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MS-7377(BELEM) uE

CPU: LGA 775 Yorkfiled Qual core --95W
Wolfdale 1333 , 1066 , 800 -- 45W
Core 2 duo 1333 E6*50 -- 65W
Core 2 duo 1066 E6*00 -- 65W
Core 2 duo 800 E4XXX -- 65W
Daul Core E2XX --65W
Celeron 4XX -- 35W

System Chipset:

Intel Bearlake - Q35 (North Bridge)
Intel ICH9 DO(South Bridge)

On Board Device:

CLOCK Gen -- ICS9LP505-2HLFT 54PIN or Silego 84516BT
LPC Super I/O -- ITE8718
LAN-- Intel 82566MM
HD Audio Codec -- ALC888

Main Memory:

Dual-channel DDR-II * 4

Expansion Slots:

PCI EXPRESS X16 SLOT *1
PCI EXPRESS X1 SLOT * 2
PCI SLOT * 1

PWM: VRD11 Intersil 6312 3Phase

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Title: Cover Sheet
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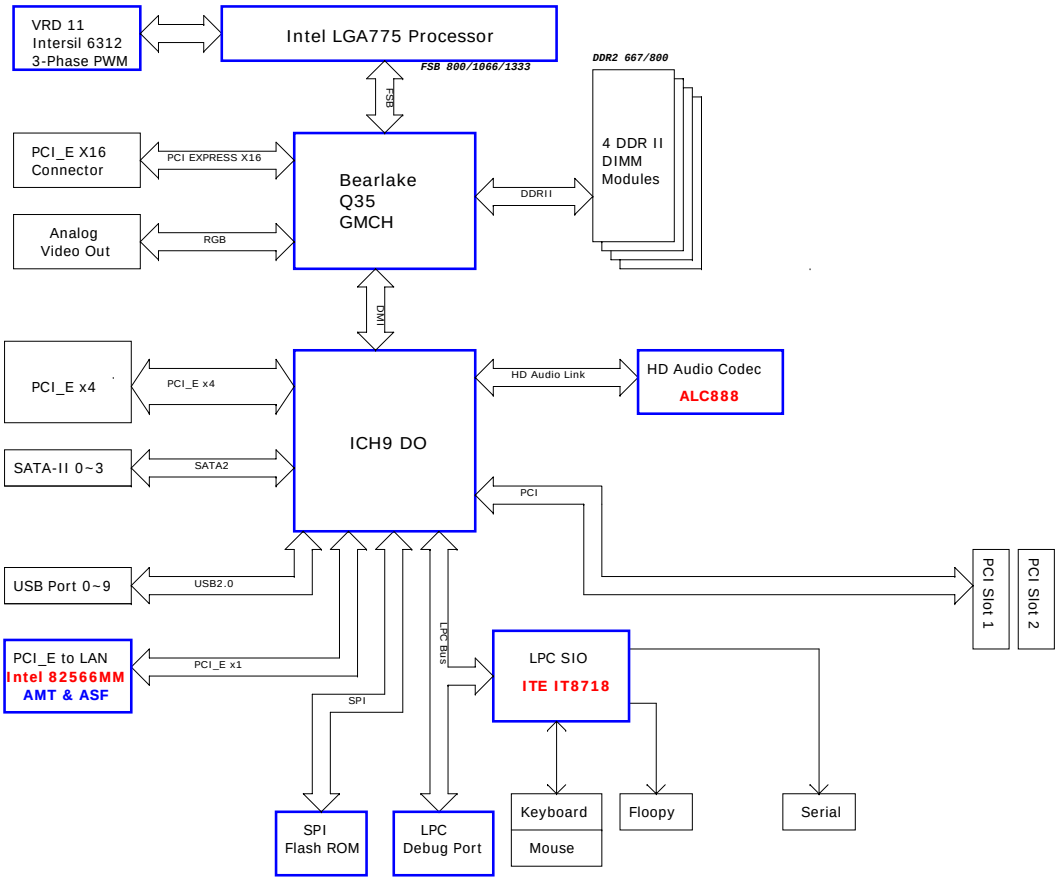
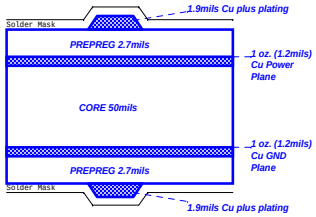
Block Diagram



Board Stack-up

(1080 Prepreg Considerations)



Single End 50ohm Top/Bottom : 4mils
USB2.0 - 90ohm : 15/7.5/4.5/7.5/15
SATA - 95ohm : 15/8/4/8/15
LAN - 100ohm : 15/10/4/10/15
PCIE - 95ohm : 15/8/4/8/15

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Title: BLOCK DIAGRAM		
Size: Custom	Document Number: MS-7377 (BELEM) uBTX	Rev: 10
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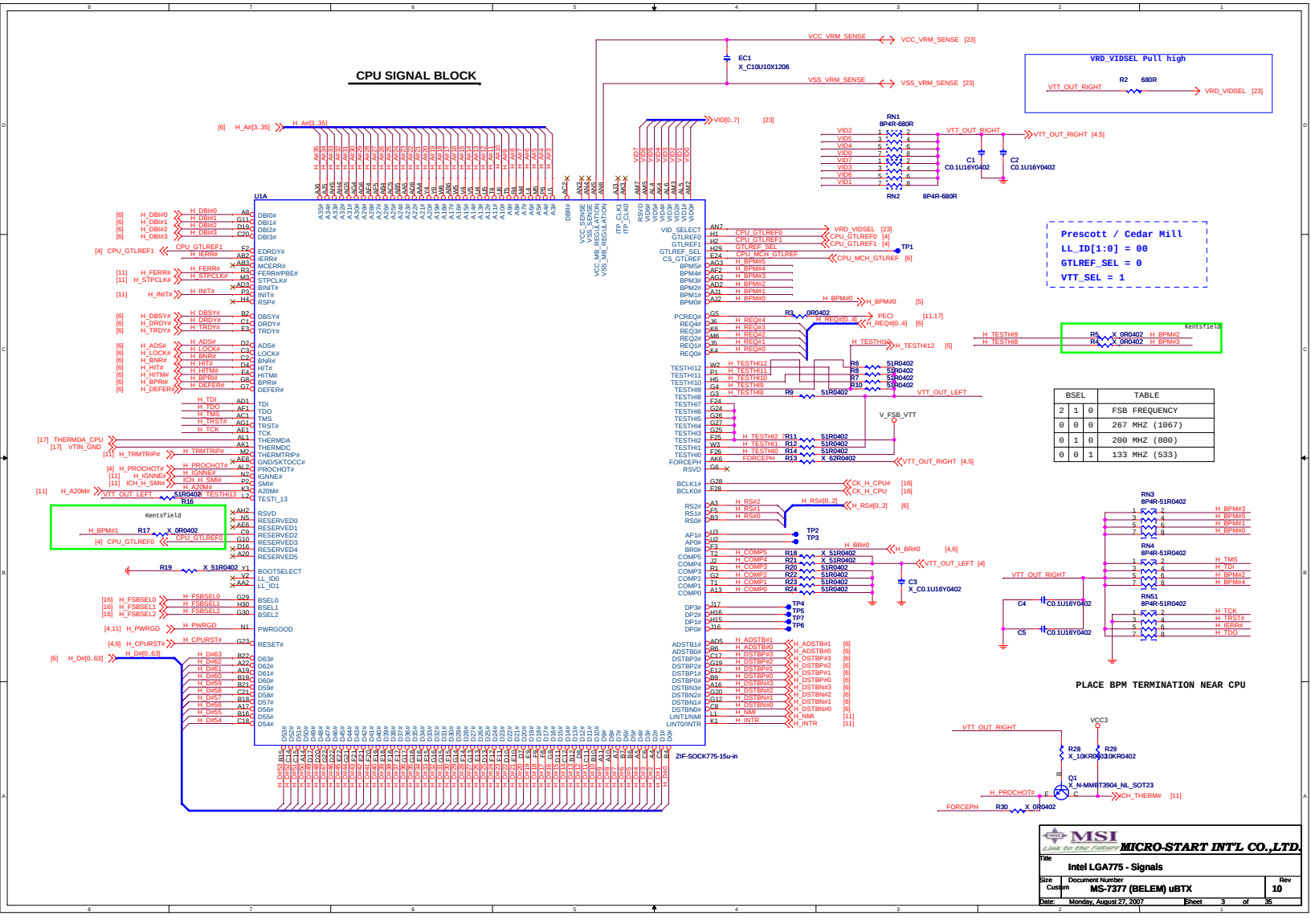
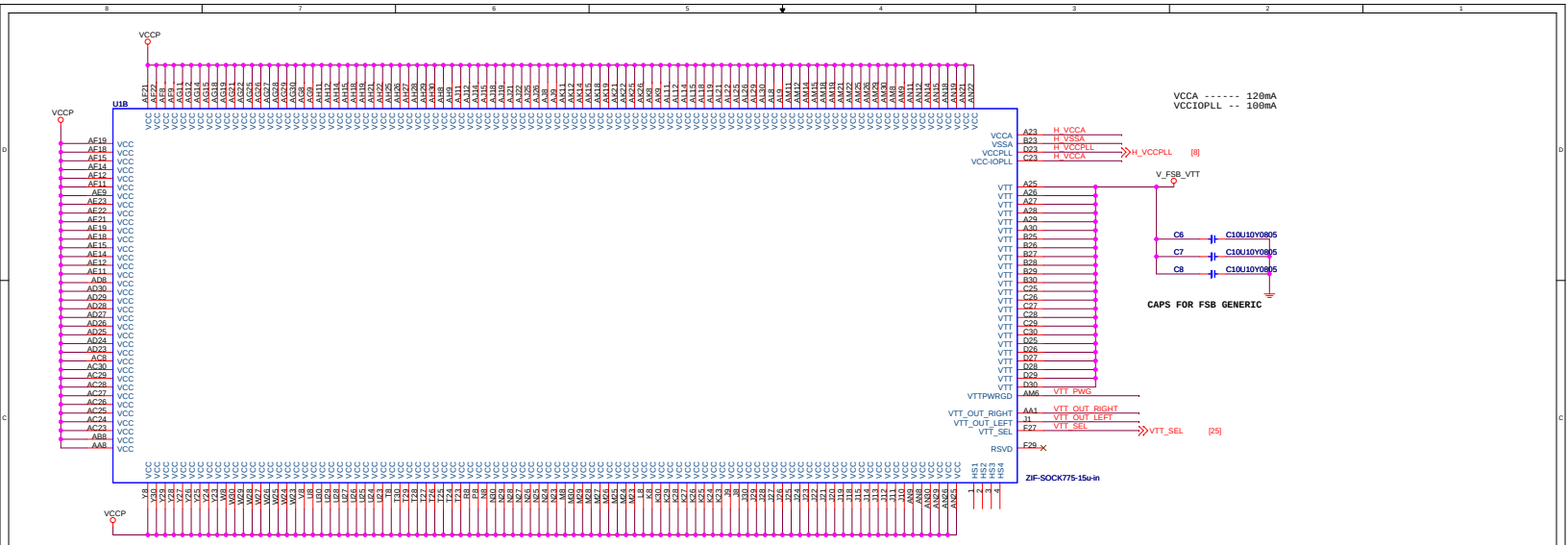
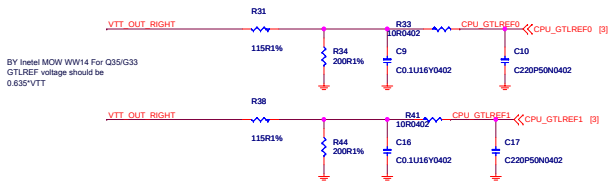
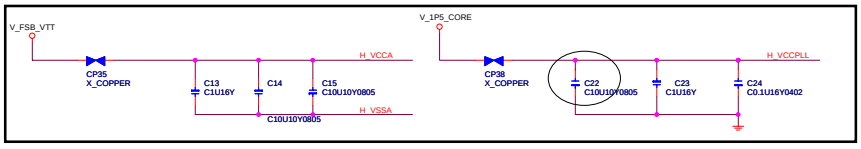






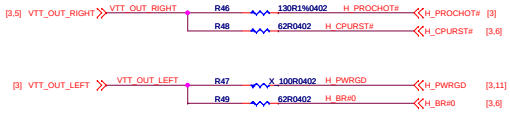
Reserved for Kentsfield (Q-core)

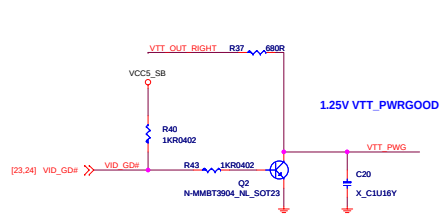
PLACE COMPONENTS AS CLOSE AS POSSIBLE TO PROCESSOR SOCKET
TRACE WIDTH TO CAPS MUST BE SMALLER THAN 12MILS



The VCCA, VSSA, and VCCIOPLL processor lands can be no connects
For board supporting only Intel Core2 Duo and Wolfale Family process

