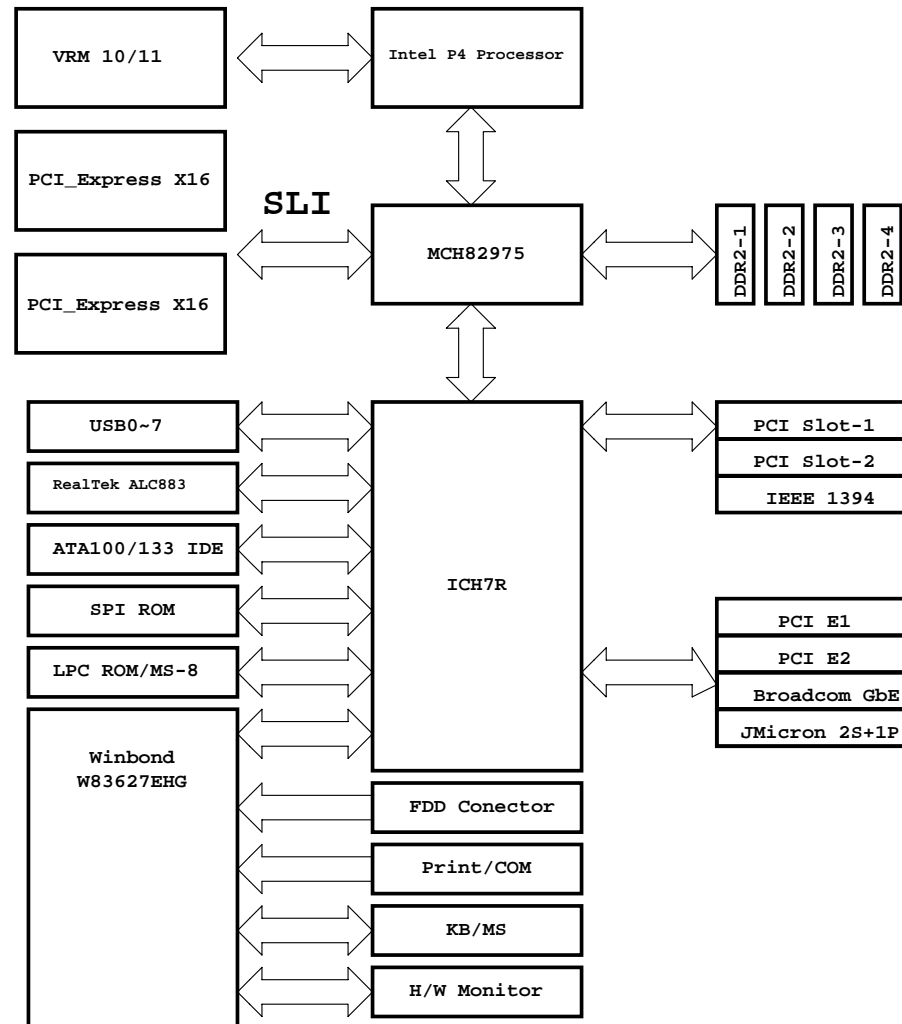


MS-7246 Version: 10



001-System Block Diagram

002-Power Delivery

003-VRD11 RT8802A 4Phase

004-Clock Generator & Fan

005-Intel LGA775 - Signals

006-Intel LGA775 - Power

007-Intel LGA775 - GND

008-MCH82975 CPU & PCIE Signal

009-MCH82975 Memory Signal

010-MCH82975 Misc & Power Signal

011-DDR II DIMM 1 & 2

012-DDR II DIMM 3 & 4

013-DDR II Termination & MS-6+

014-PEG Switch

015-PEGX16-1

016-PEGX16-2

017-ICH7 - PCI, DMI, CPU, IRQ

018- ICH7 - LPC, ATA, USB, GPIO

