	CVS2
CAD21	P24	CAD21(A5)	P58	CRST#
CAD22	P25	CAD22(A4)	P59	CSERR#
CAD23	P26	CAD23(A3)	P60	CREQ#
CAD24	P27	CAD24(A2)	P61	CC/BE#3
CAD25	P28	CAD25(A1)	P62	CAUDIO#
CAD26	P29	CAD26(A0)	P63	CSTSCHNG
CAD27	P30	CAD27(D0)	P64	CAD28
CAD29	P31	CAD29(D1)	P65	CAD30
R2_D2	P32	RFU(R2_D2)	P66	CAD31
CCLKRUN#	P33	CCLKRUN#(IO16#)	P67	CCD2#
GND	P34	GND	P68	GND

CAD31	E5	CAD31	E5	CAD31
CAD30	F6	CAD30	F6	CAD30
CAD29	E6	CAD29	E6	CAD29
CAD28	D6	CAD28	D6	CAD28
CAD27	F7	CAD27	F7	CAD27
CAD26	D9	CAD26	D9	CAD26
CAD25	G10	CAD25	G10	CAD25
CAD24	F10	CAD24	F10	CAD24
CAD23	D11	CAD23	D11	CAD23
CAD22	G11	CAD22	G11	CAD22
CAD21	F12	CAD21	F12	CAD21
CAD20	D12	CAD20	D12	CAD20
CAD19	F13	CAD19	F13	CAD19
CAD18	D13	CAD18	D13	CAD18
CAD17	E13	CAD17	E13	CAD17
CAD16	H15	CAD16	H15	CAD16
CAD15	J13	CAD15	J13	CAD15
CAD14	H16	CAD14	H16	CAD14
CAD13	J16	CAD13	J16	CAD13
CAD12	J14	CAD12	J14	CAD12
CAD11	K13	CAD11	K13	CAD11
CAD10	K14	CAD10	K14	CAD10
CAD9	K15	CAD9	K15	CAD9
CAD8	L15	CAD8	L15	CAD8
CAD7	L13	CAD7	L13	CAD7
CAD6	M14	CAD6	M14	CAD6
CAD5	M15	CAD5	M15	CAD5
CAD4	N16	CAD4	N16	CAD4
CAD3	M13	CAD3	M13	CAD3
CAD2	N13	CAD2	N13	CAD2
CAD1	N15	CAD1	N15	CAD1
CAD0	P16	CAD0	P16	CAD0

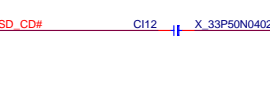
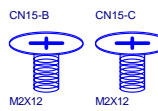
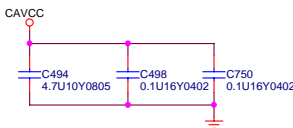
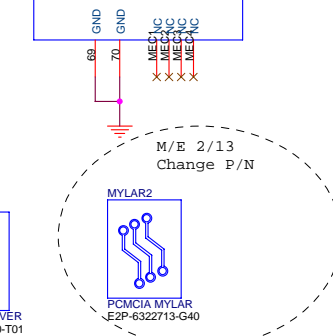
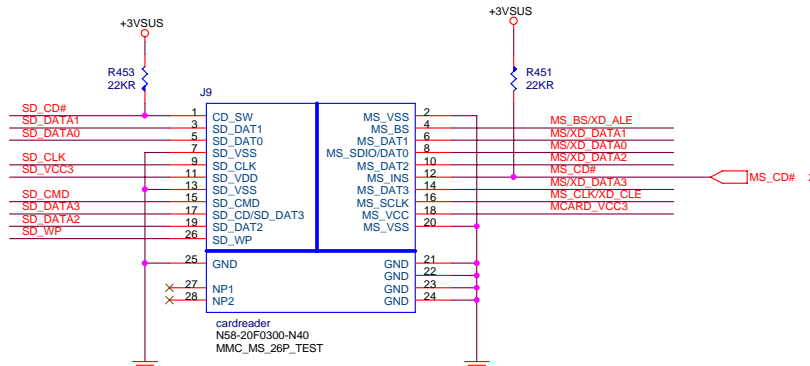
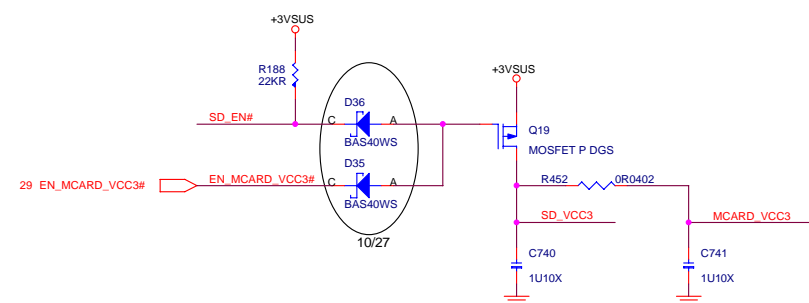
CC/BE#3	E10	CC/BE3#
CC/BE#2	D14	CC/BE2#
CC/BE#1	H14	CC/BE1#
CC/BE#0	L16	CC/BE0#

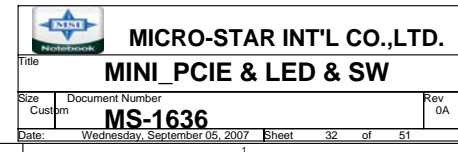
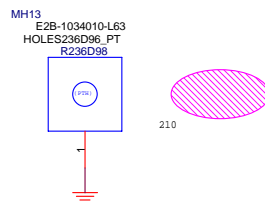
CAVCC D10 SKT_VCC

XD_CD#	U5	SD_CD#
XD_RE#/ODR1_3V#	U11	
XD_WE#	U7	
XD_WPO	U8	
XD_WPI	N12	MS_BS/XD_ALE
XD_ALE/MS_BS	T14	MS_CLK/XD_CLE
XD_CLE/MS_CLK/VPPD1	R15	
XD_R/#	C5	MS/XD_DATA0
XD/MS_D0	T12	MS/XD_DATA1
XD/MS_D1	R11	MS/XD_DATA2
XD/MS_D2	N14	MS/XD_DATA3
XD/MS_D3	K16	
XD_D4	C7	
XD_D5	C9	
XD_D6	C13	
XD_D7	C11	
XD_VCC		+3VSUS

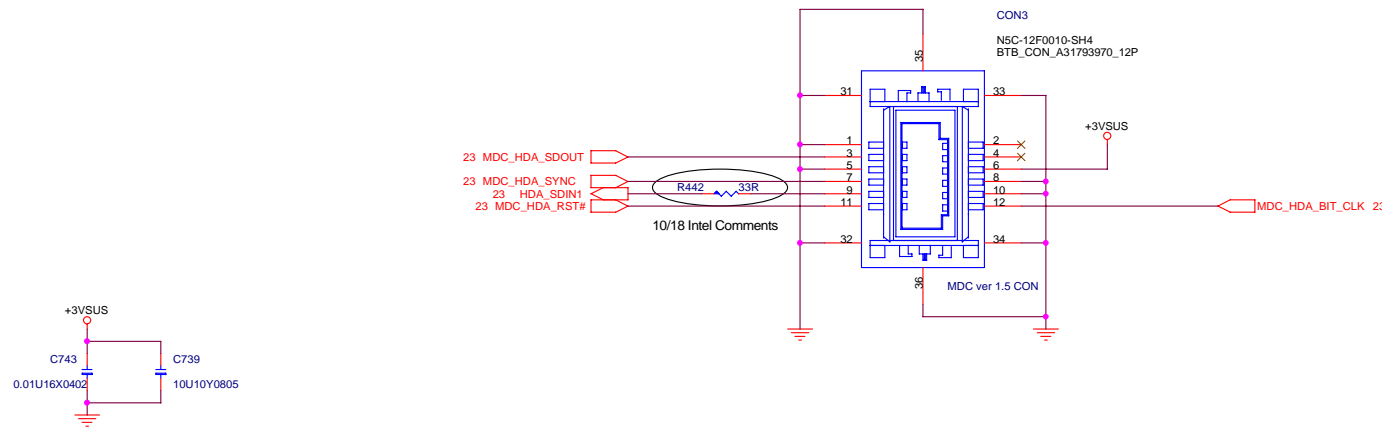
SD_D7	C16	SD_DATA3
SD_D6	U6	
SD_D5	U4	
SD_D4	U12	SD_DATA2
SD_D3	U13	SD_DATA1
SD_D2	U14	SD_DATA0
SD_D1	U15	SD_CMD
SD_D0	U10	SD_CLK
SD_CLK	U8	