PLACE AT CPU END OF ROUTE





VTT_PWG SPEC :
High > 0.9V
Low < 0.3V
Trise < 150ns

MSI MICRO-START INT'L CO.,LTD.
Title: Intel LGA775 CPU - Power
Size: Custom | Document Number: MS-7377 (BELEM) uBTX | Rev: 10
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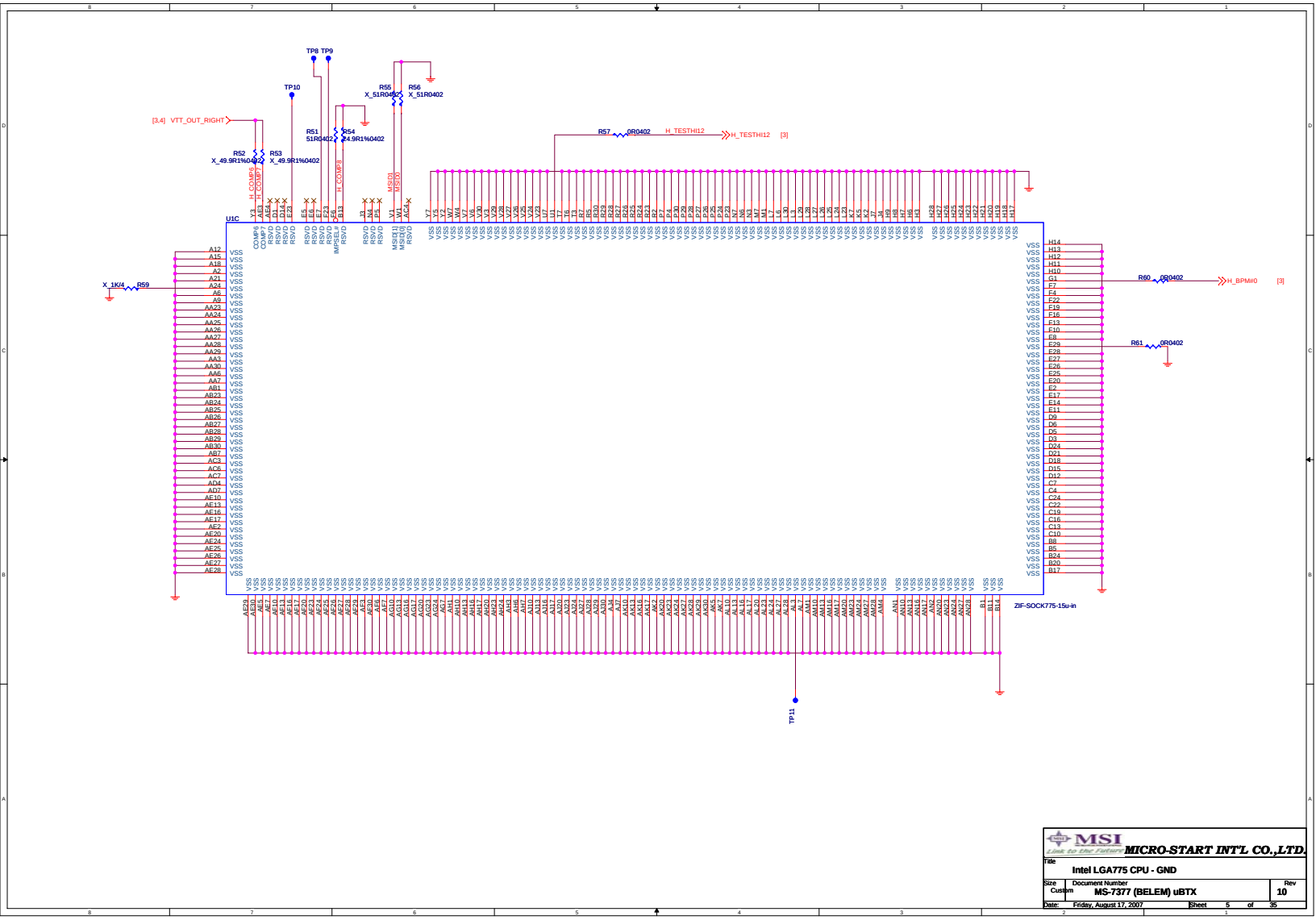
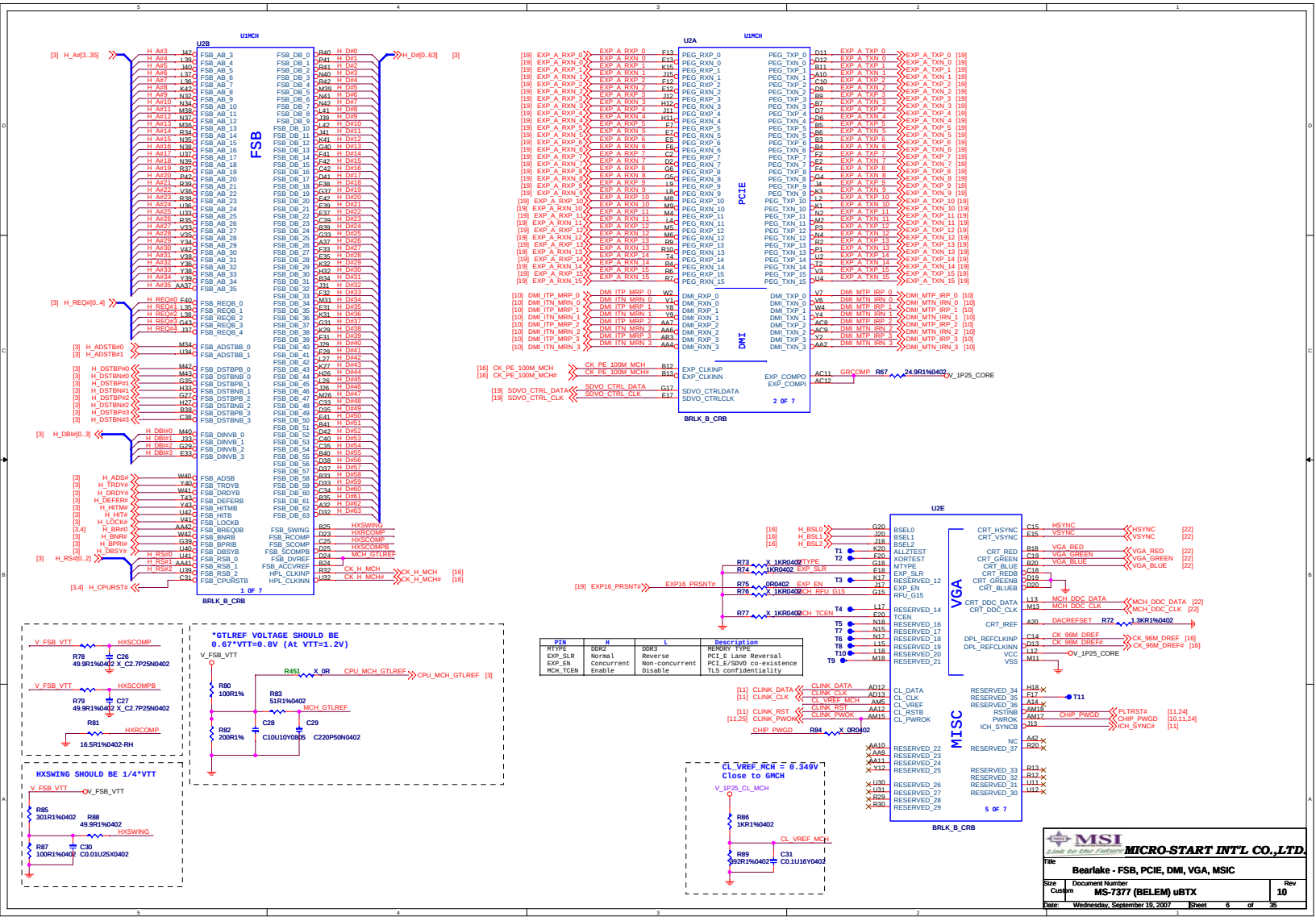


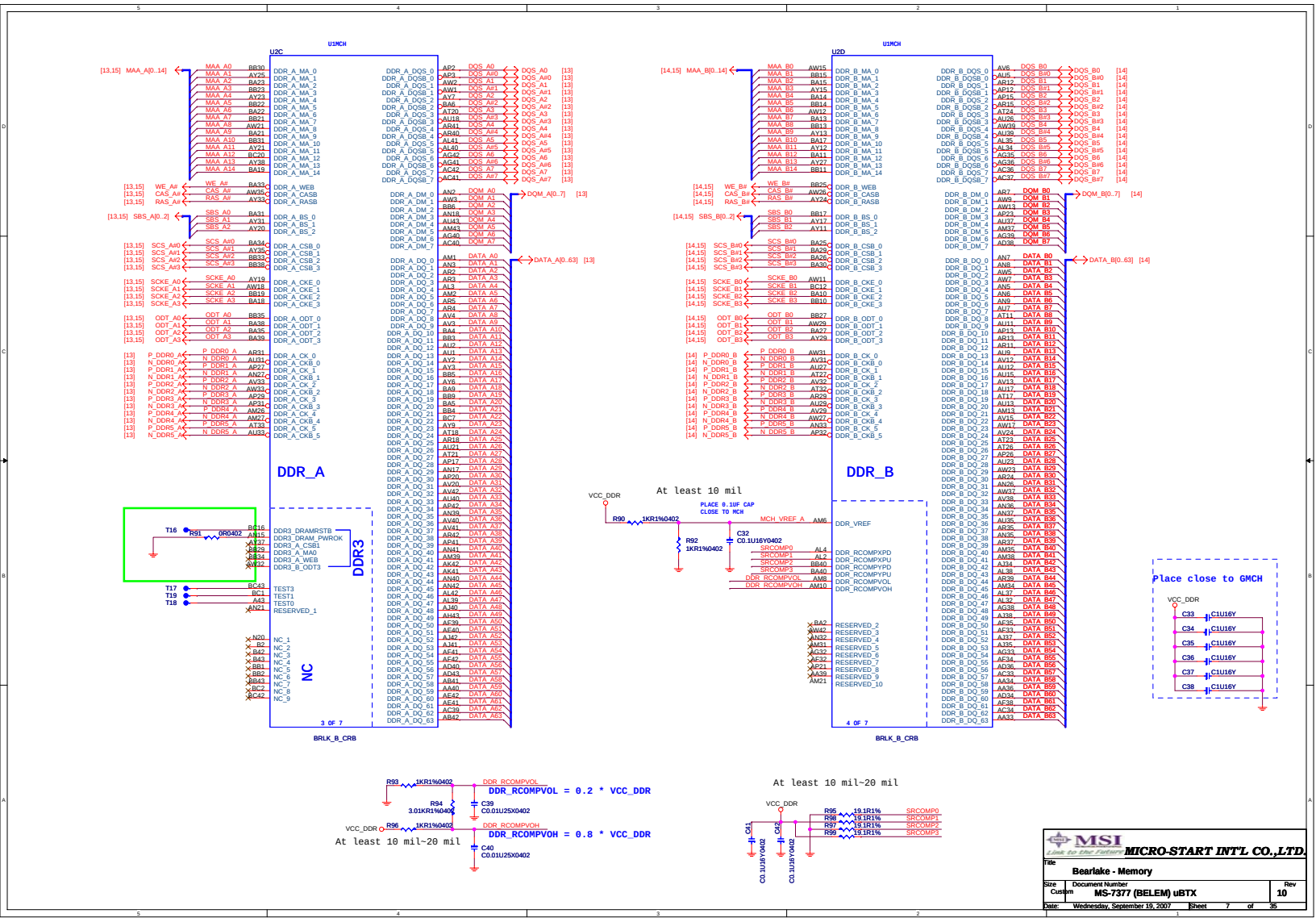
MSI MICRO-START INT'L CO.,LTD.

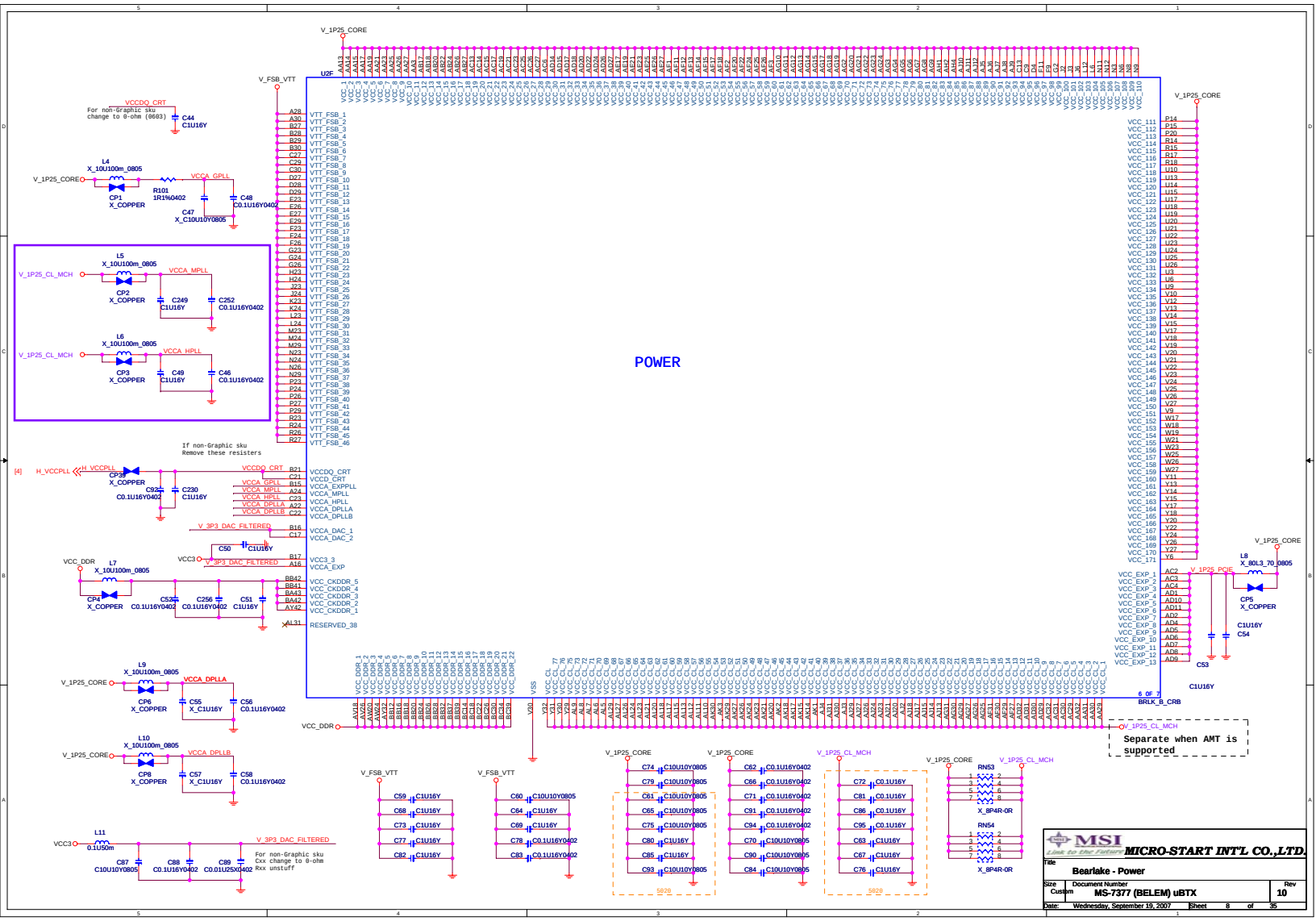
Title: Intel LGA775 CPU - GND

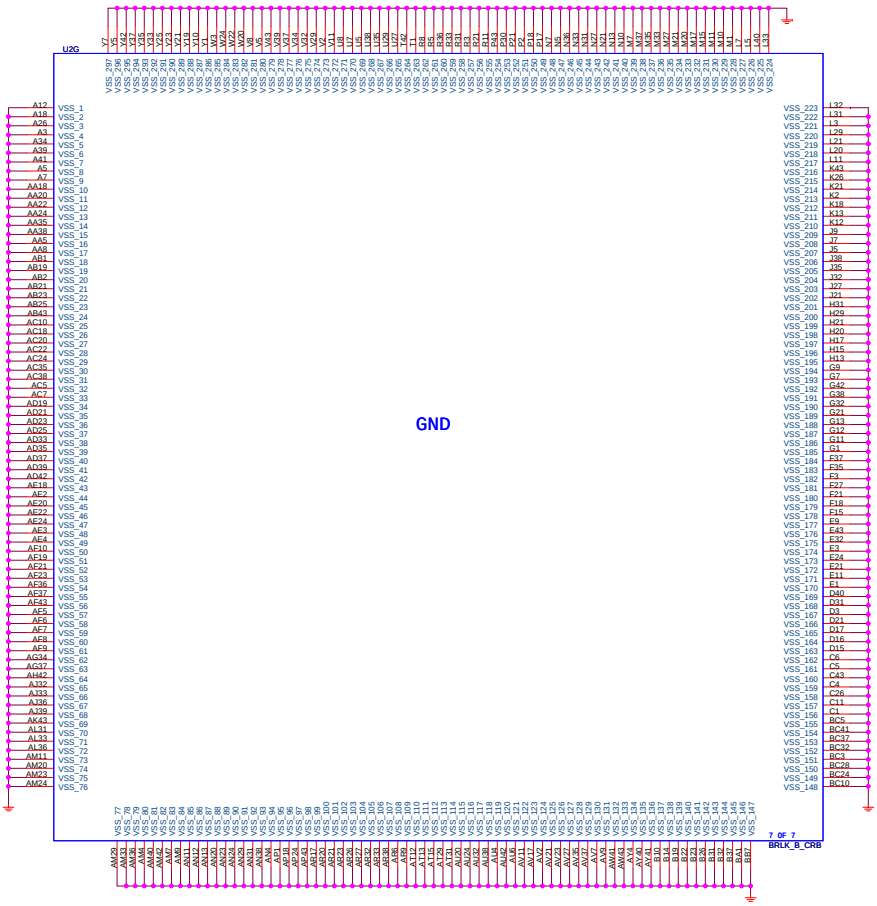
Size: Custom | Document Number: MS-7377 (BELEM) uBTX | Rev: 10

Date: Friday, August 17, 2007 | Sheet 5 of 35









MSI MICRO-STAR INT'L CO.,LTD.

Title: Bearlake - GND

Size: Custom | Document Number: MS-7377 (BELEM) uBTX | Rev: 10

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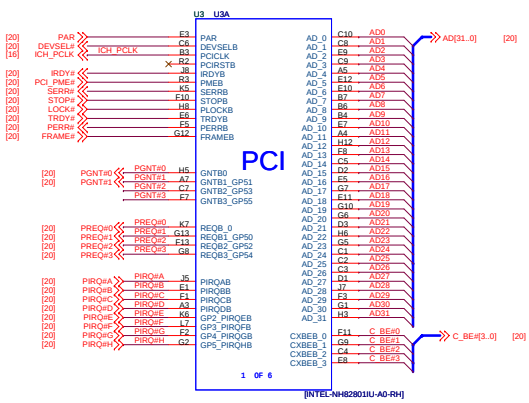

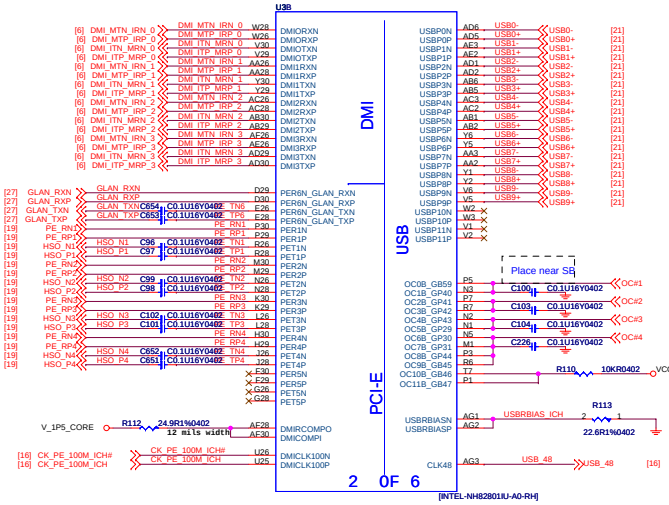

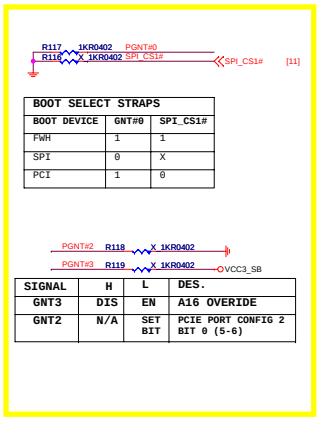

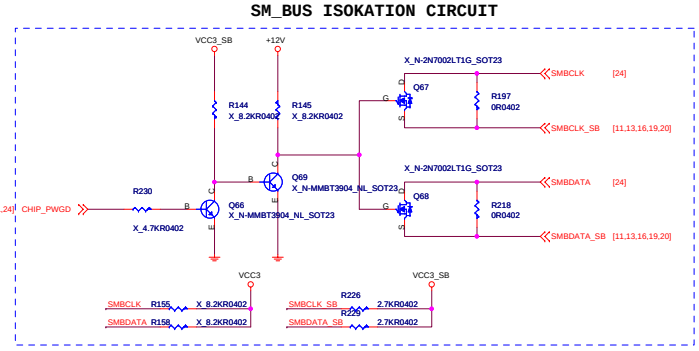

MSI MICRO-STAR INT'L CO.,LTD.