019-ICH7 - POWER & GND

020-RealTek ALC883 Audio

021-PCI Slot 1 & 2 & 3

022-1394 VIA VT-6306

023-BCM5751 GbE LAN

024-JMicron 361/363

025- FWH SIO W83627EHG

026-MS-7 ACPI Controller

027-MS-8 & FirmwareHub

028-ATXPOWER & USB

029-Auto BOM manual

030-History



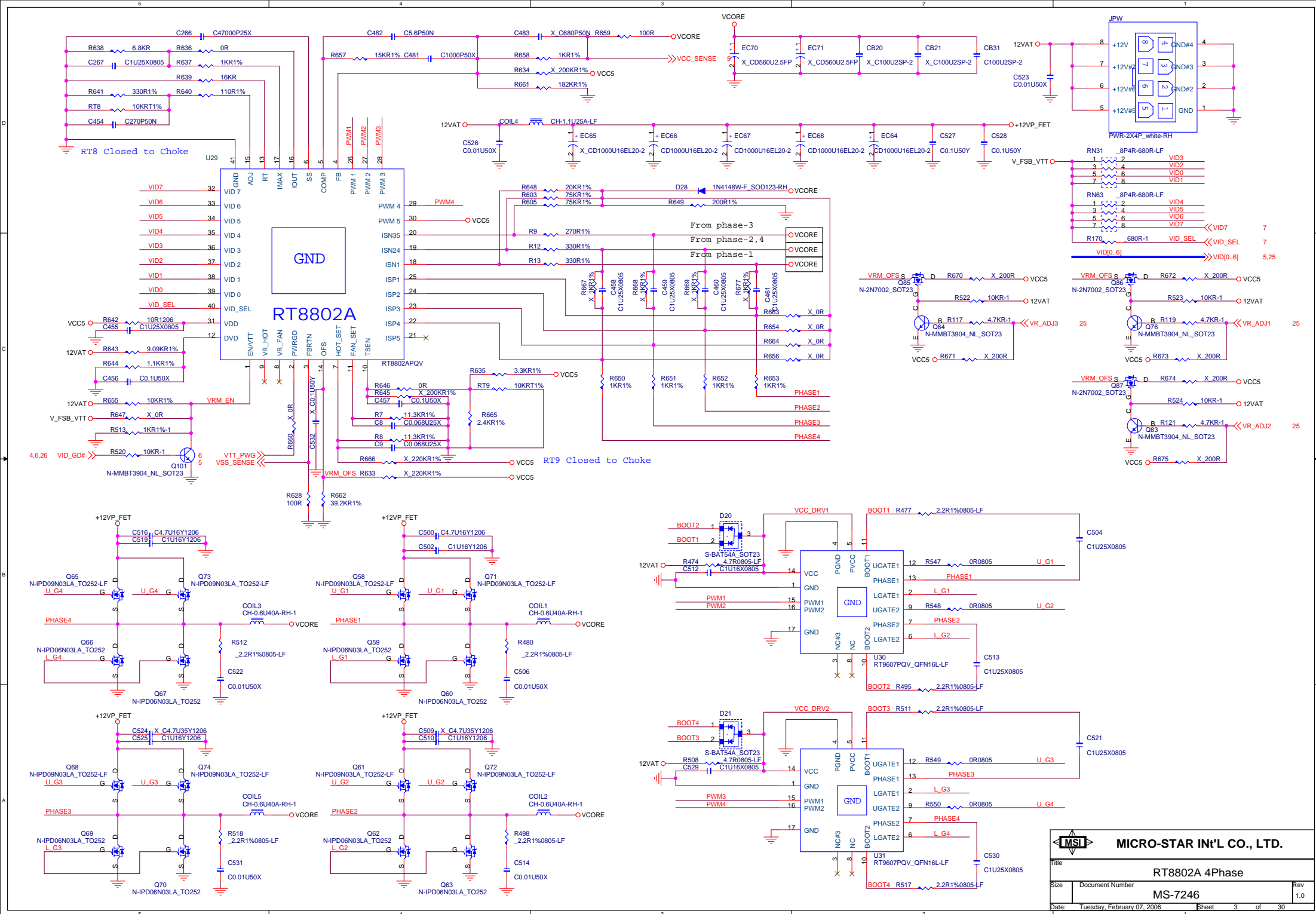
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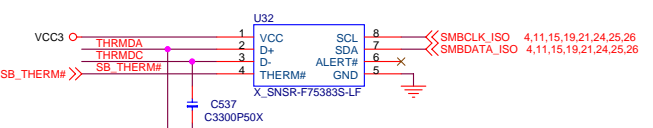
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Size	Document Number	MS-7246	Rev 1.0
Date:	Monday, December 19, 2005	Sheet 1	of 30