SD_WP	C12	SD_WP
ORD2_3V#	C10	SD_EN#
NC7	C8	
ODR2_ACTIV	C14	

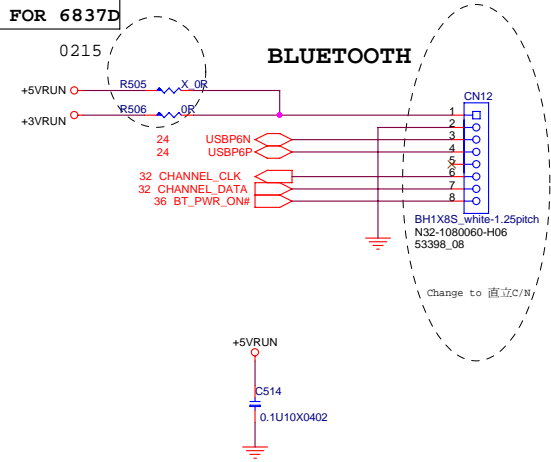


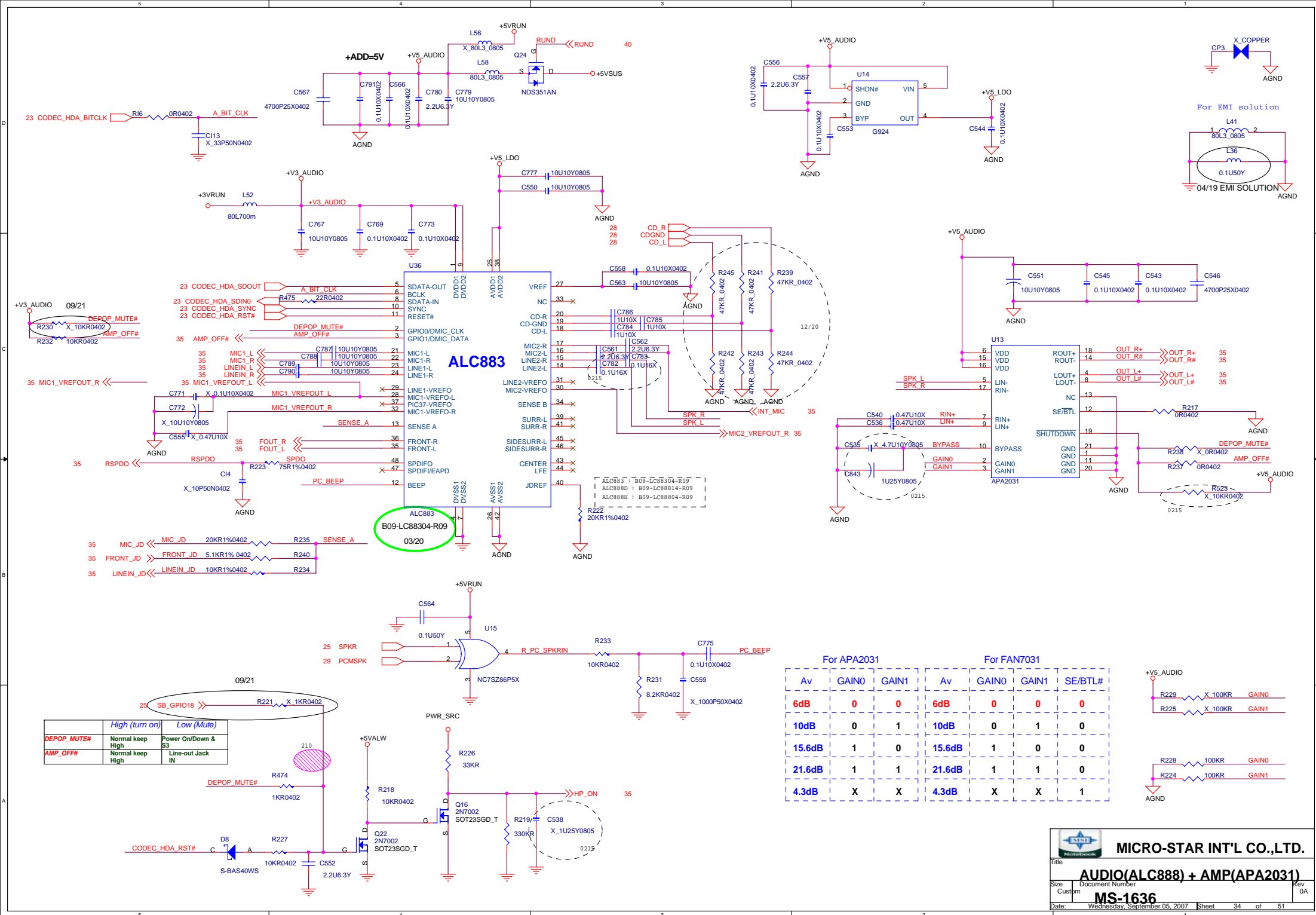


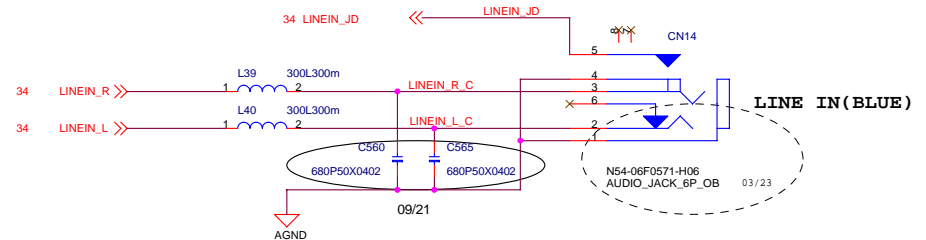
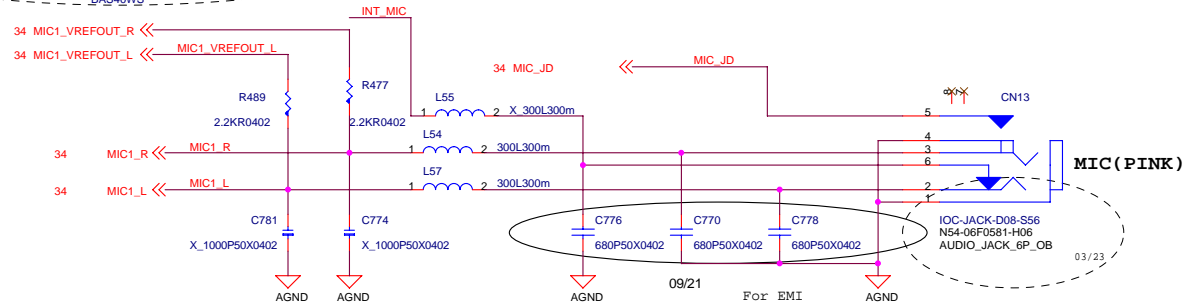
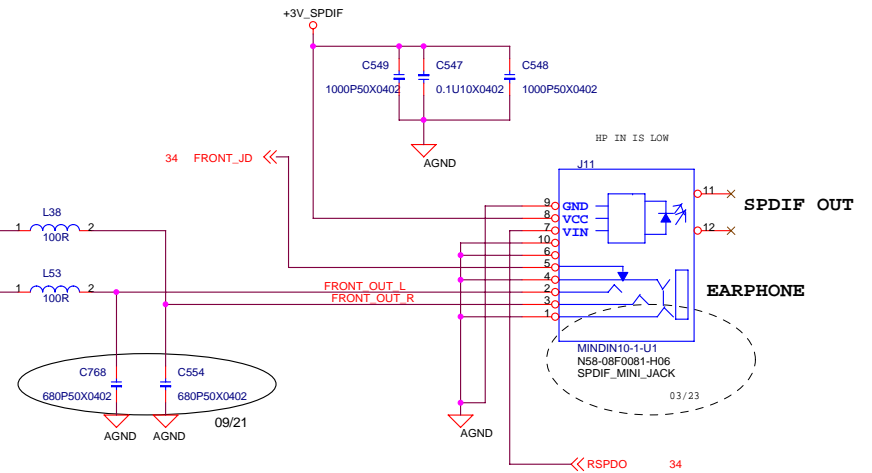
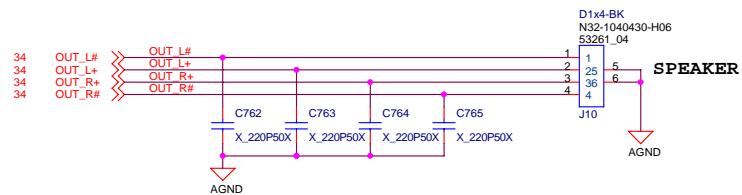
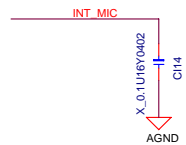