Title	ICH9 - PCI, DMI, USB, PCIE & Slots	
Size: Custom	Document Number: MS-7377 (BELEM) uBTX	Rev: 10
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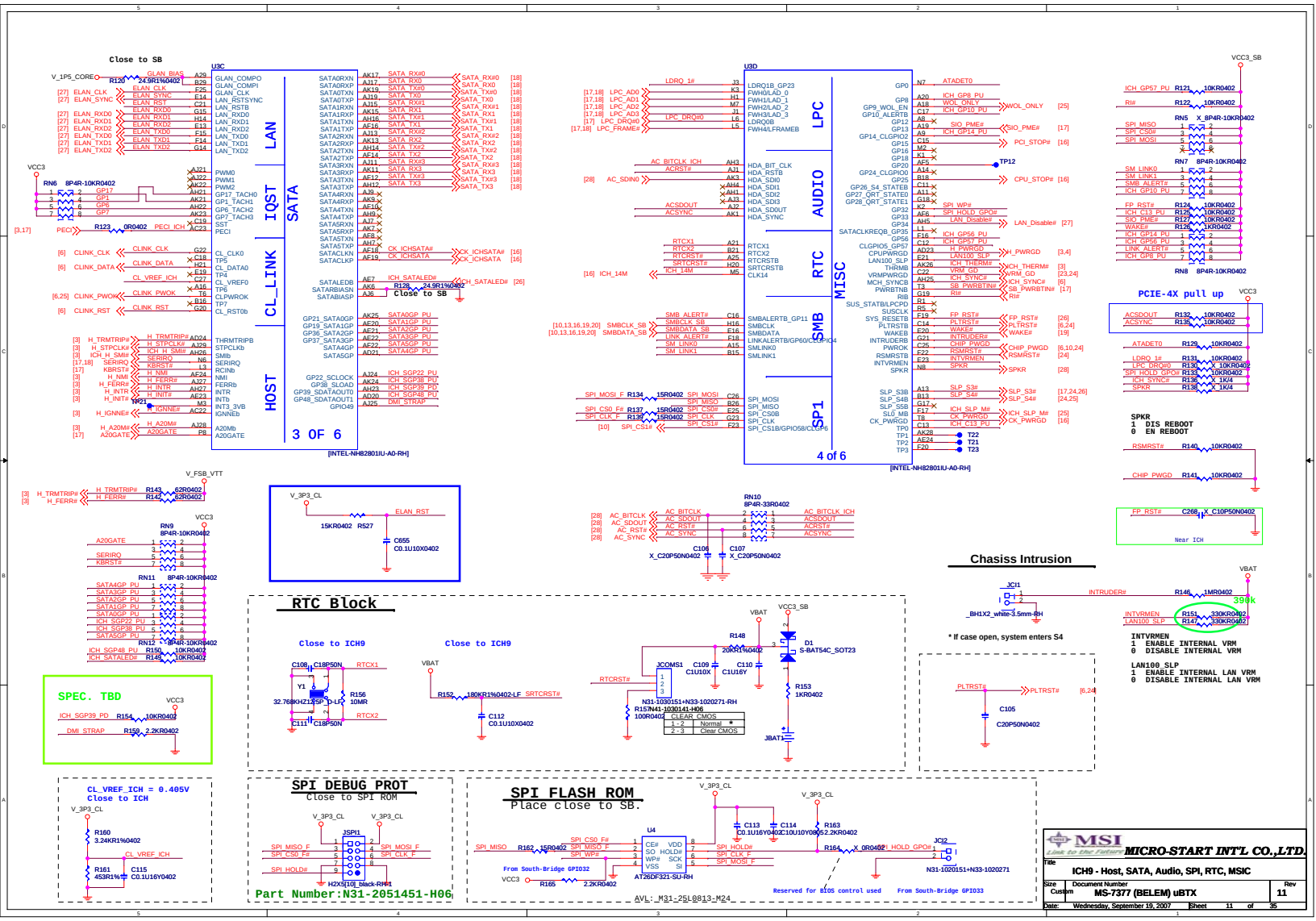
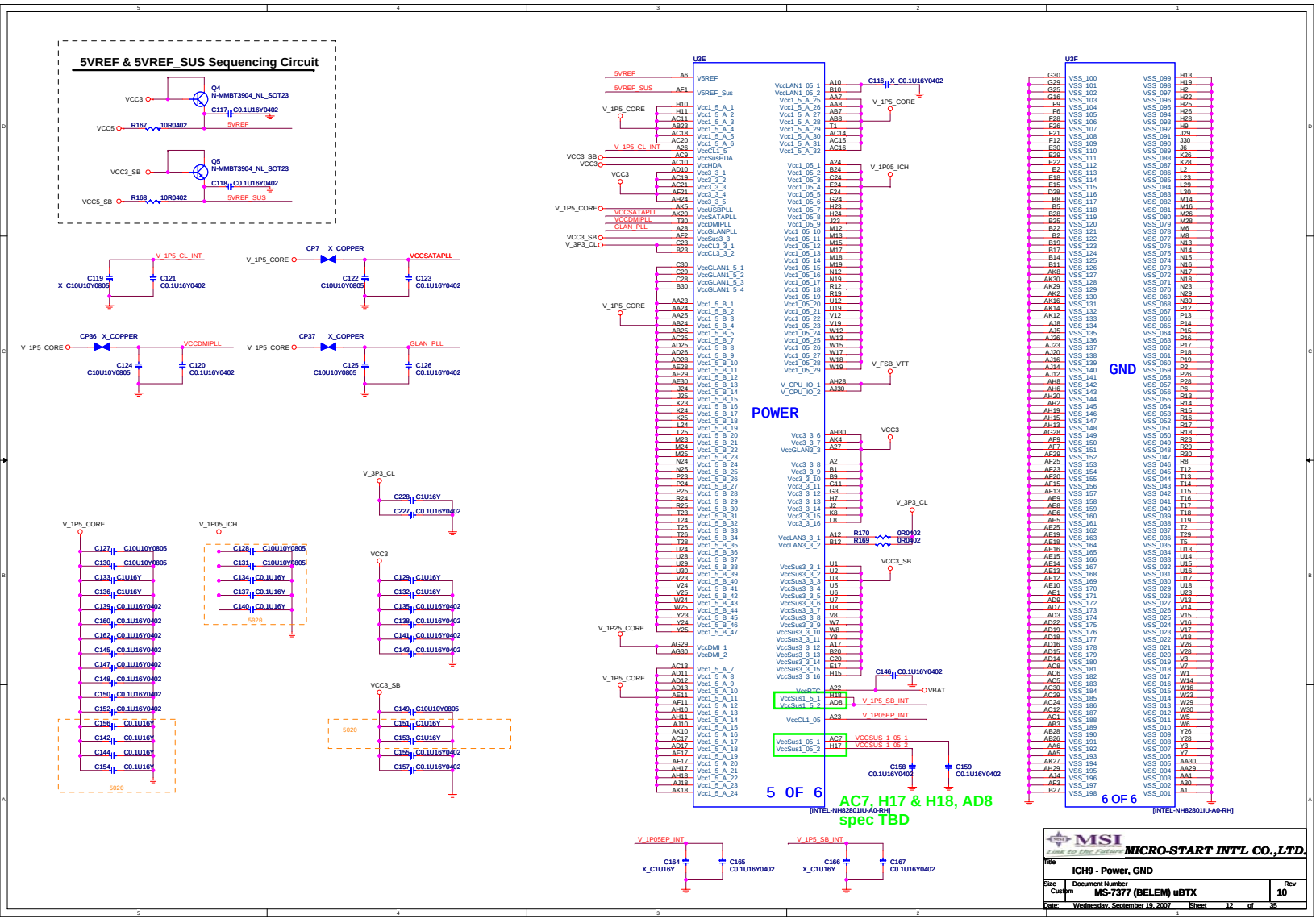
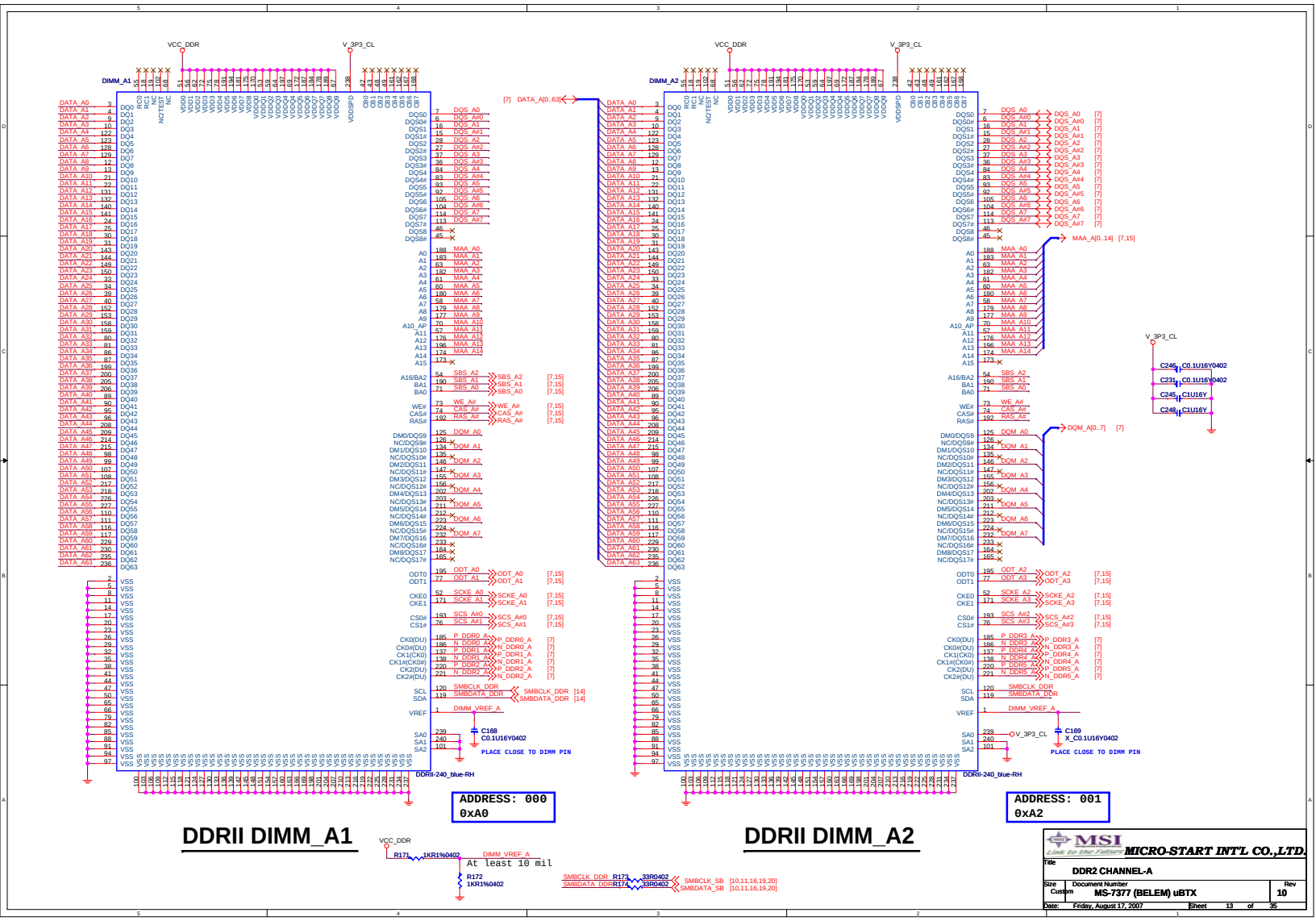
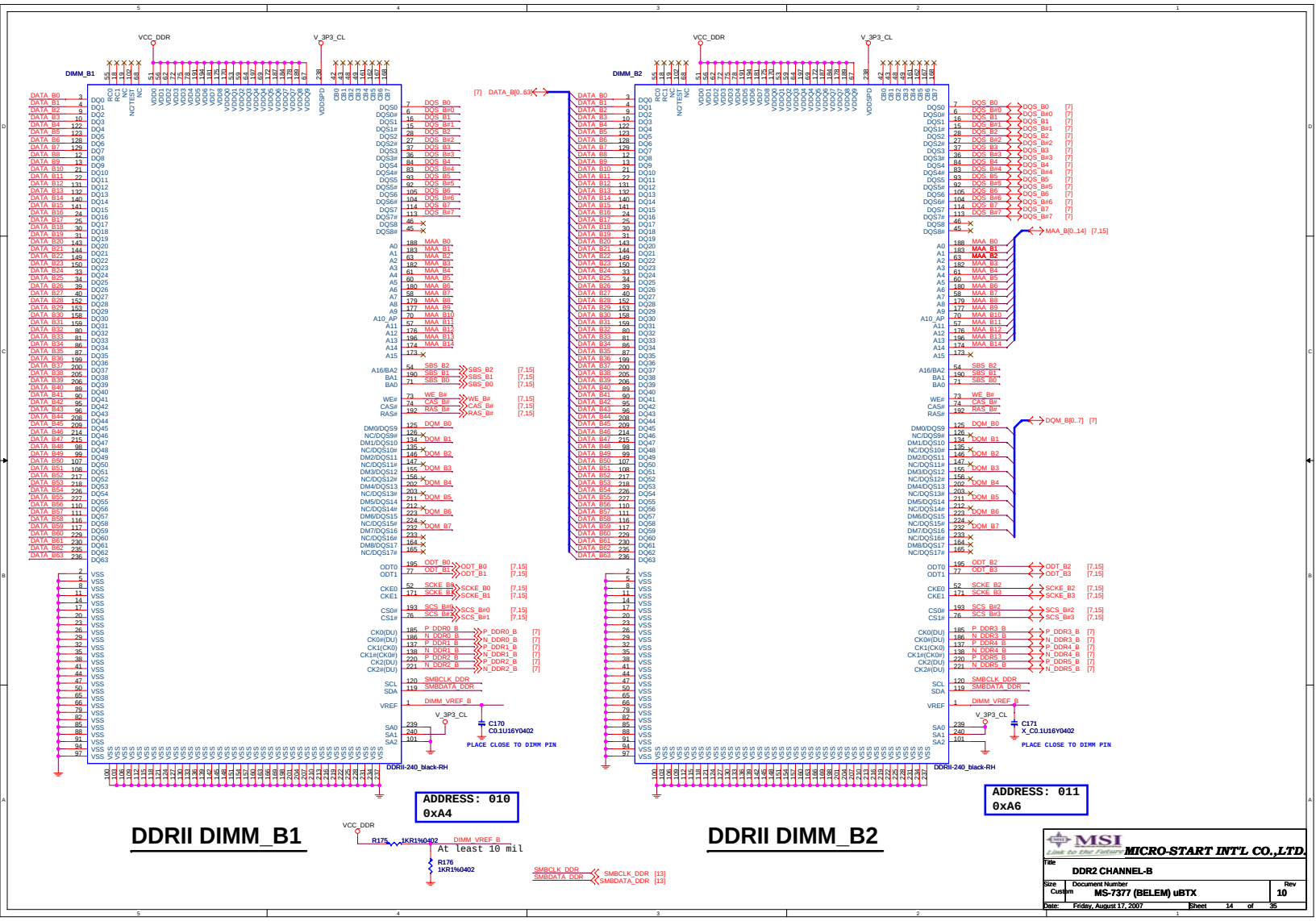
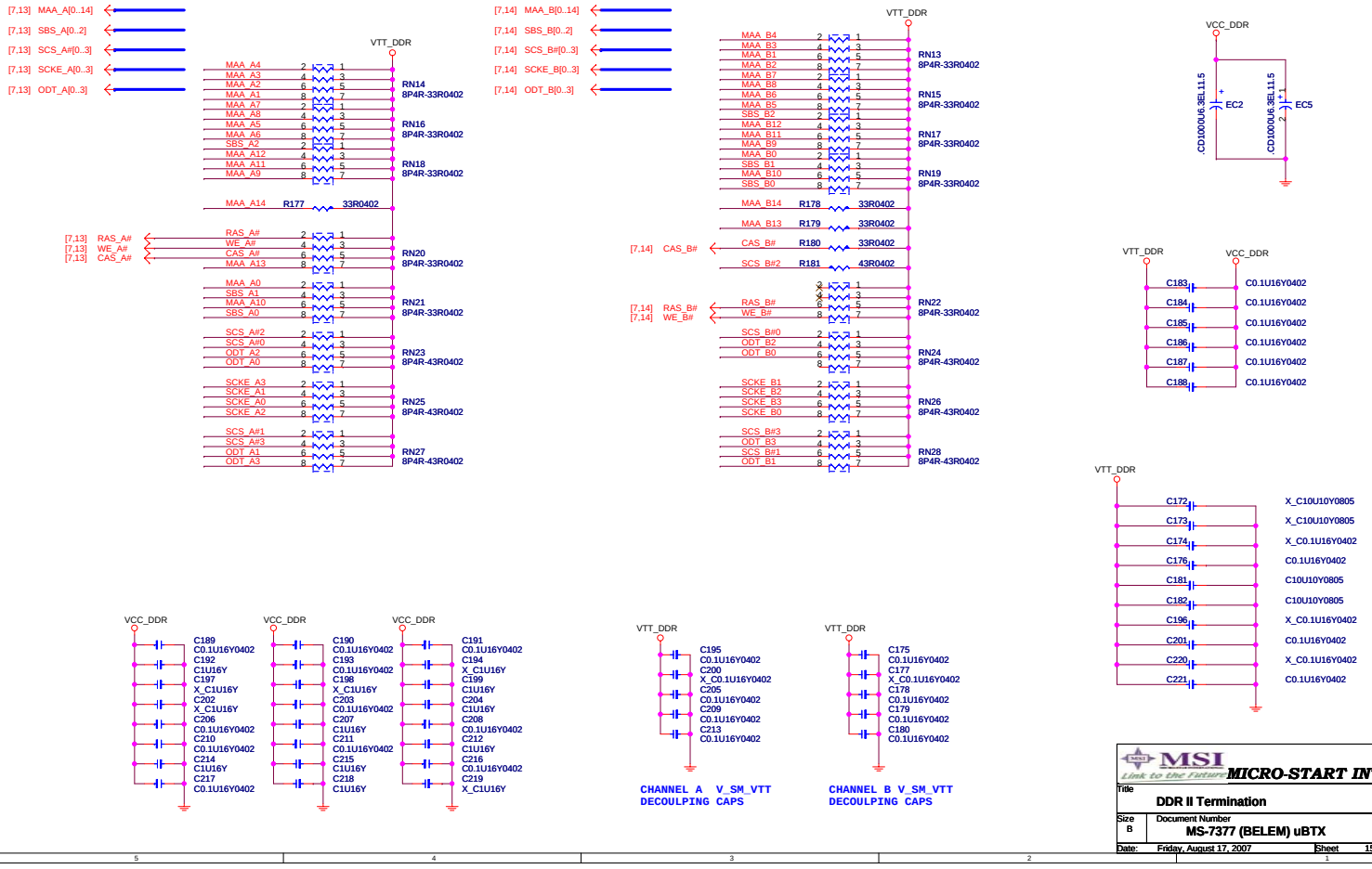