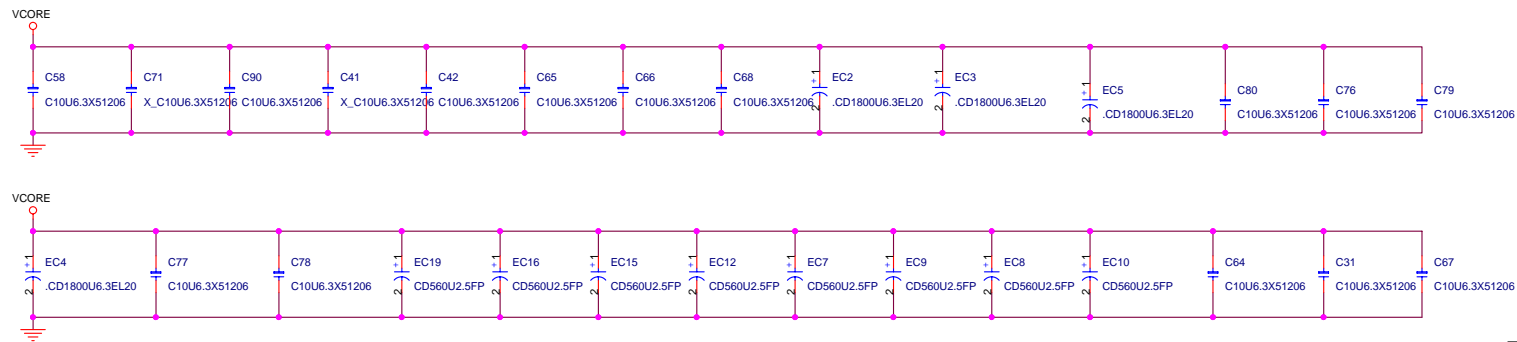
MICRO-STAR INT'L CO., LTD.

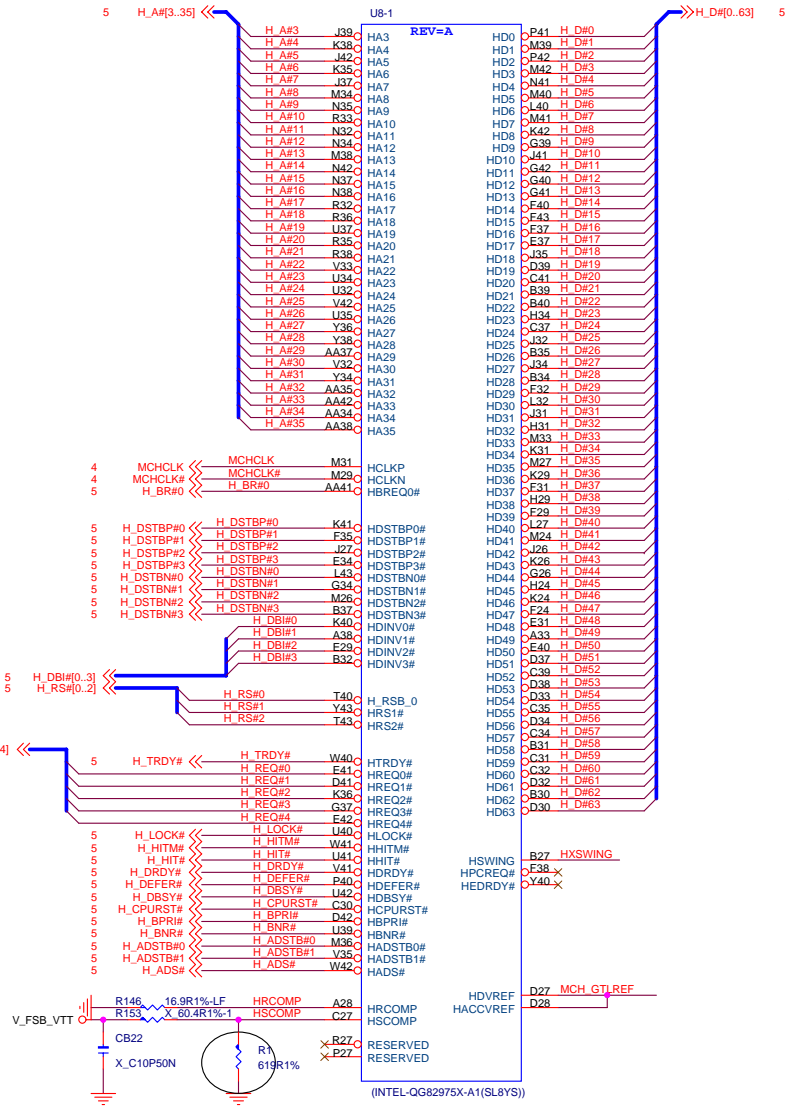
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Size	Document Number				Rev