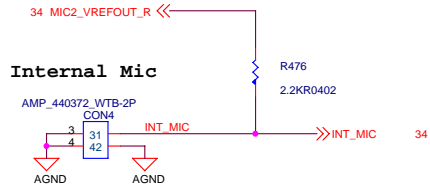
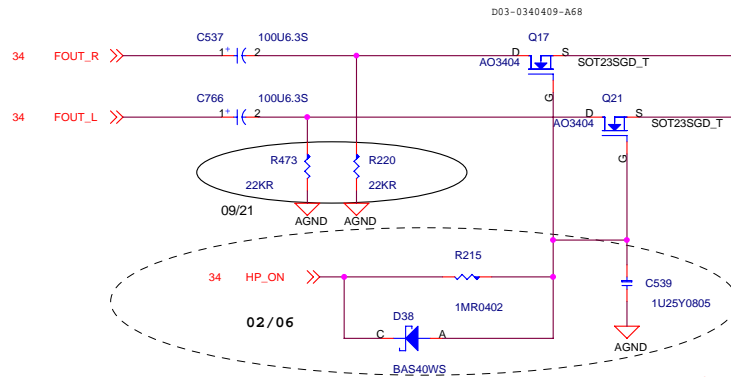
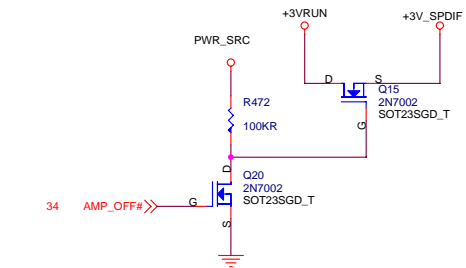
MDC Connector

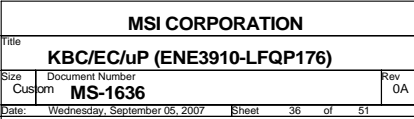


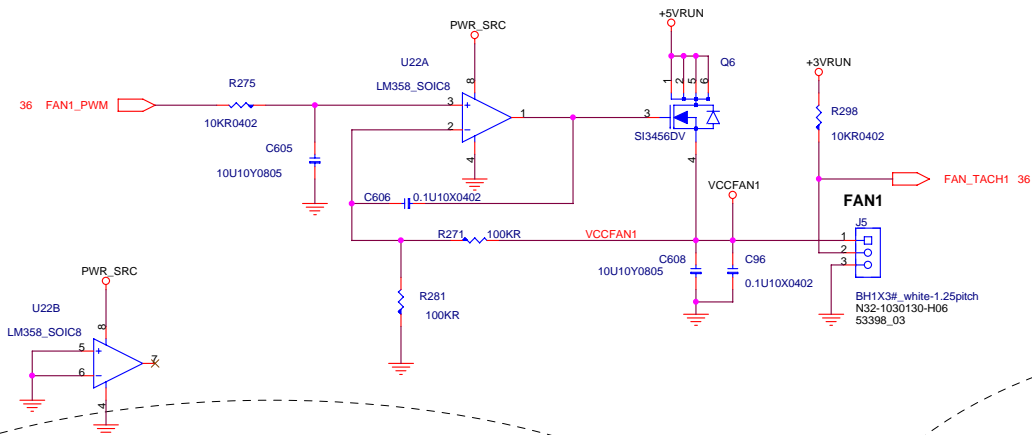
+3VRUN FOR QCOM
+5VRUN FOR 6837D



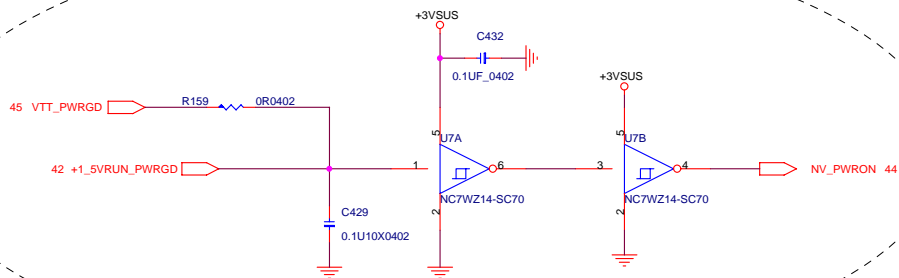




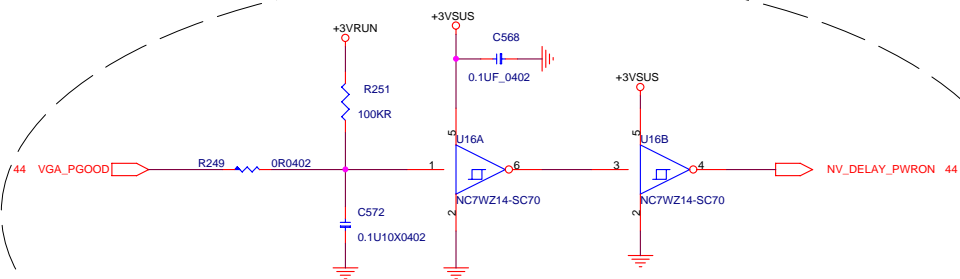
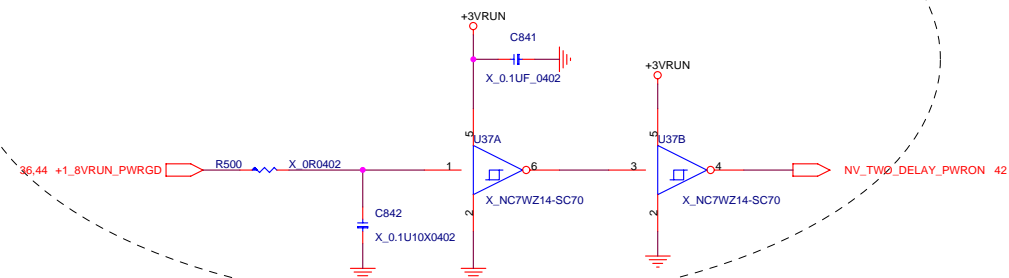