DDR II Termination



MICRO-START INT'L CO.,LTD.

Title	DDR II Termination	
Size B	Document Number MS-7377 (BELEM) uBTX	Rev 10
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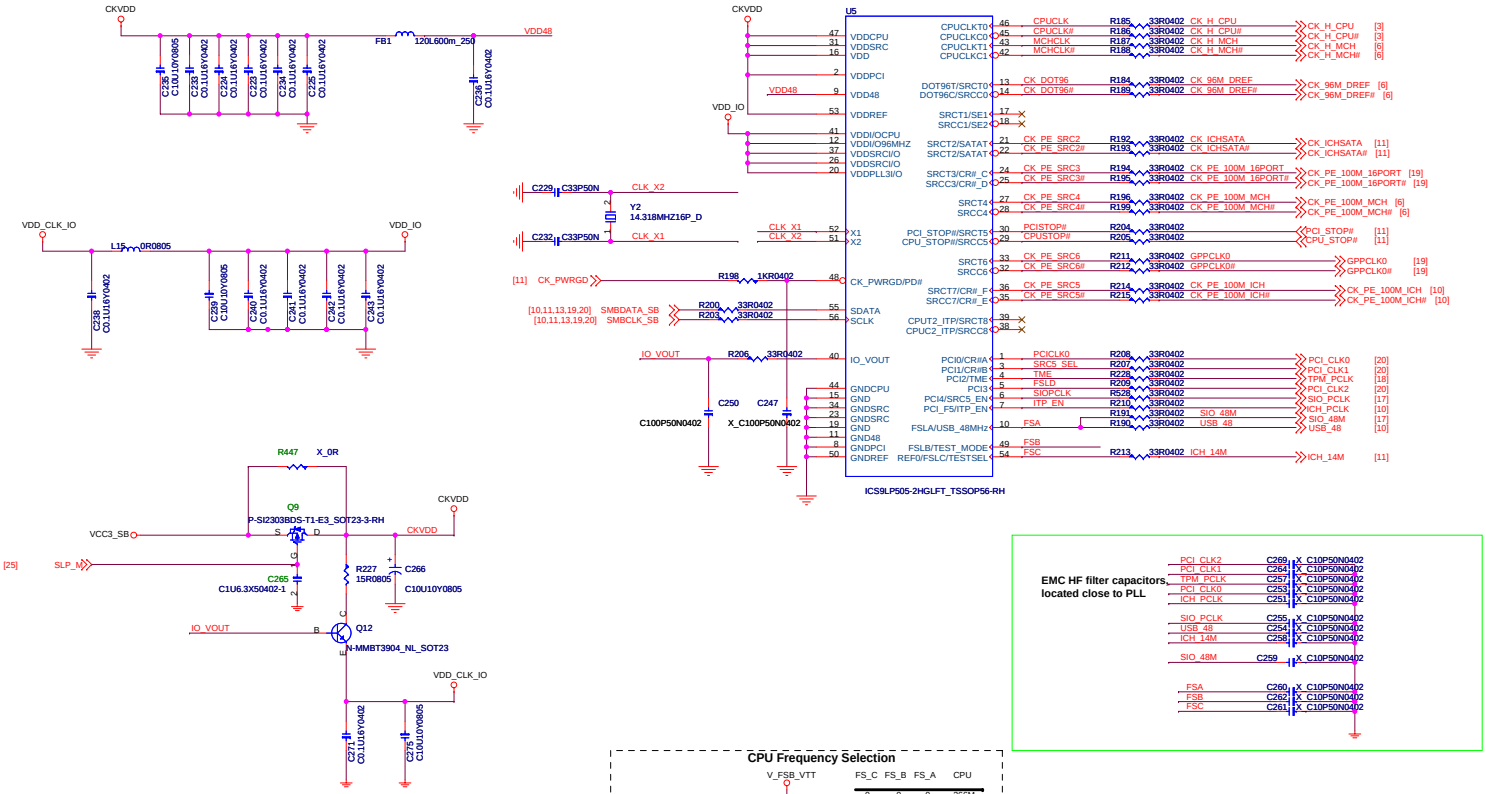
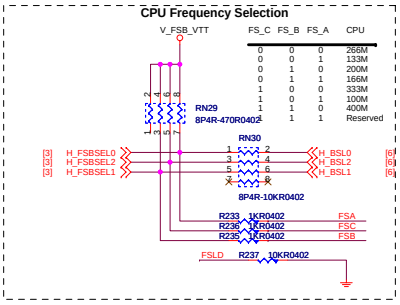
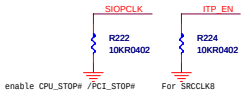
Clock Generator -ICS9LP505-2HGLFT

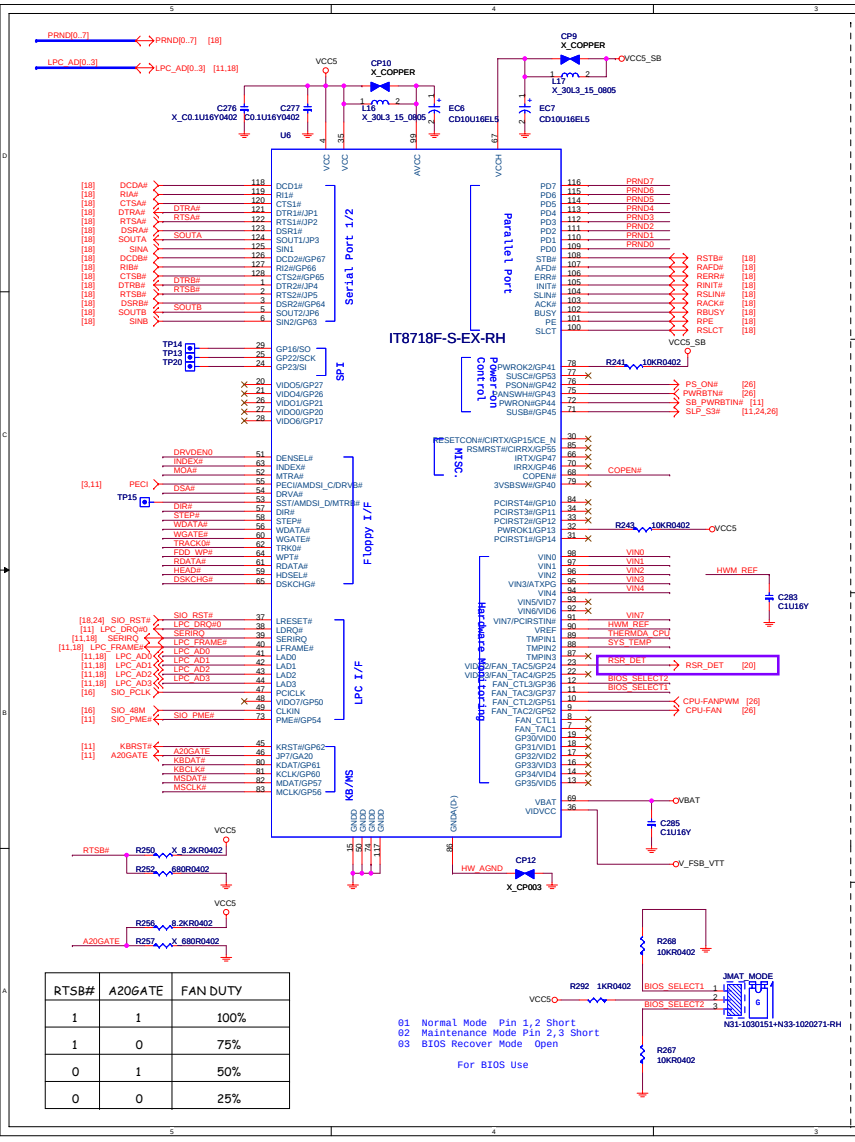






MSI Link to the Future **MICRO-START INT'L CO.,LTD.**

Title	CY505YC56DT CLK Gen.	
Size: Custom	Document Number: MS-7377 (BELEM) uBTX	Rev: 10
Date: Friday, August 17, 2007	Sheet 16 of 35	



RTSB#	A20GATE	FAN DUTY
1	1	100%
1	0	75%
0	1	50%
0	0	25%

MICRO-START INT'L CO.,LTD.