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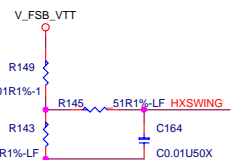
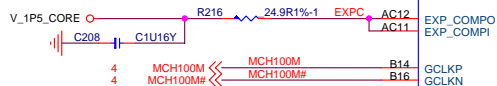
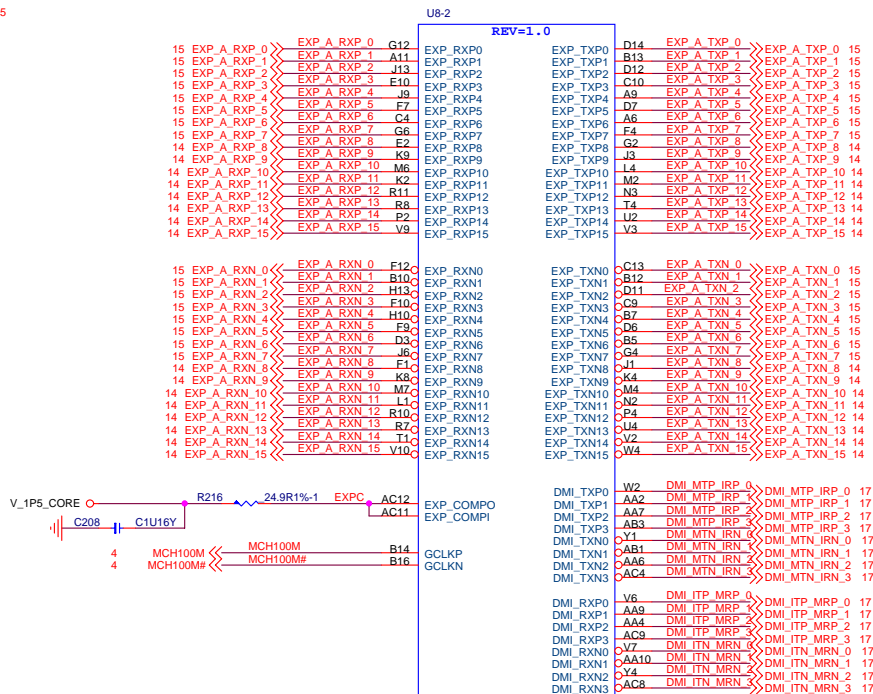