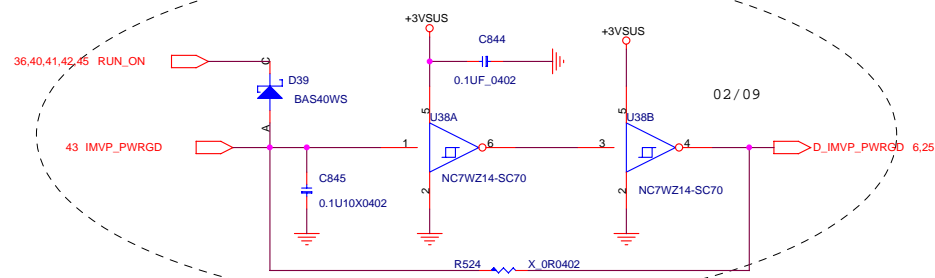
OPEE +G73M_CORE POWER

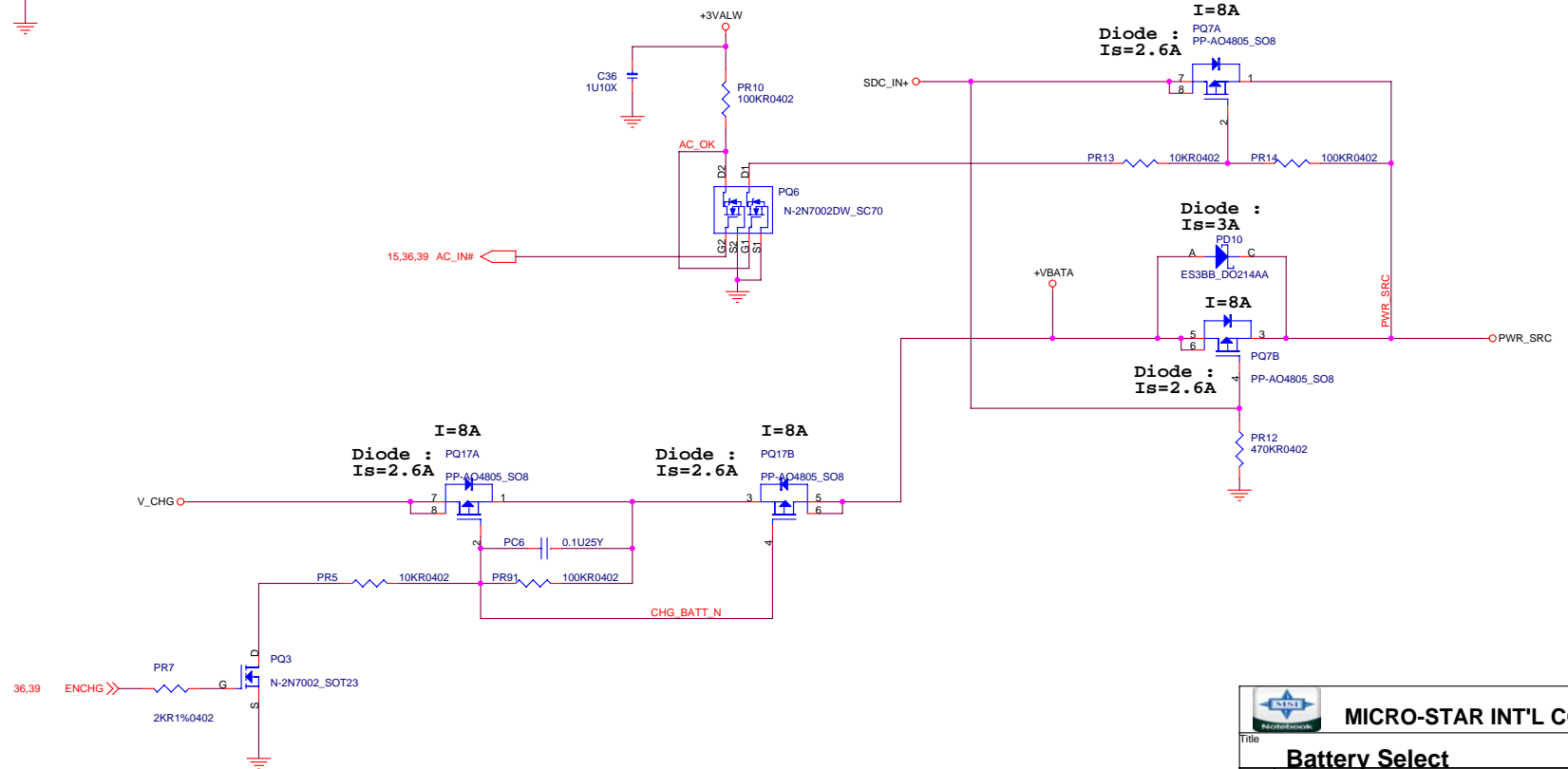
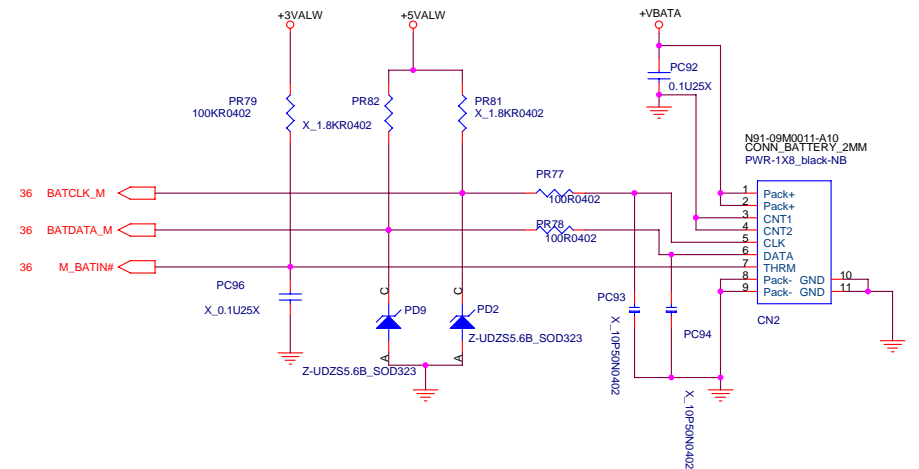
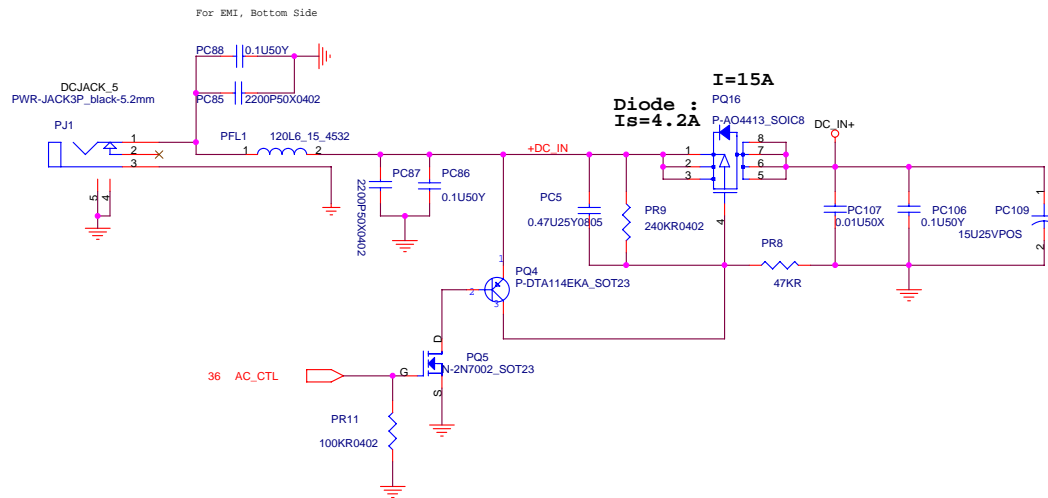


OPEE +1_25VRUN & +1_2VRUN_GFX POWER



OPEE +1_8VRUN POWER





Adapter= 90 W $2.048/7.15*(53.6+7.15)=17.4V$
 Adapter input voltage set 17.4 Voltage