Title: LPC I/O IT8718F

Size: Custom | Document Number: MS-7377 (BELEM) uBTX | Rev: 10

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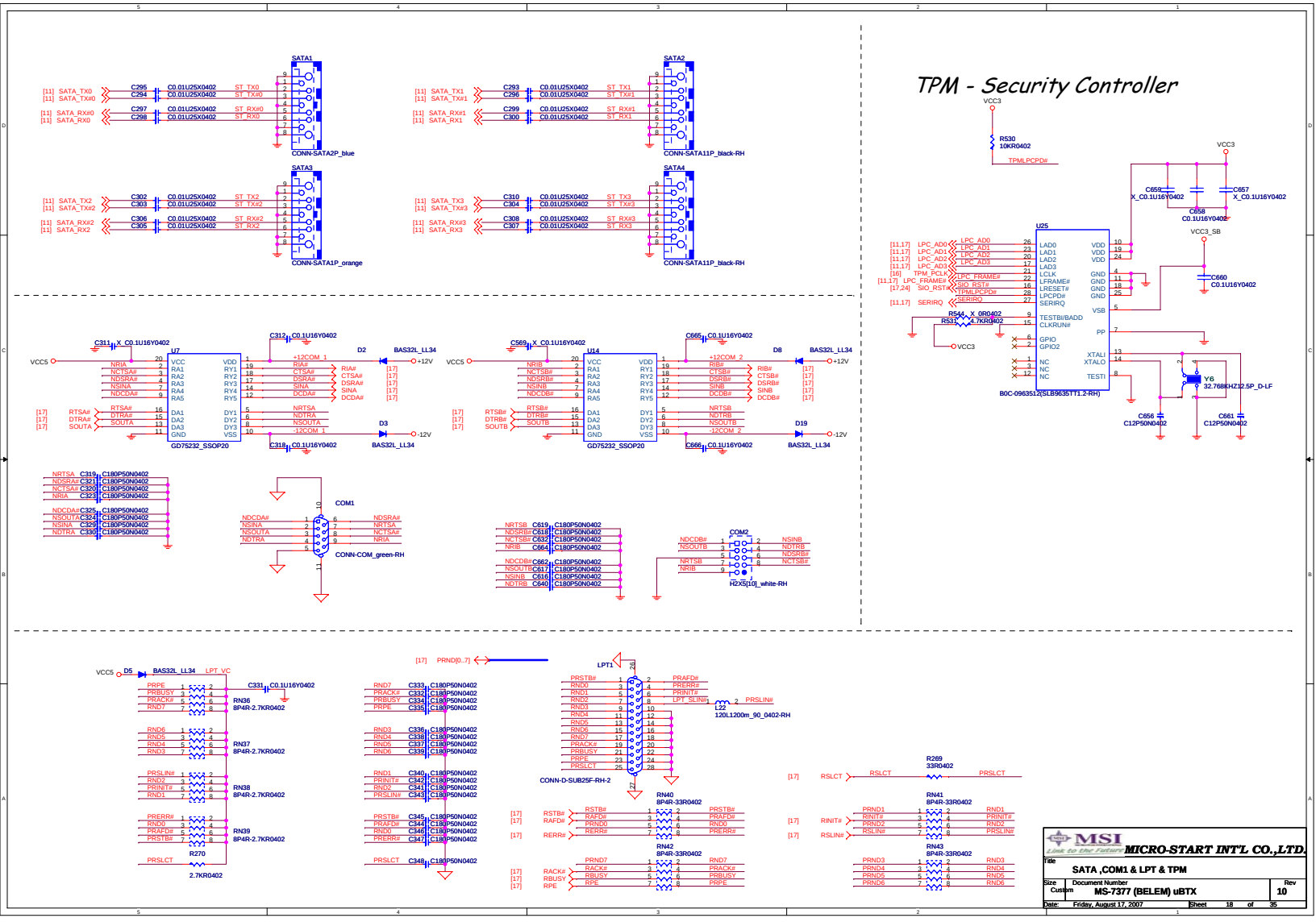
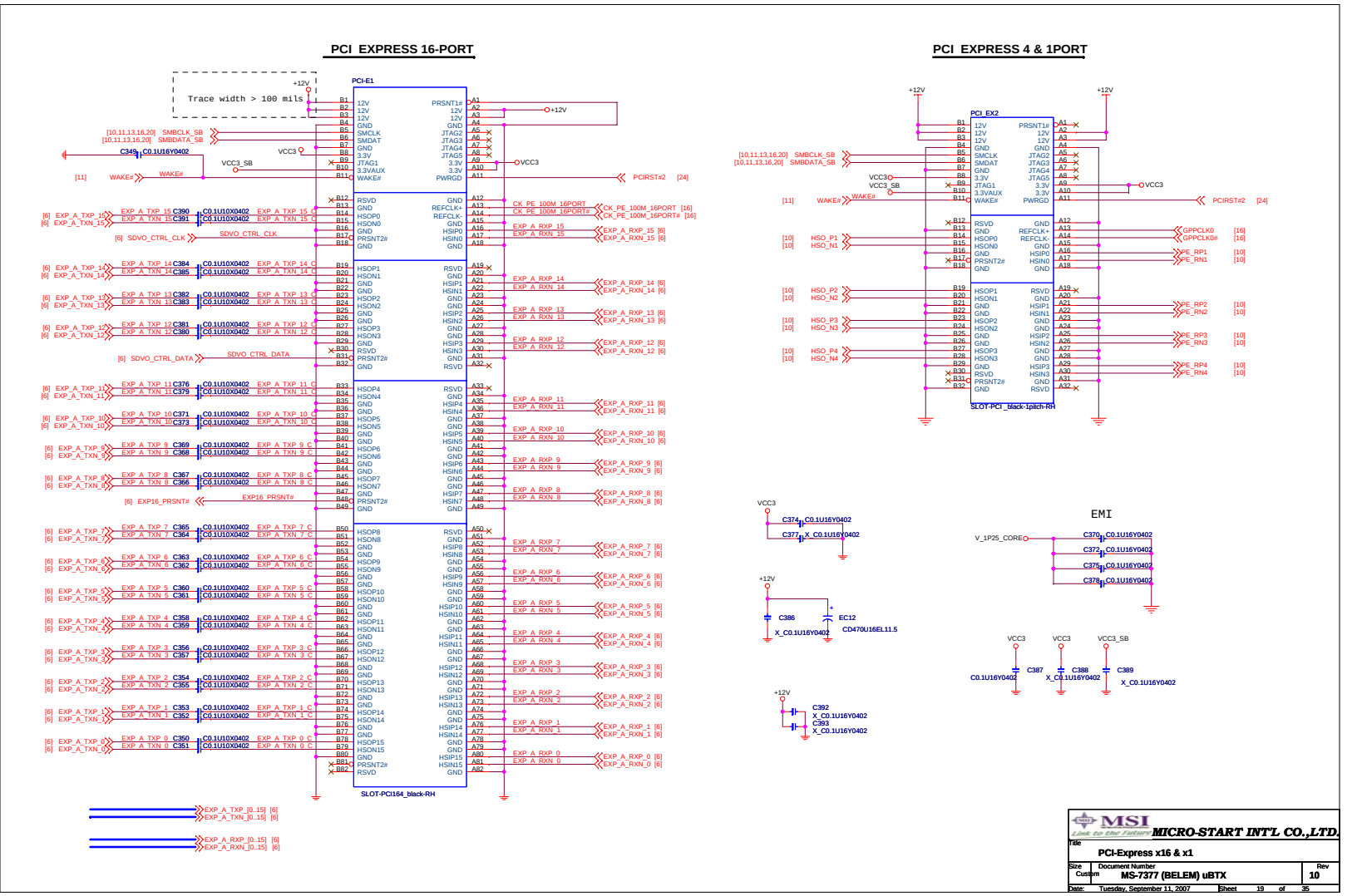
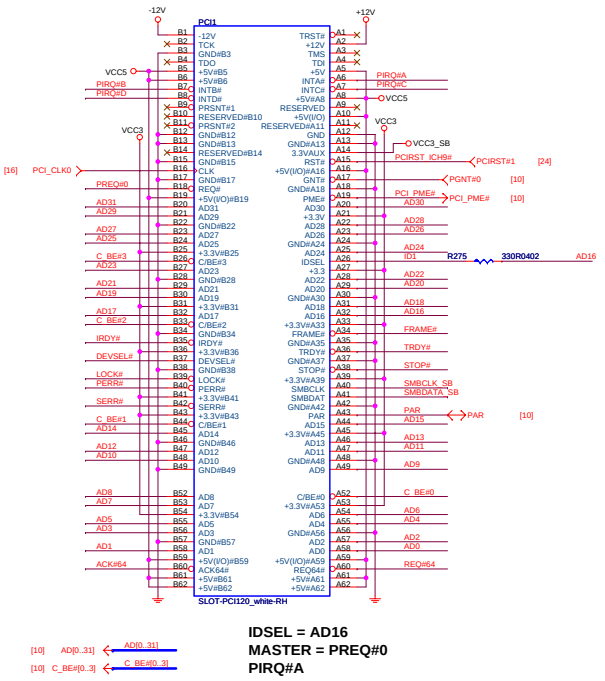
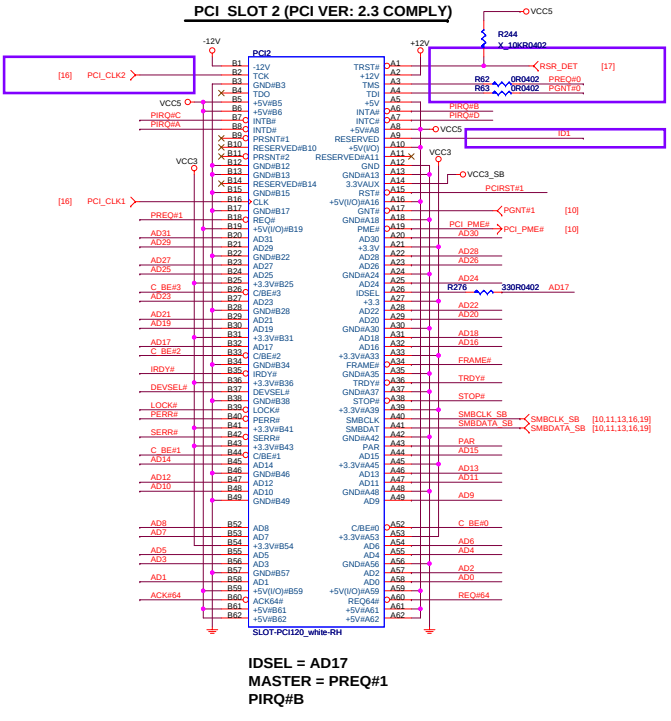




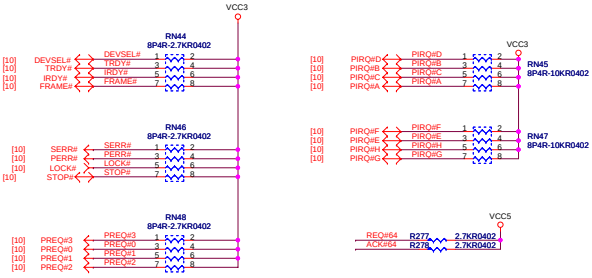
PCI SLOT 2 (PCI VER: 2.3 COMPLY)



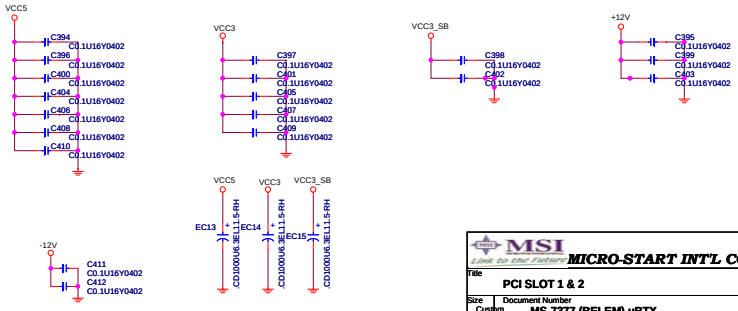
PCI SLOT 2 (PCI VER: 2.3 COMPLY)



PCI PULL-UP / DOWN RESISTORS



PCI SLOT DECOUPLING CAPACITORS



Title	PCI SLOT 1 & 2
Size	Custom
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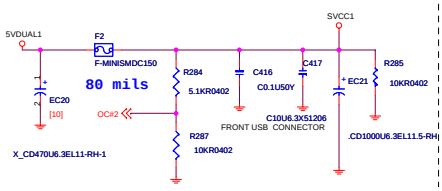
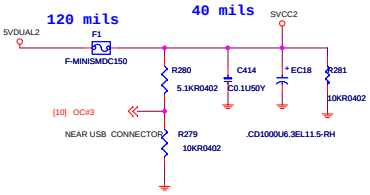
MSI Link to the Future MICRO-START INT'L CO.,LTD.

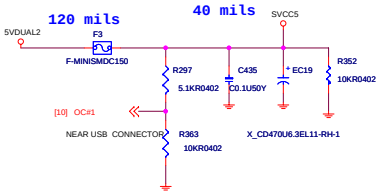
POWER CIRCUIT FOR USB PORT 0~1



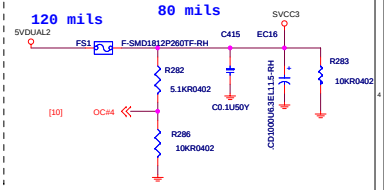
POWER CIRCUIT FOR USB PORT 2~3



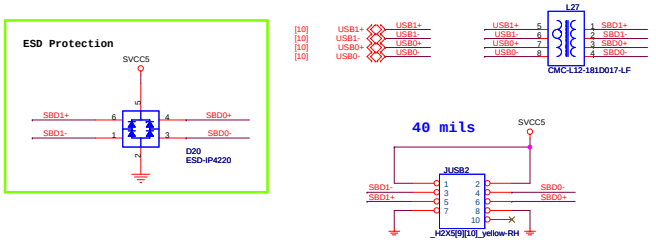
POWER CIRCUIT FOR USB PORT 2~3



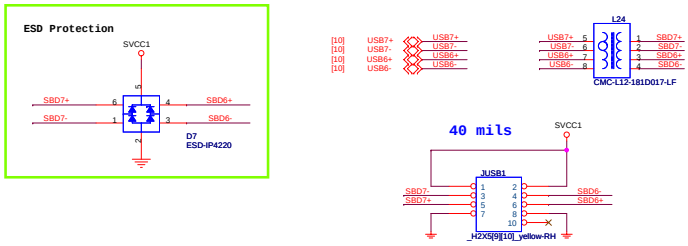
POWER CIRCUIT FOR USB PORT 4~7



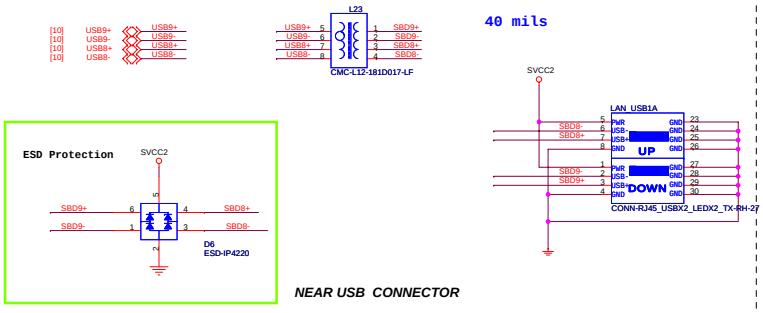
FRONT PANEL USB CONNECTOR FOR USB PORT 0,1



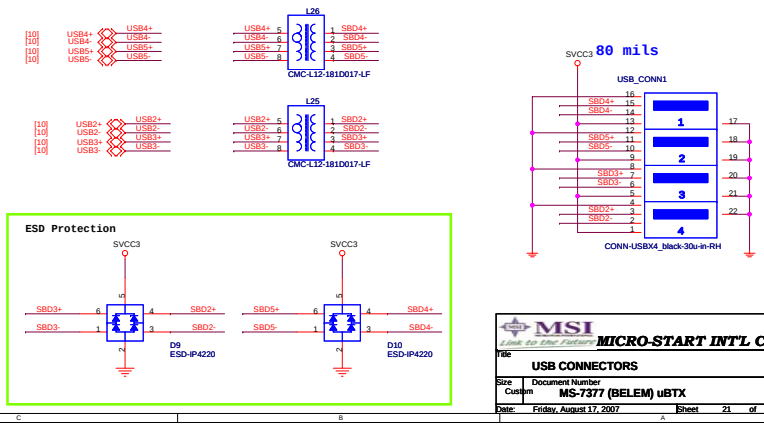
FRONT PANEL USB CONNECTOR FOR USB PORT 2,3



REAR PANEL USB CONNECTOR FOR USB PORT 4,5



REAR PANEL USB CONNECTOR FOR USB PORT 6,7



MSI Link to the Future MICRO-START INT'L CO.,LTD.