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Intel LGA775 - Signals			
Size	Document Number		Rev
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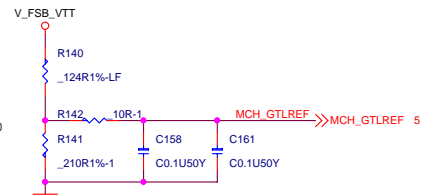


For Glenwood-DG



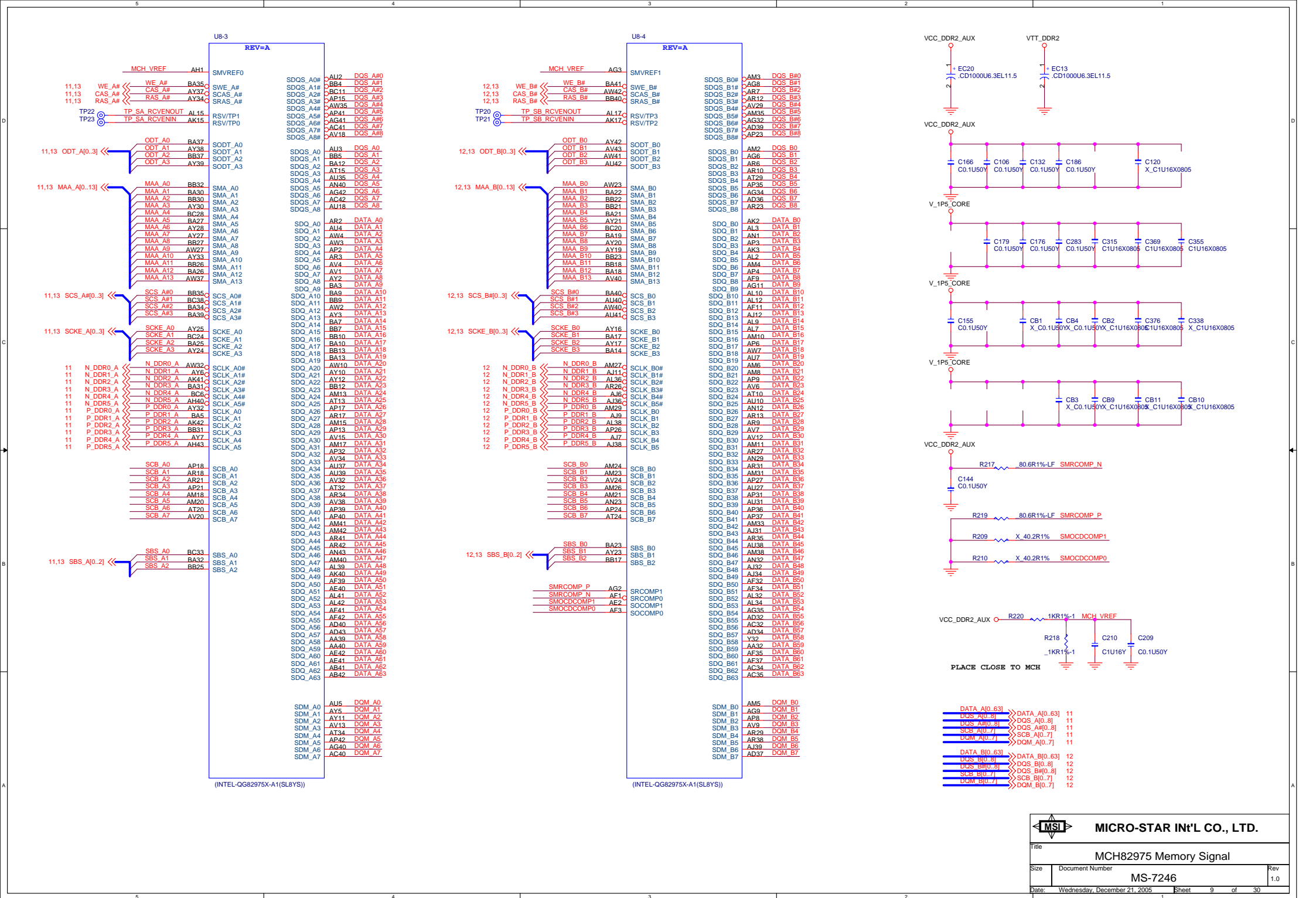
HD_SWING VOLTAGE *12 MIL TRACE WIDTH, 10 MIL TRACE SPACEING*
HD_SWING S/B 1/4*VTT +/- 2%

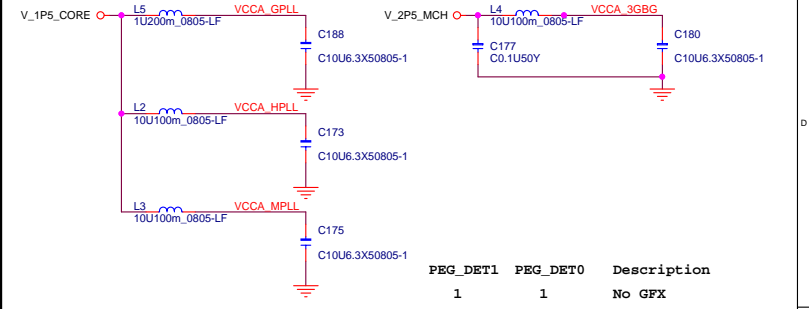
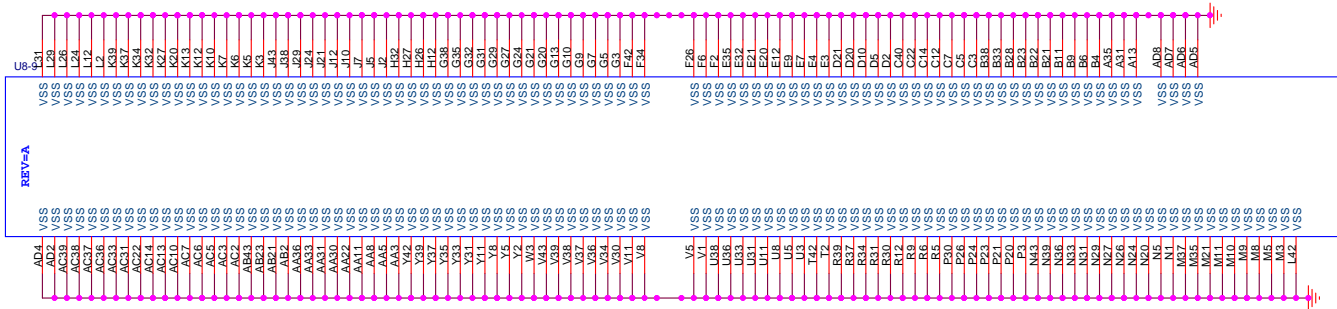
PLACE DIVIDER RESISTOR NEAR VTT