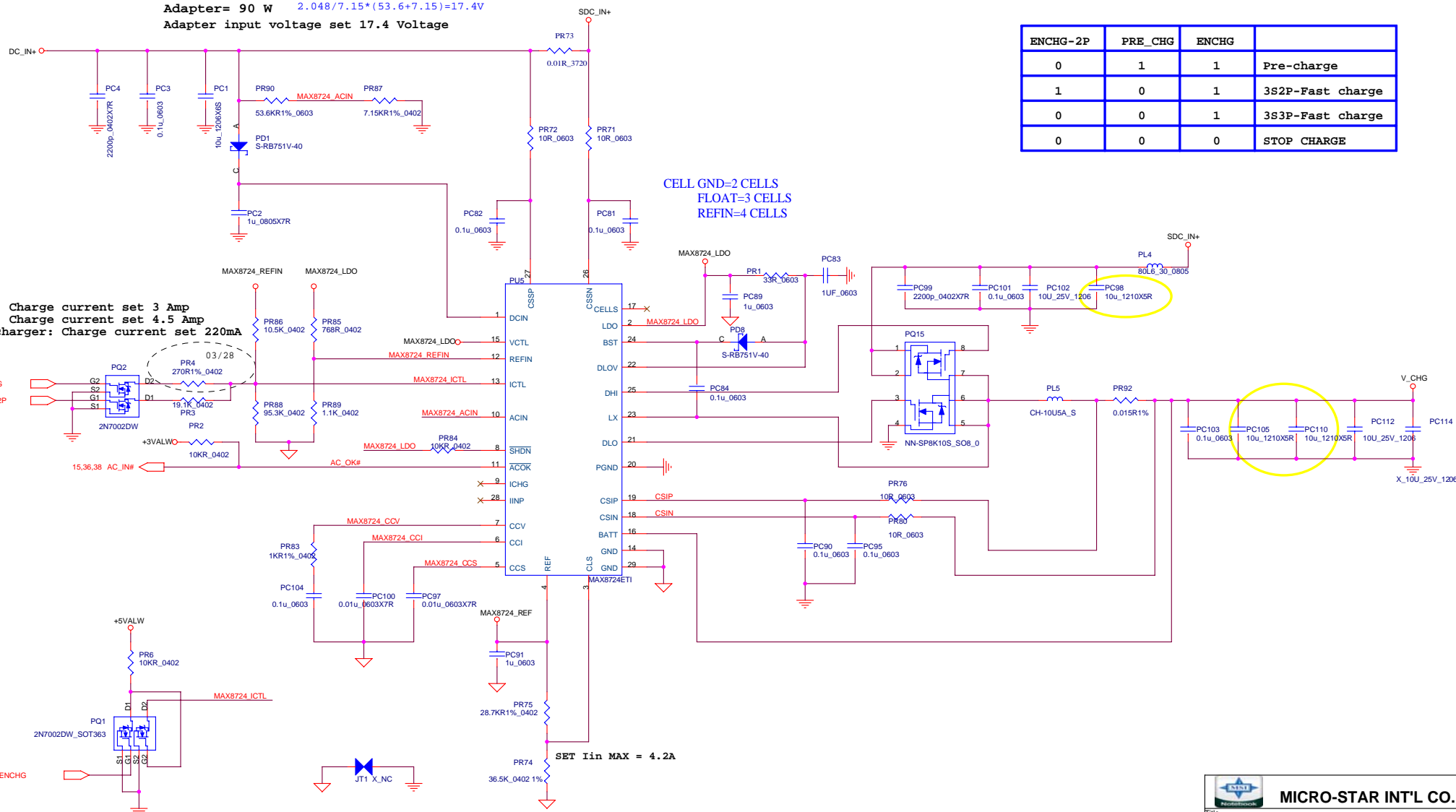
ENCHG-2P	PRE_CHG	ENCHG	
0	1	1	Pre-charge
1	0	1	3S2P-Fast charge
0	0	1	3S3P-Fast charge
0	0	0	STOP CHARGE

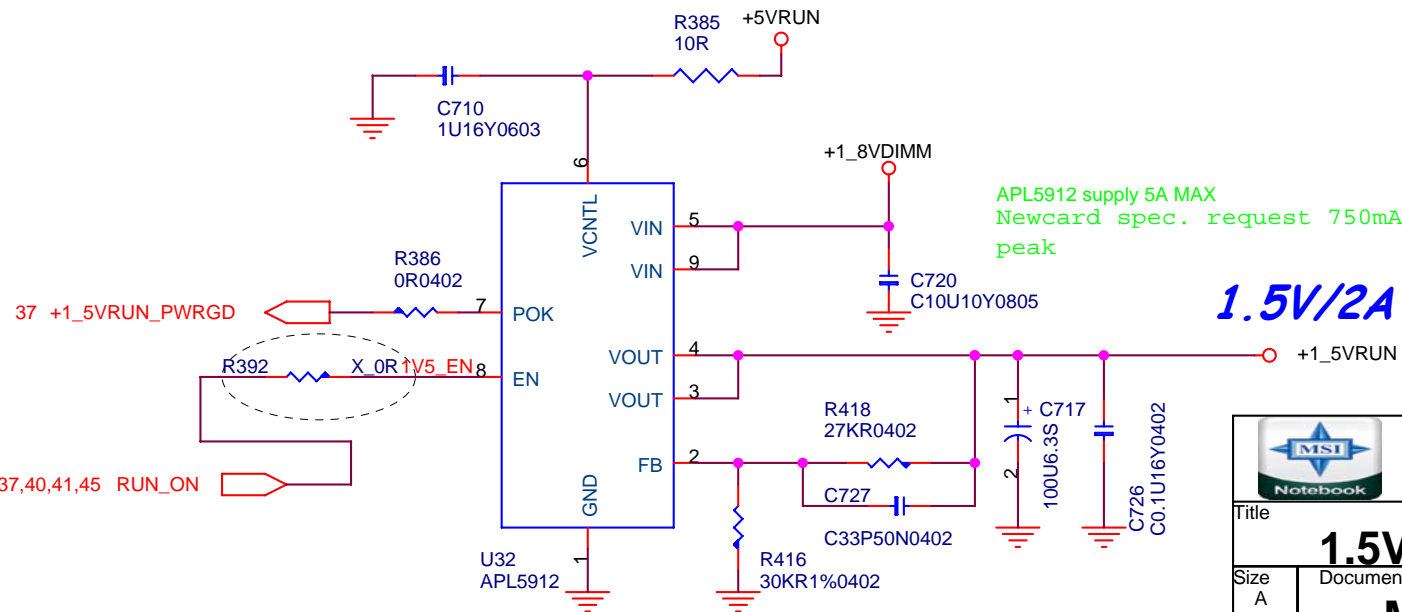
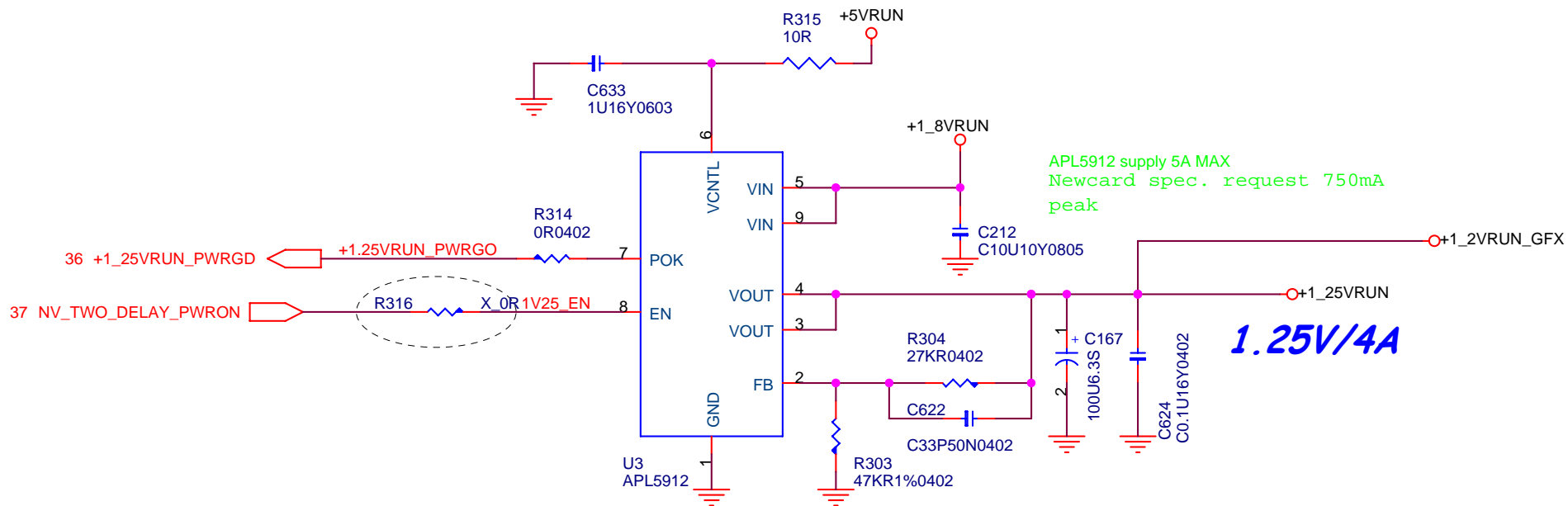
CELL GND=2 CELLS
 FLOAT=3 CELLS
 REFIN=4 CELLS

3S2P: Charge current set 3 Amp
 3S3P: Charge current set 4.5 Amp
 Pre-charger: Charge current set 220mA

36 PRE_CHG
 36 ENCHG_2P

36.38 ENCHG





MICRO-STAR INT'L CO.,LTD.