Title: USB CONNECTORS		
Size: Custom	Document Number: MS-7377 (BELEM) uBTX	Rev: 10
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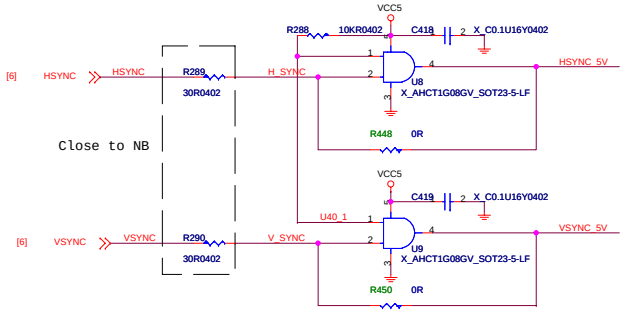
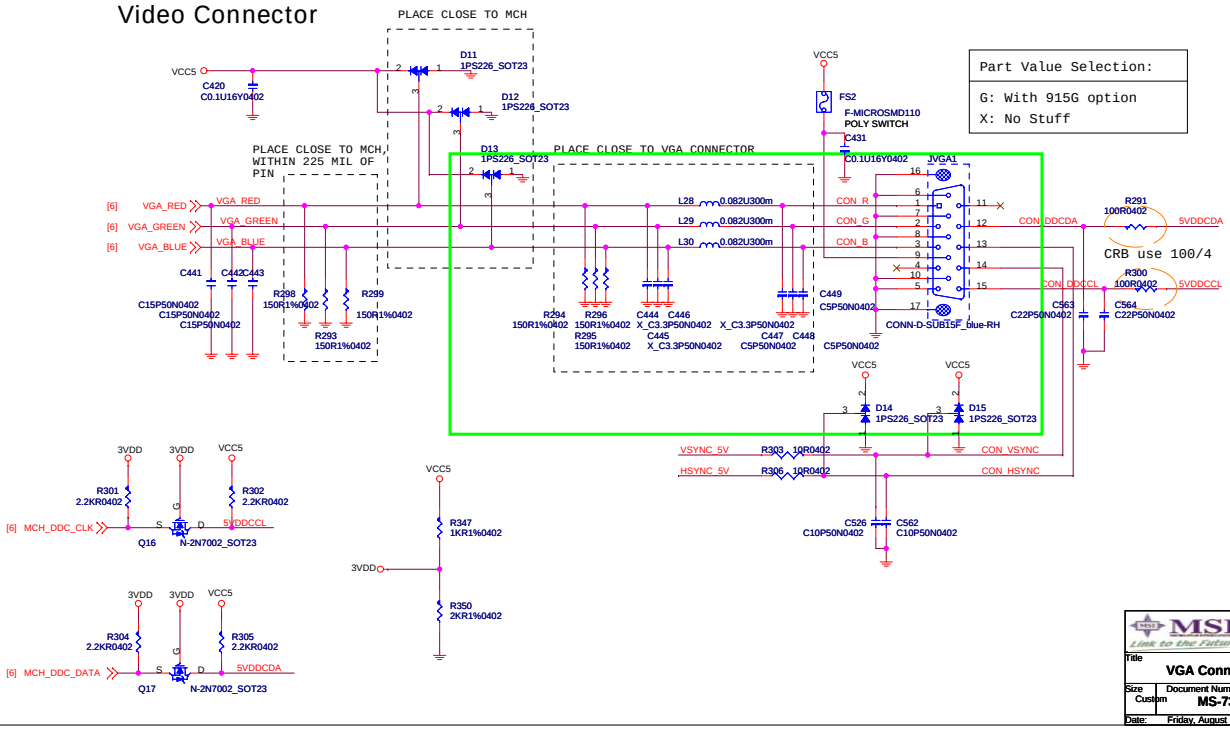
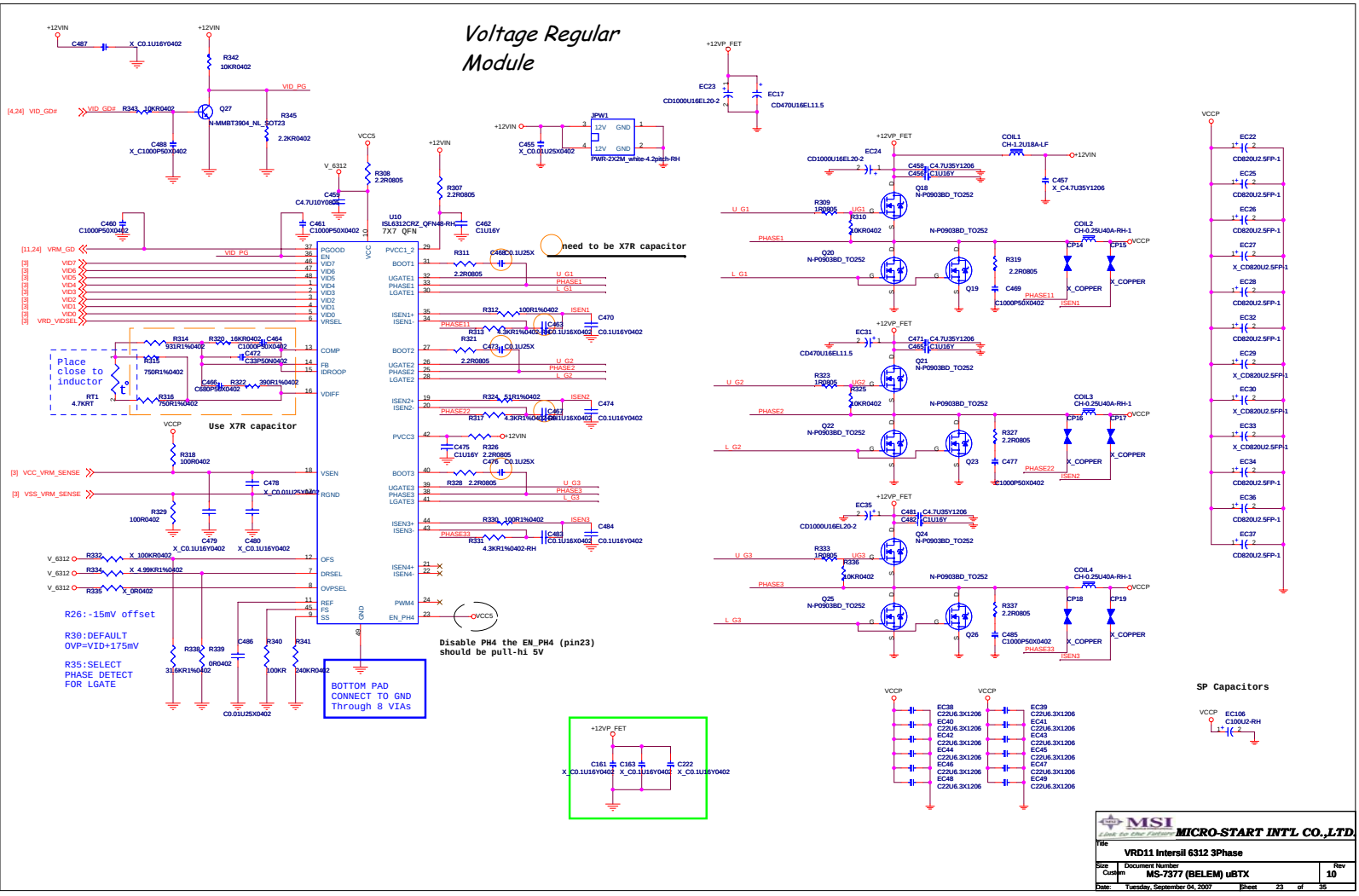
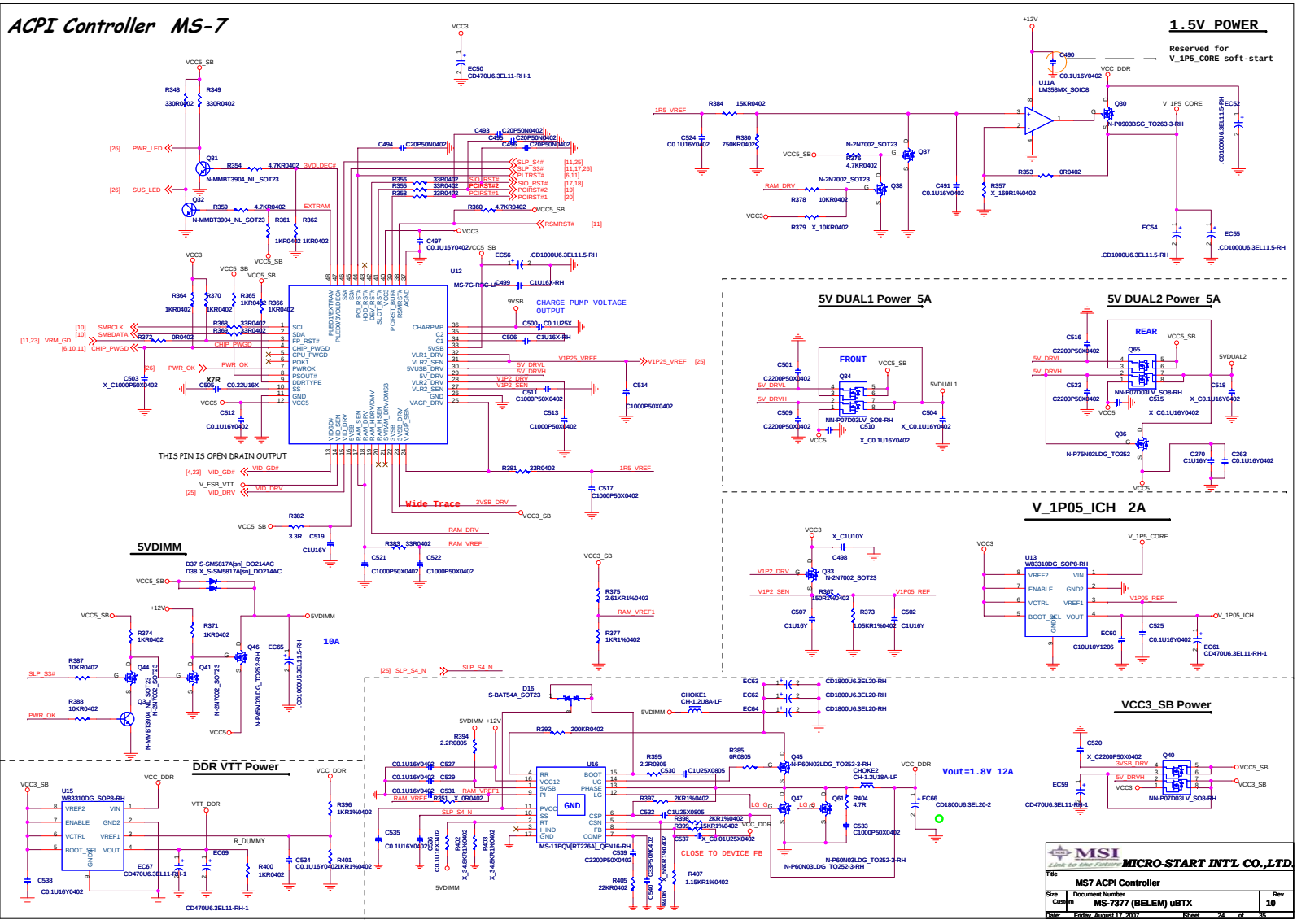




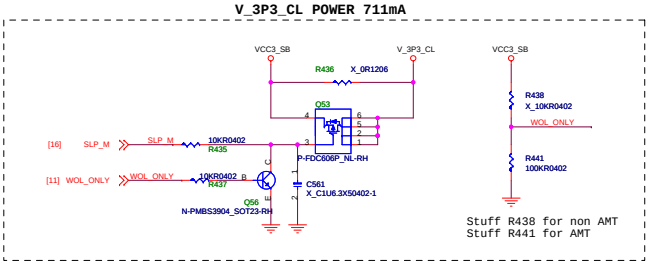
MSI Link to the Future MICRO-START INT'L CO.,LTD.

Title: VGA Conn		
Size: Custom	Document Number: MS-7377 (BELEM) uBTX	Rev: 10
Date: Friday, August 17, 2007	Sheet 22 of 35	

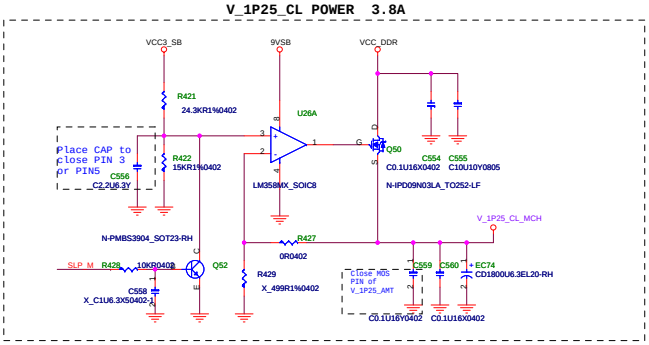




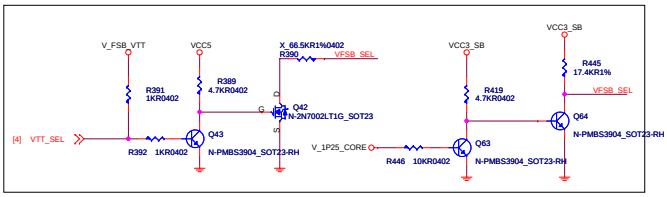
V_3P3_CL POWER 711mA



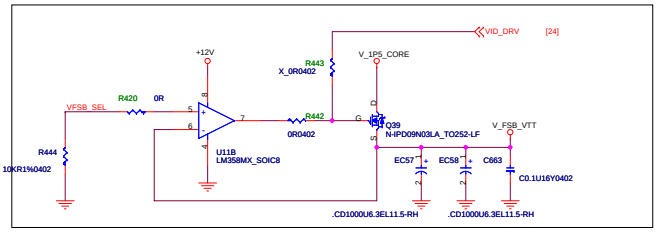
V_1P25_CL POWER 3.8A



FSB VOLTAGE SELECT CIRCUIT



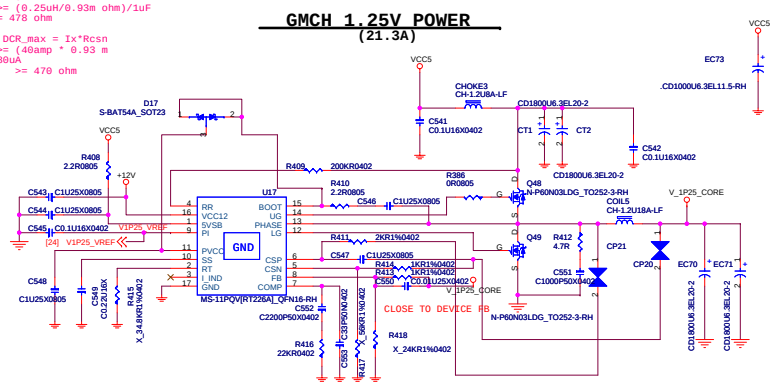
CPU FSB VTT POWER 5.8A



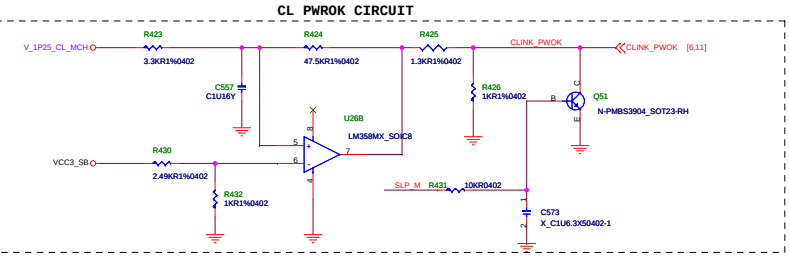
L/DCR=R*C
Rcsp >= (0.25uH/0.93m ohm)/1uF
>= 470 ohm

Iocp* DCR_max = Ix*Rcsn
Rcsn >= (40amp * 0.93 m ohm)/80uA
>= 470 ohm

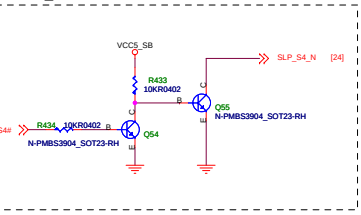
GMCH 1.25V POWER (21.3A)



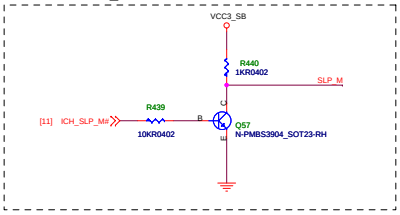
CL PWROK CIRCUIT



VCC_DDR VOLTAGE DISABLE CIRCUIT



SLP_M# CONTROL CIRCUIT



VTT_SEL = L	V_FSB_VTT=1.1V	For future KENTSFIELD processor. (FSB1333, Quad-Core)
VTT_SEL = H	V_FSB_VTT=1.2V	For normal processors.

MSI MICRO-START INT'L CO.,LTD.

Title	V_1P25_CORE & AMT	
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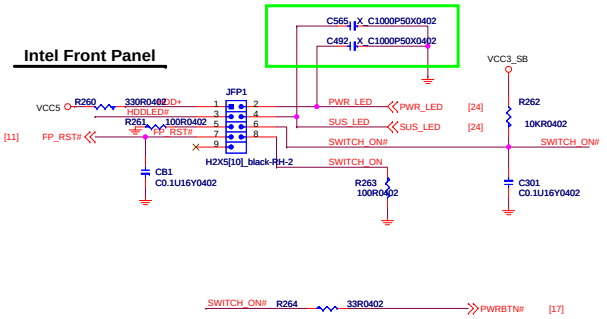
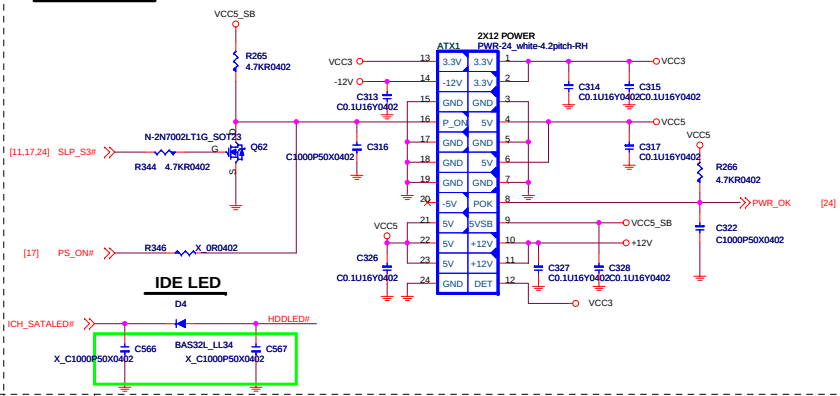
Intel Front Panel



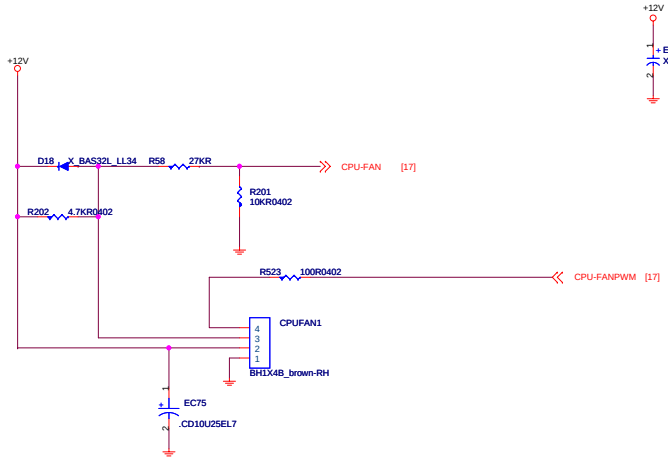
ATX Connector



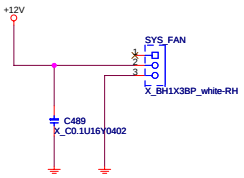
IDE LED

FAN CONTROL

CPU FAN



SYS FAN



MSI MICRO-STAR INT'L CO.,LTD.

Title	Front Panel & ATX & FAN	
Size: Custom	Document Number: MS-7377 (BELEM) uBTX	Rev: 10
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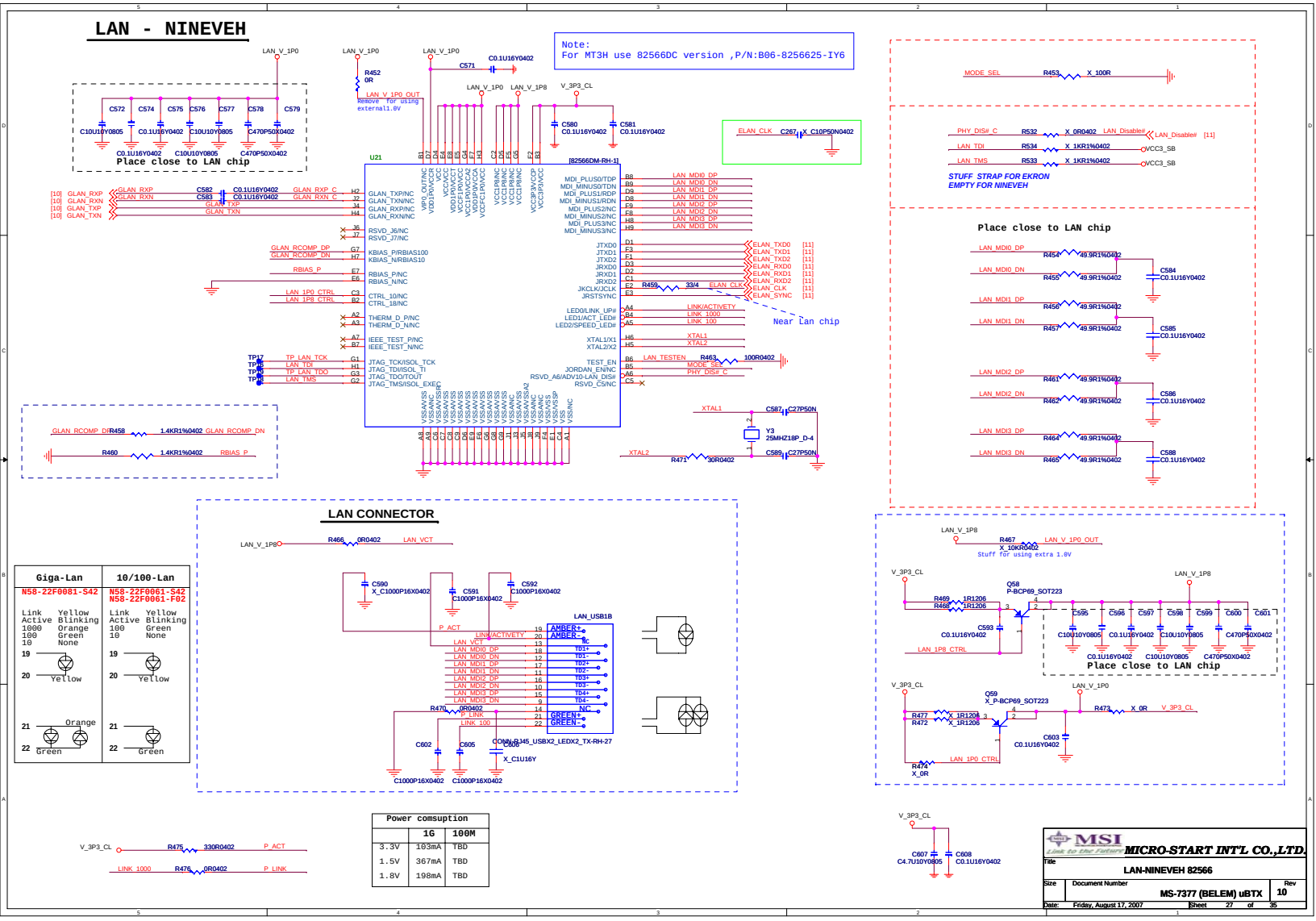
LAN - NINEVEH



Giga-Lan	10/100-Lan
N58-22F0081-S42	N58-22F0061-S42 N58-22F0061-F02
Link Yellow Active Blinking 1000 Orange 100 Green 10 None	Link Yellow Active Blinking 100 Green 10 None

Power comsuption		
	1G	100M
3.3V	103mA	TBD
1.5V	367mA	TBD
1.8V	198mA	TBD

Title	LAN-NINEVEH 82566
Size	Document Number: MS-7377 (BELEM) uBTX
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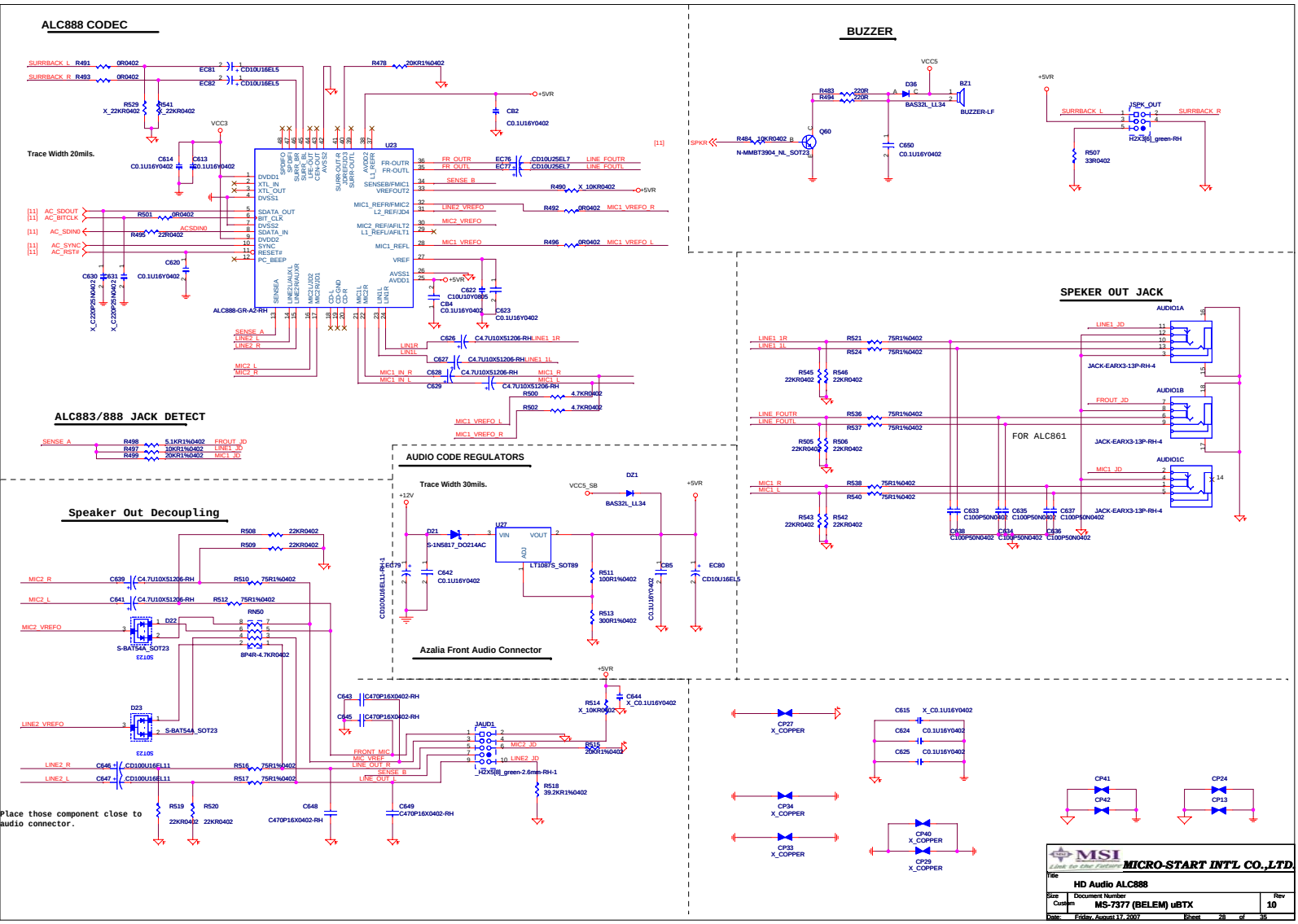
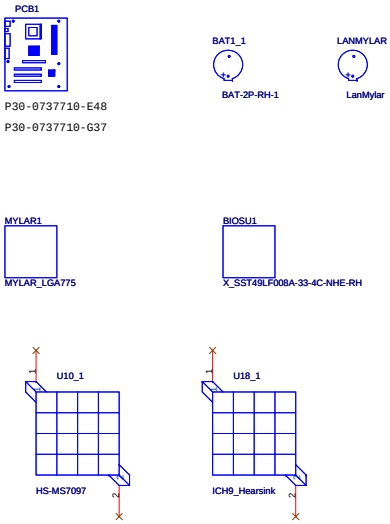
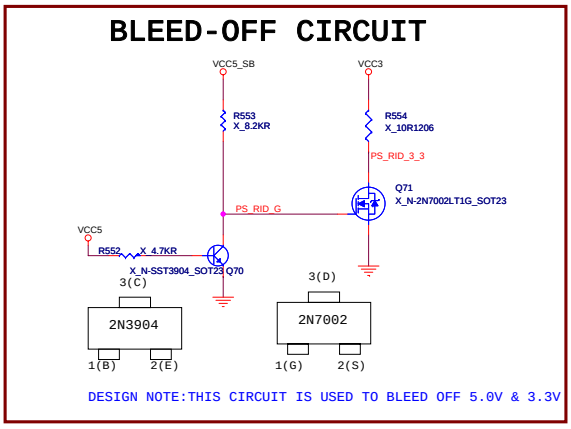
MICRO-START INT'L CO.,LTD.



MANUAL PART



Near ATX POWER Connector



Model option table

Model type	Function	BOM Config	ERP BOM No.
MS-7377	BASELINE	cfg-7000-0A	

MSI MICRO-START INTL CO.,LTD.

Title	BLOCK DIAGRAM		
Size: Custom	Document Number: MS-7377 (BELEM) uBTX		Rev: 10
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ICH9

GPIO	Alt Func	Pin	I/O/NC	Power	PU	Tol	Default	Signal Name or condition
GPIO[0]	ATADET0	N7	I/O	Vcc3	Y	3.3	INPUT	ATADET0
GPIO[1]	PULL HIGH	AK21	I/O	Vcc3	Y	3.3	INPUT	PULL HIGH 10K
GPIO[2]	PIRQ#E	K6	I/O	Vcc3	Y	3.3	INPUT	PULL HIGH 8.2K
GPIO[3]	PIRQ#F	L7	I/O	Vcc3	Y	3.3	INPUT	PULL HIGH 8.2K
GPIO[4]	PIRQ#G	F2	I/O	Vcc3	Y	3.3	INPUT	PULL HIGH 8.2K
GPIO[5]	PIRQ#H	G2	I/O	Vcc3	Y	3.3	INPUT	PULL HIGH 8.2K
GPIO[6]	PULL HIGH	AH22	I/O	Vcc3	Y	3.3	INPUT	PULL HIGH 10K
GPIO[7]	PULL HIGH	AK23	I/O	Vcc3	Y	3.3	INPUT	PULL HIGH 10K
GPIO[8]	ICH_GP8_PU	A20	I/O	Vcc3SB	Y	3.3	INPUT	PULL HIGH 10K
GPIO[9]	NC	A18	NC	Vcc3	N	3.3	WOL_EN	NC
GPIO[10]	ICH_GP10_PU	C17	I/O	Vcc3SB	Y	3.3	INPUT	PULL HIGH 10K
GPIO[11]	SMB_ALERT#	C16	I/O	Vcc3SB	Y	3.3	SMB_ALERT#	PULL HIGH 10K
GPIO[12]	NC	A8	NC	Vcc3SB	N	3.3	OUTPUT	NC
GPIO[13]	SIO_PME#	A19	I/O	Vcc3SB	Y	3.3	INPUT	SIO_PME#
GPIO[14]	ICH_GP14_PU	A9	I/O	Vcc3SB	Y	3.3	INPUT	PULL HIGH 10K
GPIO[15]	NC	C15	NC	Vcc3SB	Y	3.3	STP_PCI#	NC
GPIO[16]	NC	M2	NC	Vcc3	Y	3.3	OUTPUT	NC
GPIO[17]	PULL HIGH	AH21	I/O	Vcc3	Y	3.3	INPUT	PULL HIGH 10K
GPIO[18]	NC	K1	NC	Vcc3	N	3.3	OUTPUT	NC
GPIO[19]	SATA1GP_PU	AE20	I/O	Vcc3	Y	3.3	INPUT	PULL HIGH 10K
GPIO[20]	NC	AF5	NC	Vcc3	N	3.3	OUTPUT	NC
GPIO[21]	SATA0GP_PU	AK25	I/O	Vcc3	Y	3.3	INPUT	PULL HIGH 10K
GPIO[22]	ICH_SGP22_PU	AJ24	I/O	Vcc3	Y	3.3	INPUT	PULL HIGH 10K
GPIO[23]	LDRQ_1#	J3	I/O	Vcc3	Y	3.3	LDRQ_1#	PULL HIGH 10K
GPIO[24]	NC	A14	NC	Vcc3SB	N	3.3	OUTPUT	NC
GPIO[25]	NC	B18	NC	Vcc3SB	N	3.3	STP_CPU#	NC
GPIO[26]	NC	C11	NC	Vcc3SB	N	3.3	S4_STATE#	NC
GPIO[27]	NC	A11	NC	Vcc3SB	N	3.3	QRT_STATE0	NC
GPIO[28]	NC	G18	NC	Vcc3SB	N	3.3	QRT_STATE1	NC
GPIO[29]	OC#2	N1	I/O	Vcc3SB	Y	3.3	OC#2	OC#2
GPIO[30]	OC#3	N5	I/O	Vcc3SB	Y	3.3	OC#3	OC#3
GPIO[31]	OC#3	M1	I/O	Vcc3SB	Y	3.3	OC#3	OC#3
GPIO[32]	SPI_WP#	K2	I/O	Vcc3	N	3.3	OUTPUT	SPI_WP#
GPIO[33]	SPI_HOLD_GPO#	AF6	I/O	Vcc3	N	3.3	OUTPUT	SPI_HOLD_GPO#
GPIO[34]	LAN_Disable#	AH5	I/O	Vcc3	N	3.3	OUTPUT	LAN_Disable#
GPIO[35]	NC	L1	NC	Vcc3	N	3.3	OUTPUT	NC
GPIO[36]	SATA2GP_PU	AE21	I/O	Vcc3	Y	3.3	INPUT	SATA2GP_PU
GPIO[37]	SATA3GP_PU	AE22	I/O	Vcc3	Y	3.3	INPUT	SATA3GP_PU
GPIO[38]	ICH_SGP38_PU	AK24	I/O	Vcc3	Y	3.3	INPUT	ICH_SGP38_PU
GPIO[39]	ICH_SGP39_PD	AH23	I/O	Vcc3	Y	3.3	SDATAOUT0	ICH_SGP39_PD
GPIO[40]	OC#1	N3	I/O	Vcc3SB	Y	3.3	OC#1	OC#1
GPIO[41]	OC#1	P7	I/O	Vcc3SB	Y	3.3	OC#1	OC#1
GPIO[42]	OC#1	R7	I/O	Vcc3SB	Y	3.3	OC#1	OC#1
GPIO[43]	OC#2	N2	I/O	Vcc3SB	Y	3.3	OC#2	OC#2
GPIO[44]	OC#3	P3	I/O	Vcc3SB	Y	3.3	OC#3	OC#3
GPIO[45]	OC#3	R6	I/O	Vcc3SB	Y	3.3	OC#3	OC#3
GPIO[46]	PULL HIGH	T7	I/O	Vcc3SB	Y	3.3	OC#	PULL HIGH 10K
GPIO[47]	PULL HIGH	P1	I/O	Vcc3SB	Y	3.3	OC#	PULL HIGH 10K
GPIO[48]	ICH_SGP48_PD	AD20	I/O	Vcc3	Y	3.3	SDATAOUT1	PULL HIGH 10K
GPIO[49]	DMI_STRAP	AJ25	I/O	Vcc3	N	3.3	OUTPUT	PULL LOW 2.2K
GPIO[50]	PREQ#1	G13	I/O	Vcc5	Y	5.5	PREQ#1	PULL HIGH 2.7K
GPIO[51]	NC	A7	I/O	Vcc3	N	3.3	PGNT#1	NC
GPIO[52]	PREQ#2	F13	I/O	Vcc5	Y	5.5	PREQ#2	PULL HIGH 2.7K
GPIO[53]	PGNT#2	C7	I/O	Vcc3	N	3.3	PGNT#2	STRAP PIN
GPIO[54]	PREQ#3	G8	I/O	Vcc5	Y	5.5	PREQ#3	PULL HIGH 2.7K
GPIO[55]	PGNT#3	F7	I/O	Vcc3	N	3.3	PGNT#3	STRAP PIN
GPIO[56]	ICH_GP56_PU	F16	I/O	Vcc3SB	Y	3.3	GPIO_SEL	PULL HIGH 10K
GPIO[57]	ICH_GP57_PU	C12	I/O	Vcc3SB	Y	3.3	INPUT	PULL HIGH 10K
GPIO[58]	SPI_CS1#	F23	I/O	Vcc3SB	Y	3.3	SPI_CS1#	SPI_CS1#
GPIO[59]	OC#1	P5	I/O	Vcc3SB	Y	3.3	OC#1	OC#1
GPIO[60]	LINK_ALERT#	F18	I/O	Vcc3SB	Y	3.3	LINK_ALERT#	LINK_ALERT#

FWH Note: FWH GPs should only be used for static options, do not put dynamic nets on these

GPIO	Pin#	Power	Tol	Signal Name
FPGI[0]	6	Main	3.3	pull-down
FPGI[1]	5	Main	3.3	pull-high
FPGI[2]	4	Main	3.3	pull-high
FPGI[3]	3	Main	3.3	pull-high
FPGI[4]	30	Main	3.3	pull-down

PCI Config.