Title

1.5V,1.25V power

Size
A

Document Number

MS-1636

Rev
0.A

Date:

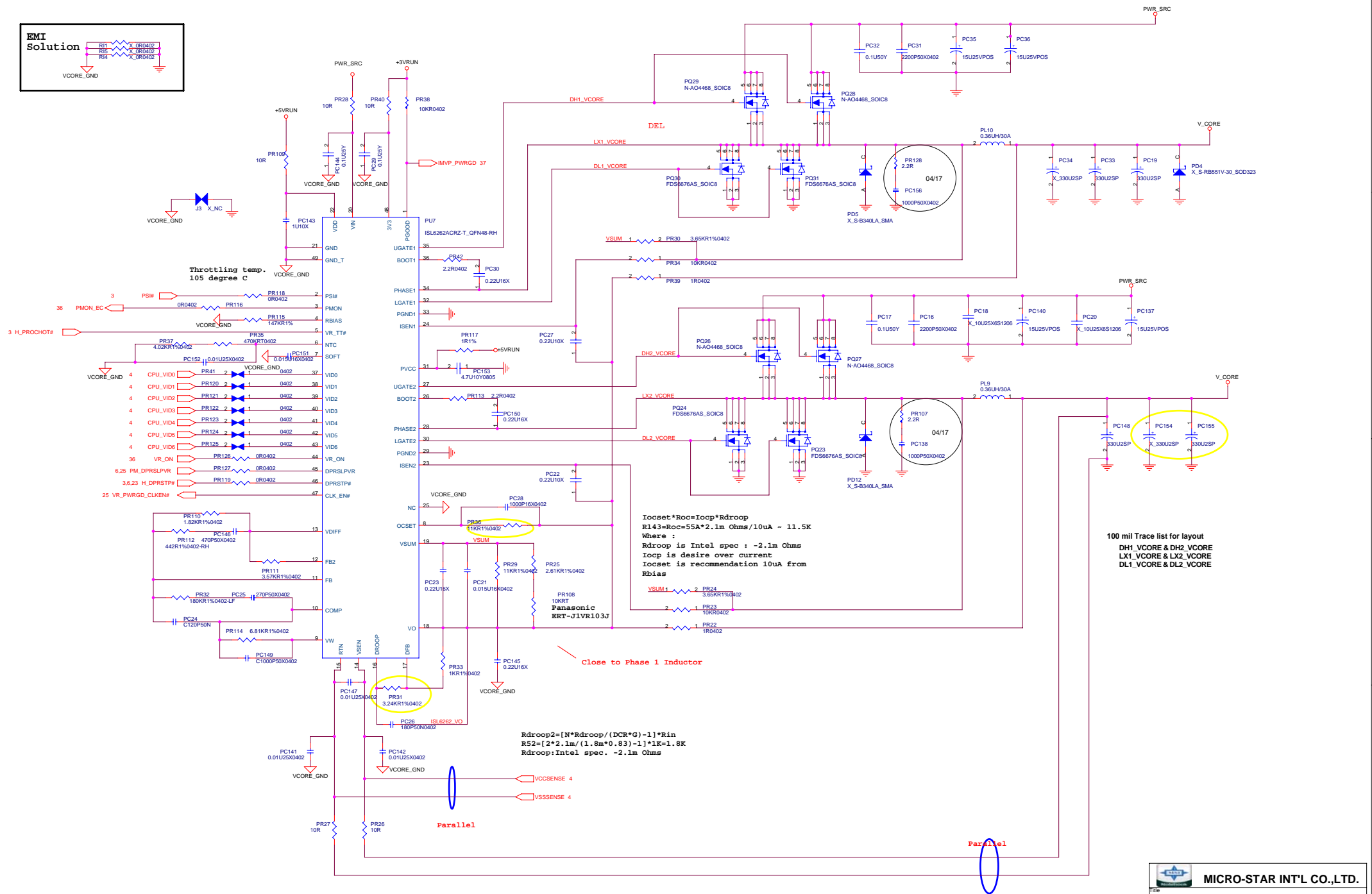
Wednesday, September 05, 2007

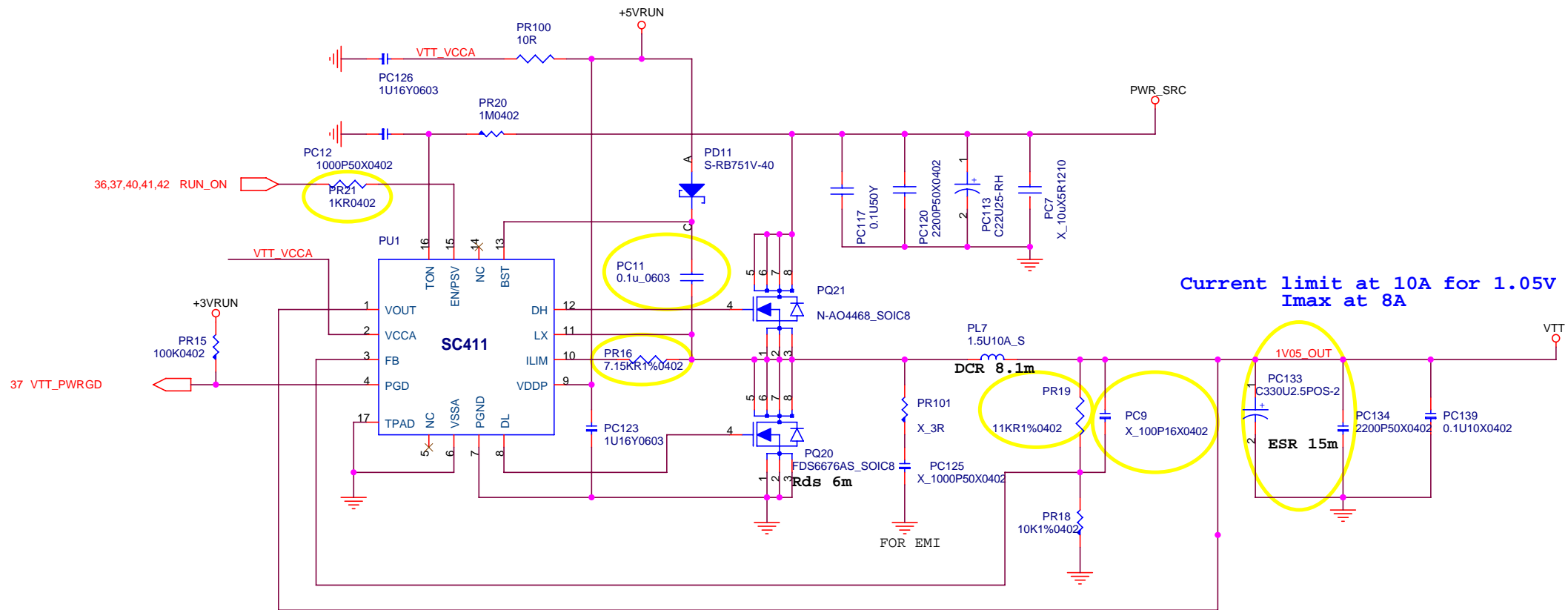
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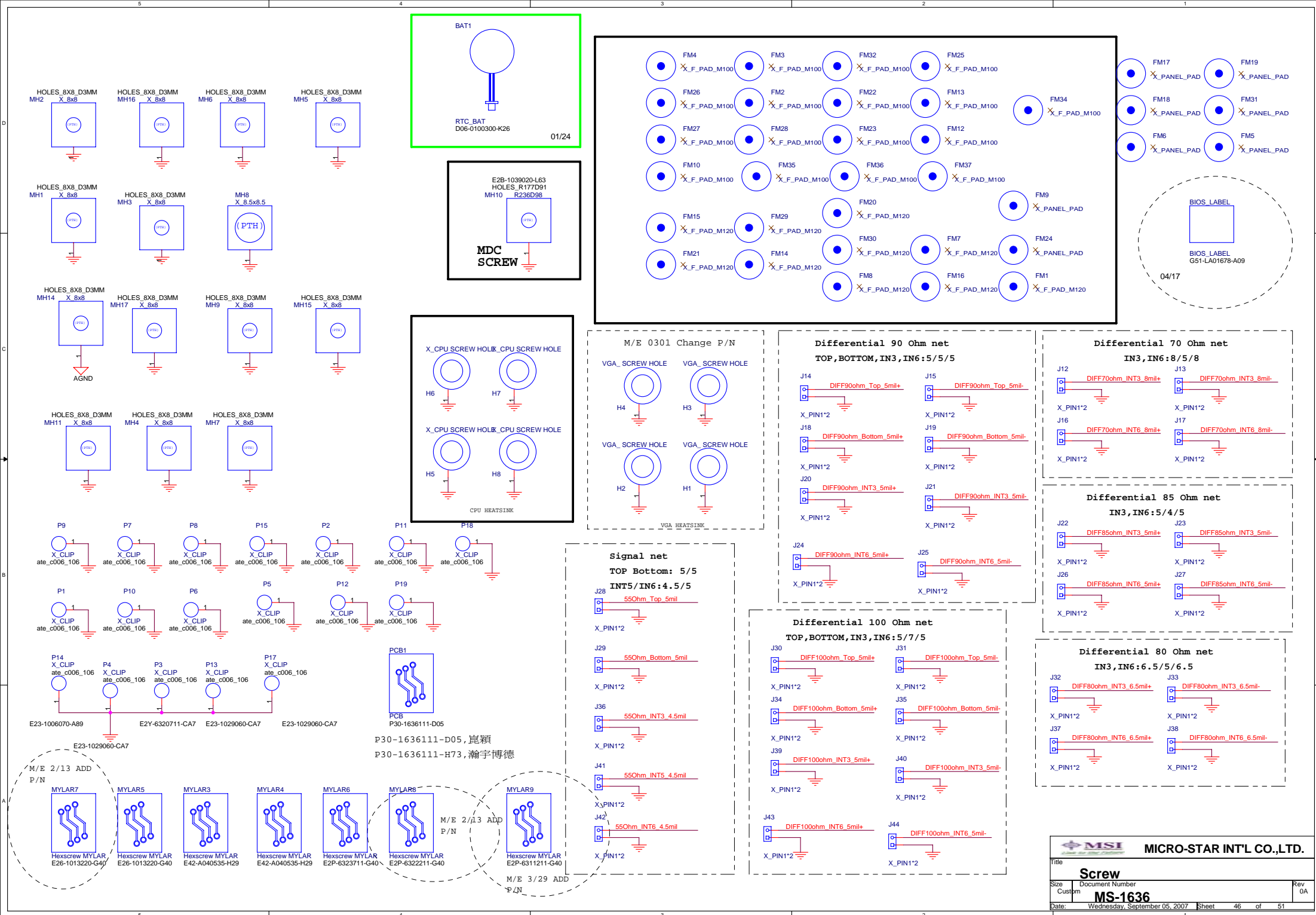
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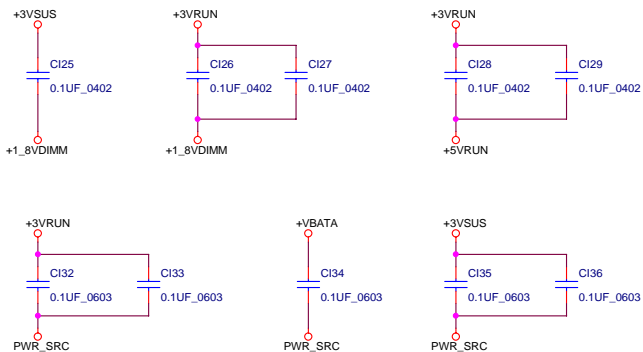
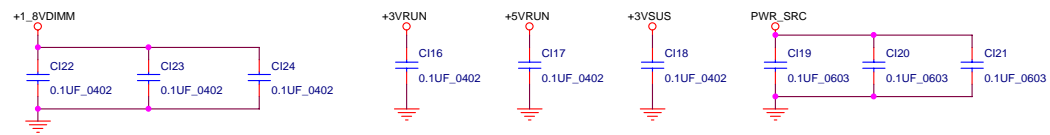