DEVICE	MCP1 INT Pin	REQ#/GNT#	IDSEL	CLOCK
PCI1	PIRQ#A PIRQ#B PIRQ#C PIRQ#D	PREQ#0 PGNT#0	AD16	PCI_CLK0

SIO 83627DHG

PIN NAME	PIN#	USAGE	Input/Output	NOTES
MB_ID0	128	MB_ID0	INPUT	M/B Revision ID
MB_ID1	127	MB_ID1	INPUT	M/B Revision ID
MB_ID2	126	MB_ID2	INPUT	M/B Revision ID
MB_ID3	125	MB_ID3	INPUT	M/B Revision ID

DDRII DIMM Config.

DEVICE	ADDRESS	CLOCK
DIMM 1	A0H	MCLK_A0/MCLK_A#0 MCLK_A1/MCLK_A#1 MCLK_A2/MCLK_A#2
DIMM 2	A2H	MCLK_A1/MCLK_A#3 MCLK_A2/MCLK_A#4 MCLK_A2/MCLK_A#5
DIMM 3	A4H	MCLK_B0/MCLK_B#0 MCLK_B2/MCLK_B#1 MCLK_B1/MCLK_B#2
DIMM 4	A6H	MCLK_B0/MCLK_B#3 MCLK_B1/MCLK_B#4 MCLK_B2/MCLK_B#5

JUMPER SETTING

JBAT1	(1-2)NORMAL	(2-3)CLEAR

MSI MICRO-START INT'L CO.,LTD.

Title: GPIO & Jumper setting

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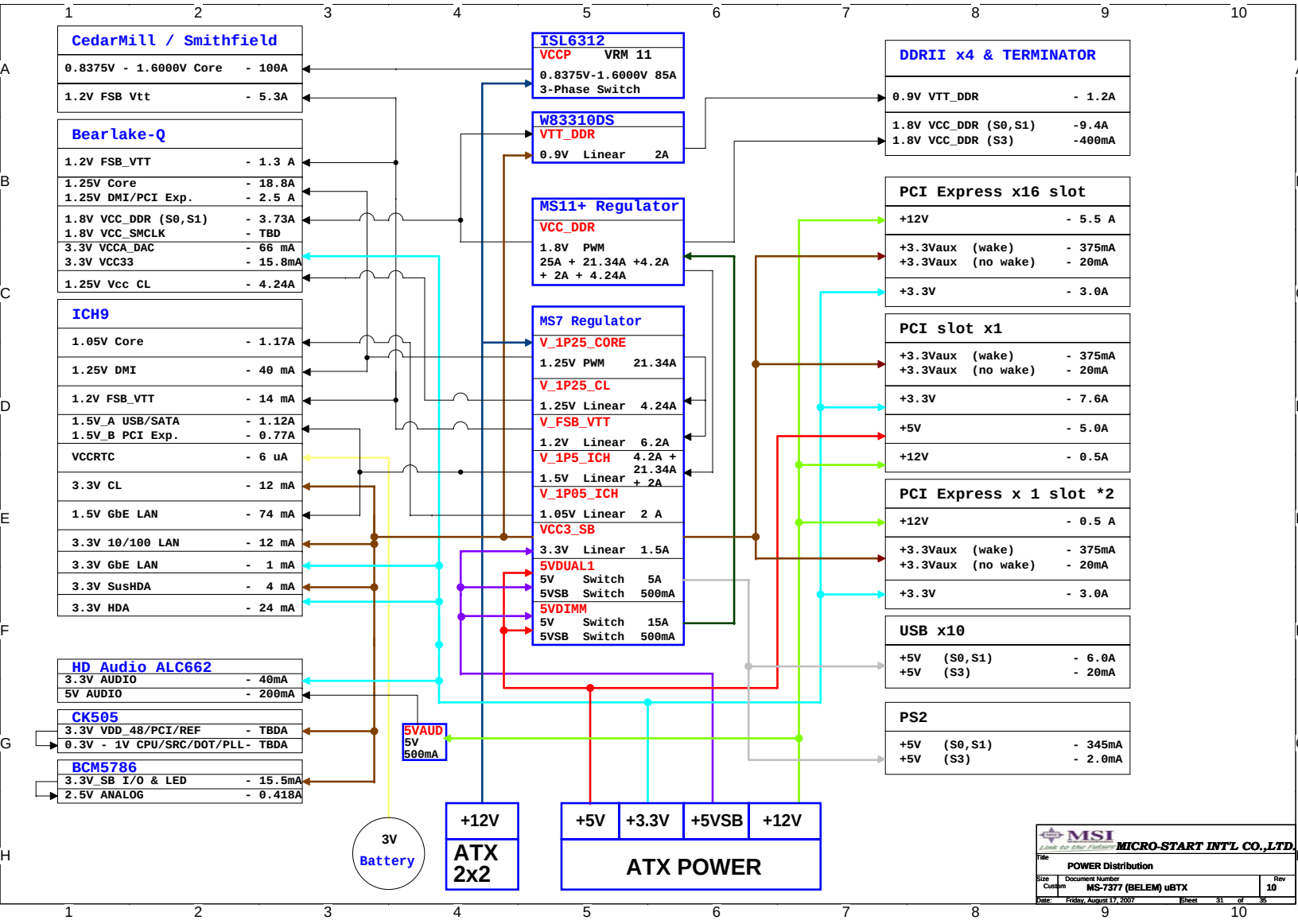
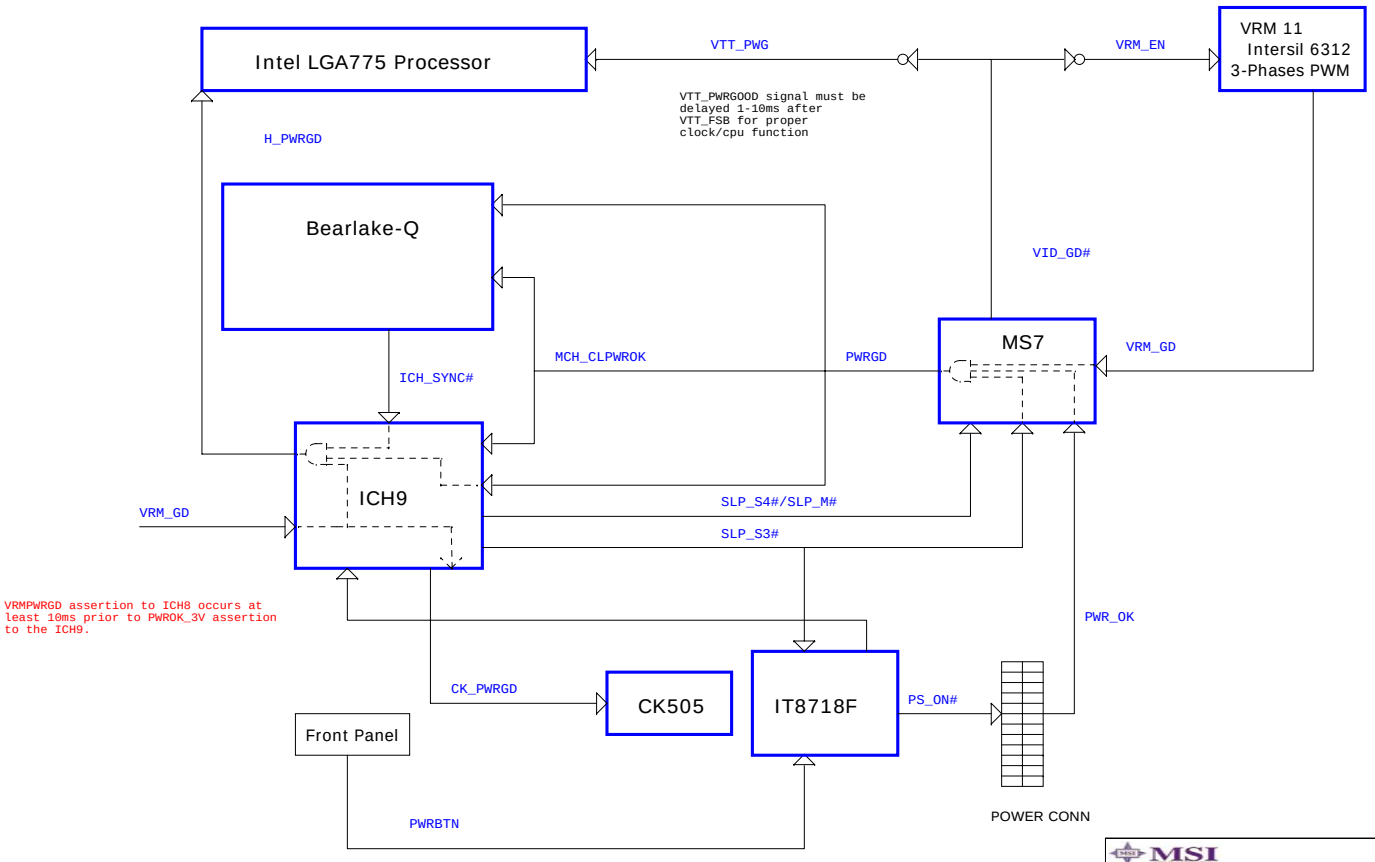


PWROK MAP



MICRO-START INTL CO.,LTD.

Title: PWROK MAP		
Size: Custom	Document Number: MS-7377 (BELEM) uBTX	Rev: 10
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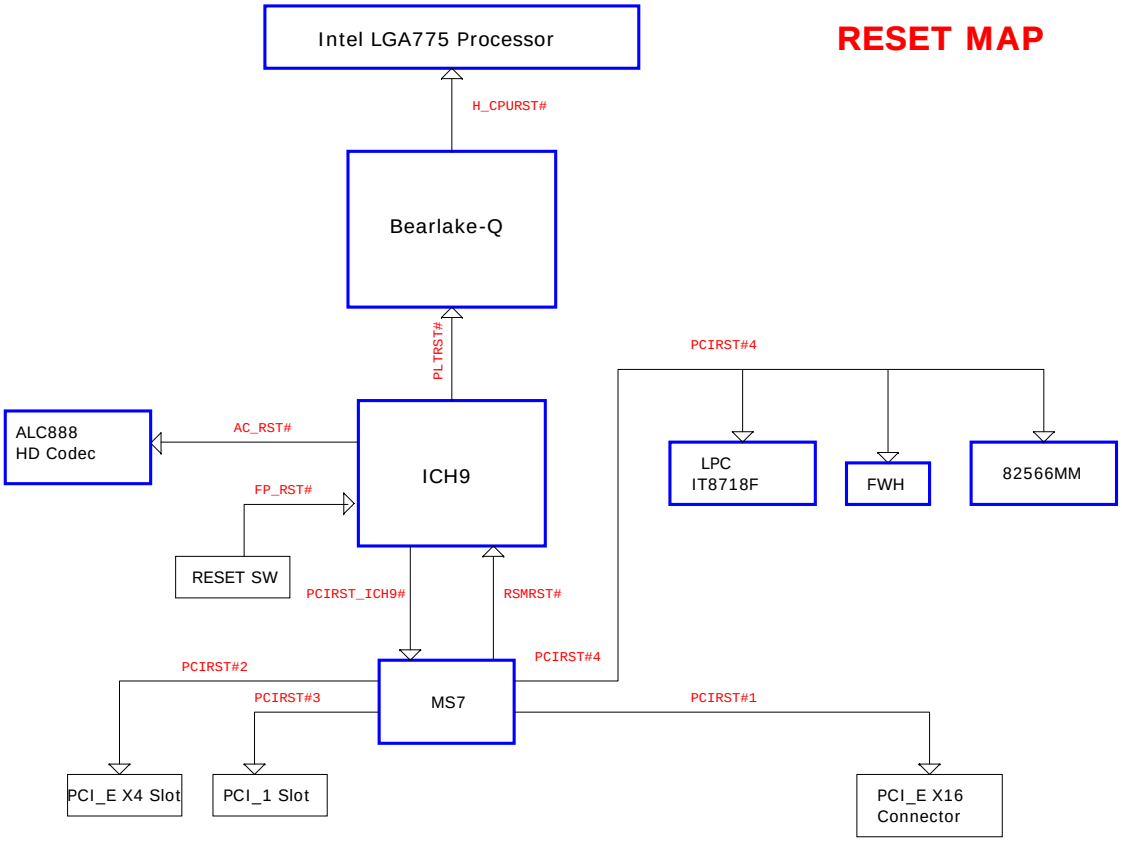
RESET MAP



MSI MICRO-START INT'L CO.,LTD.

Title: RESET MAP		
Size: Custom	Document Number: MS-7377 (BELEM) uBTX	Rev: 10
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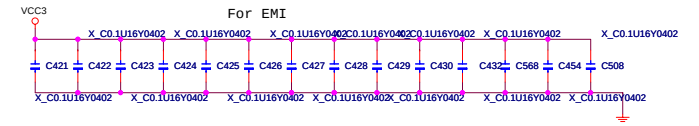
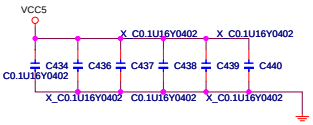
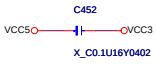
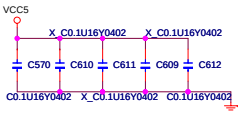
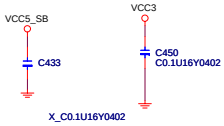
For EMI

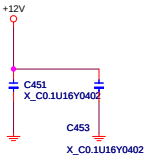




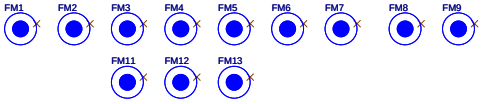




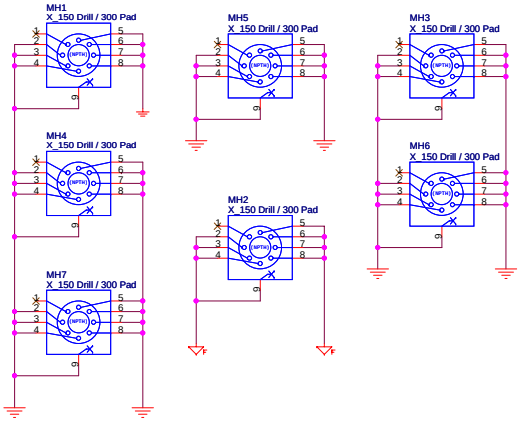




Optical Fiducial Marks



Mounting Holes



MSI Link to the Future **MICRO-START INT'L CO.,LTD.**

Title	FWH & HOOD Sense	
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Version 0B

2007/06/18
1.page 4. R31 & R38 change to 115Ohm
2.page 16. remove R447 , Add Q9
3.page 17. U6 pin9 & pin10(CPU_FAN) swap.
4.page 17. SOUTB R245 change to pull high.
5.page 18. Add R531 , remove R544.
6.page 22.R347 to 1KOhm, R350 to 2KOhm
7.page 22. C526 & C562 from 15P change to 10P.
8.page 22. R303 & R306 from 30 Ohm change to 10 Ohm

2007/06/20
1.page 23. EC31 from 1000uP change to 470u
2.page 23. Add EC17(470u) & EC106(SP Cap)
3.page 18. SATA connector color :SATA1 blue,SATA2 block,SATA3 orange,SATA4 block

2007/06/20
1.page 23. Q18 Q21 Q24 change to N-NTD4809NT4G_DPAK3-RH
2.page 23. Q19 Q20 Q22 Q23 Q25 Q26 change to N-P75N02LDG_TO252
3.VRM. R314 to 1KR, R315&316 to 750R,R320 to 16KR,C466 to 680pF,R322 to 390R

2007/06/20
1.DDR power . C539 to 2200pF, EC66 to 1800uF
2.NB power.C552 to 2200pF, EC70 & 71 to 1800uF, CT1 & CT2 to 1500uF

Version 10

2007/08/10
1.Change INTRUDER# from Super I/O to ICH9(pin G21). P.11
2.U27 Pin3 add 1N5817. P28
3.U27 Pin2 remover 1N5817. P28
4.R513 from 324 ohm to 300 ohm. P28
5.Add Lan Chipset Mylar Tab. P.30
6.Remove R164 for GPIO33 function. P11
7.Remove R240 for SIO_PME# function. P17

2007/08/12 CPU side power change List (VRM)
1.Remove EC1. P3
2.change R324 from 100 ohm to 51 ohm. P23
3.change EC38 EC39 EC40 EC41 EC42 EC43 EC44 EC45 EC46 EC47 EC48 EC49 from 10uF to 22uF. P23.
4.Change R313 R317 R331 from 5.49Kohm to 4.3Kohm. P23.
5.change R314 from 1KOhm to 931Ohm. P23.
6.change R338 from 42.2KOhm to 31.6KOhm. P23.
7.change R340 from 120KOhm to 100KOhm. P23.
8.Add EC32. P23.

Version 11

2007/09/20
1.Add R132 & R135 for ICH9 PCIE-X4 function. P11

MSI MICRO-START INT'L CO.,LTD.

Title: History		
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