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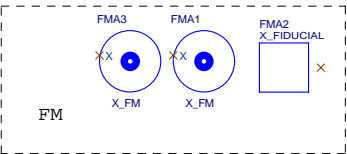
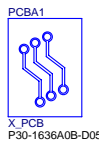
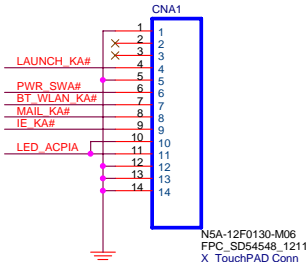
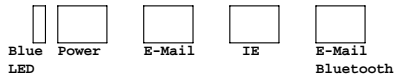
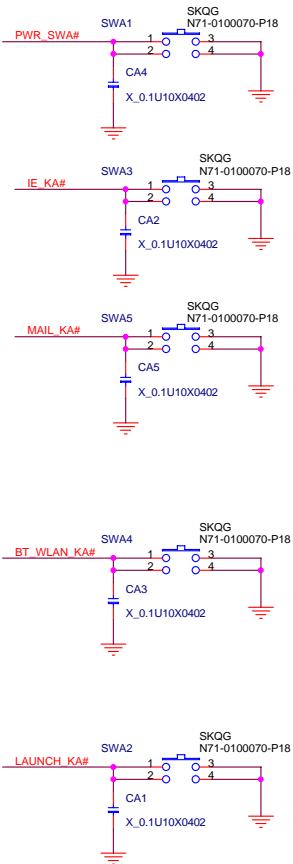
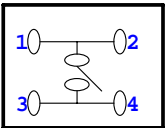
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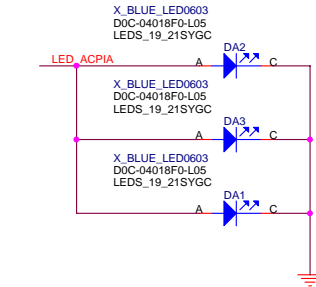
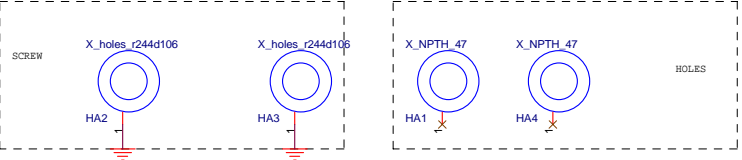




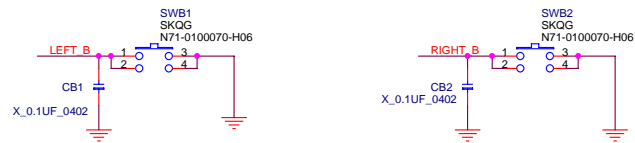




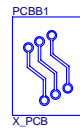
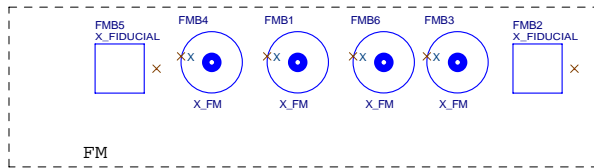
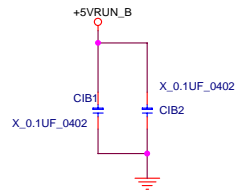
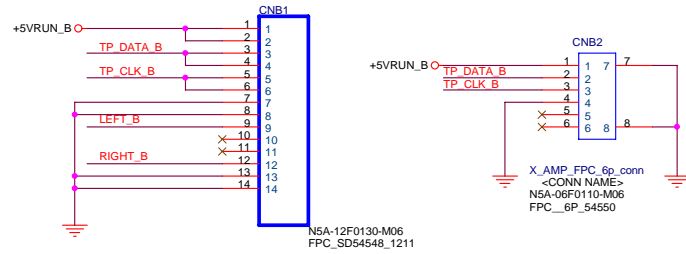
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P30-1636A0B-T53, 健鼎
P30-1636A0B-H73, 瀚宇博德



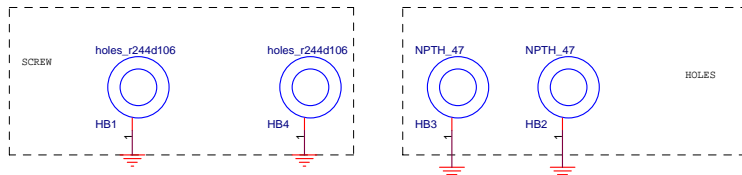
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Size	Document Number	Rev
Custom	MS-1636A	0A
Date:	Wednesday, September 05, 2007	Sheet 48 of 51



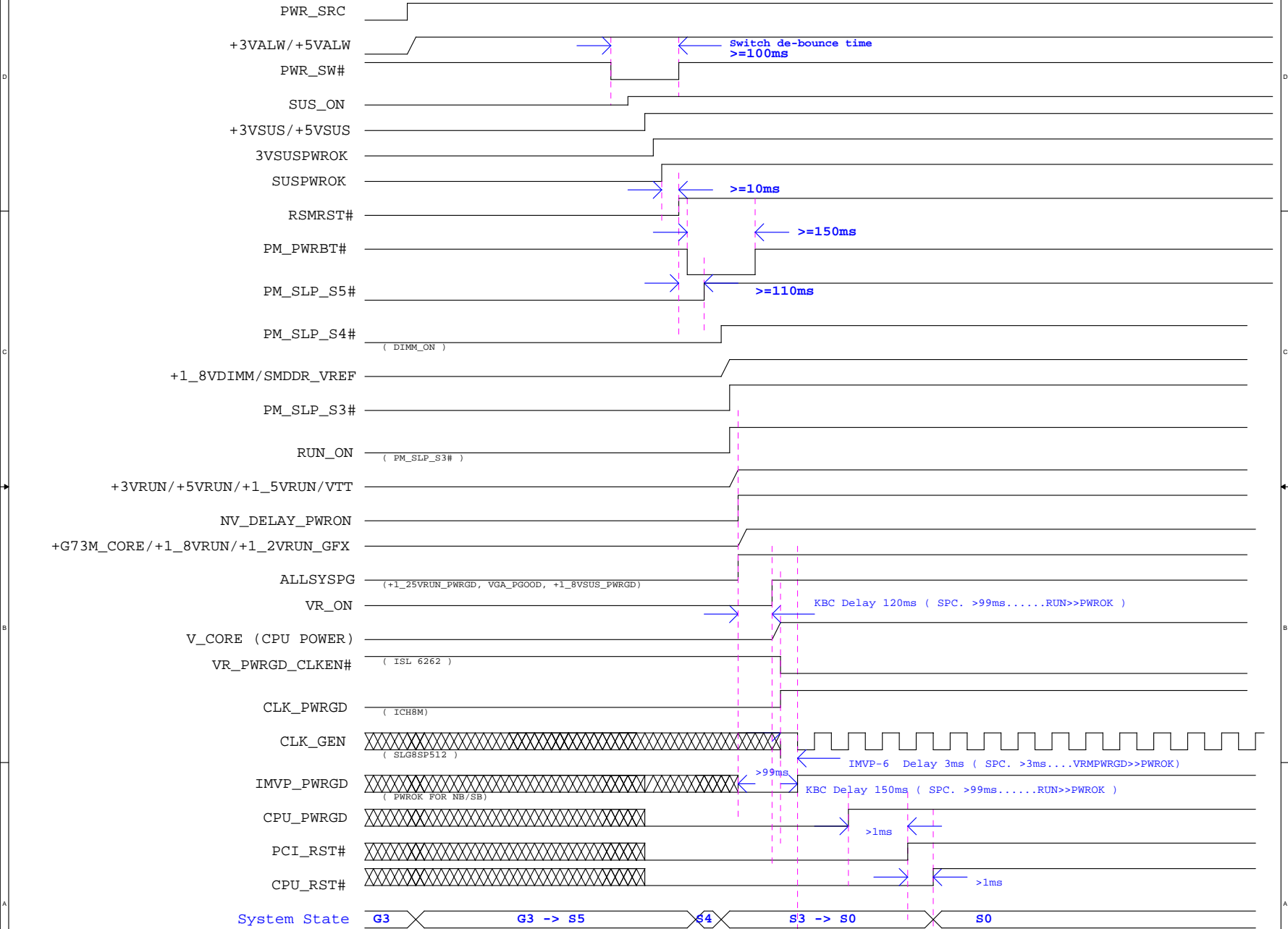
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P30-1636B0B-T53, 健鼎
P30-1636B0B-H73, 瀚宇博德



SANTA ROSA System Power on Sequence for MS-1636



Ver.	date	change note
1.0	02/14/2007 by Apin	ADD Page35 D38 P/N D01-BAS400-W01 Page37 C844,C845,D39,U38 Page24 R522 Page36 R455 Page46 ME ADD Mylar MYLAR7 & MYLAR8
		DEL Page43 OR_0402 PR41,PR120,PR121,PR122, PR123,PR124,PR125 DEL Page23 OR_0402 R103,R111,R114,R128 DEL Page25 OR_0402 R155,R156,R348 DEL Page21 2.2K_0402 R2 DEL Page32 OR R381,R389 DEL Page6 OR_0402 R97,R337
		Change P/N 1uF/Y5V to 1uF/X7R C105,C20,C36,C446,C501,C578,C638,C645 C729,C740,C741,C784,C785,C786 Change P/N 2.2UF/6.3V to 0.1UF/16V Page 34 C782,C783 Change P/N 10K_0402 to 1M_0402 Page35 R215 Change P/N 22UF/10_1206 TO 100UF/6.3V Page27 C690 Change P/N PLCC32_SOCKET FLASH ROM SOCKE Change to Flash ROM Change P/N M/E Mylar MYLAR2 E2P-6322712-G40 Change to E2P-6322713-G40 Change P/N M/E Scerw E2B-1636010-L63 change to E2B-1641010-L63 Page 46 H1,H2,H3,H4
	02/27/2007 by KILL	Change 15p 5% to 18p 5% page 23 delate c538 page 34 change R505 to R506 page 33 ADD C846 and C847 page 23 Change M/E P/N Scerw H1,H2,H3,H4 page 46 E2B-1641010-L63 change to E2B-1037010-L63 5020*4
	03/15/2007 by KILL	Change U25 PN:B03-ONB8M15-N08 to B03-00G8675-N08
	03/20/2007 by KILL	Change U36 to ALC883 page 34 Change P16 P/N to N59-15F0451-A10 page 21 Change CN14 P/N to N56-07F0091-A10 page 20
	03/23/2007 by KILL	Change J11;CN13;CN14 P/N TO N58-09F0051-F02;N54-06F0461-A10;N54-06F0451-A10 page 35 FOR LG
	03/28/2007 by Apin	Power Change Page39 PR4 499_0402 to 270_1%_0402 Delete Page6 ,Page9 R332 ,R333,R334 ADD Page 6 Page9 R518 R519 & R520
	03/29/2007 by Apin	M/E ADD Mylar Page51 Mylar9