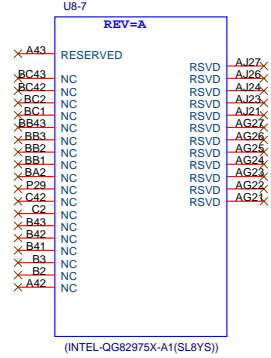
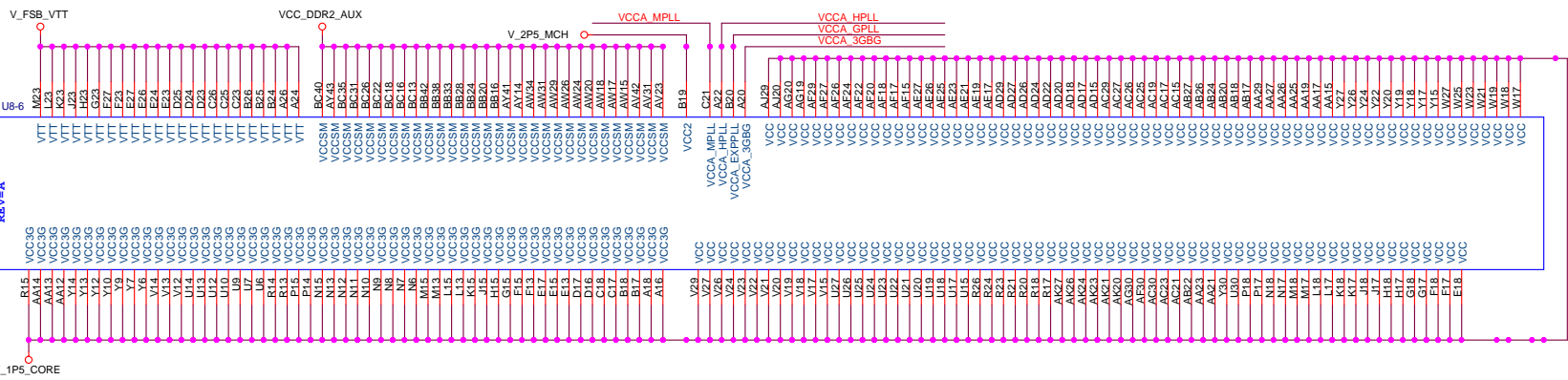
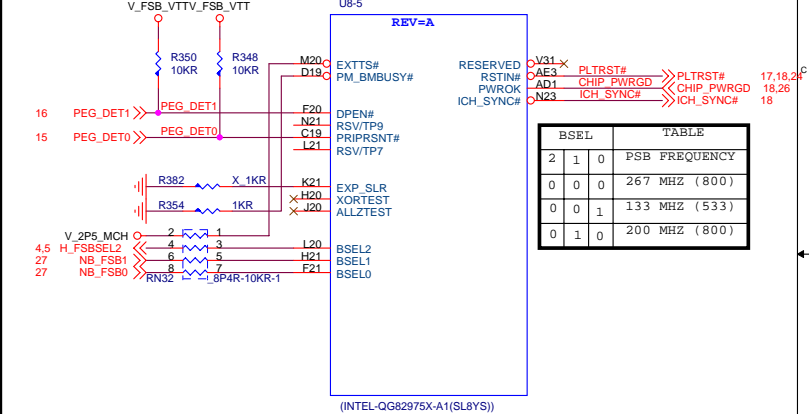
MICRO-STAR INT'L CO., LTD.


Title			MCH82975 CPU & PCIE Signal		
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PEG_DET1	PEG_DET0	Description
1	1	No GFX
1	0	Pri-GFX
0	1	N/A
0	0	Sec-GFX

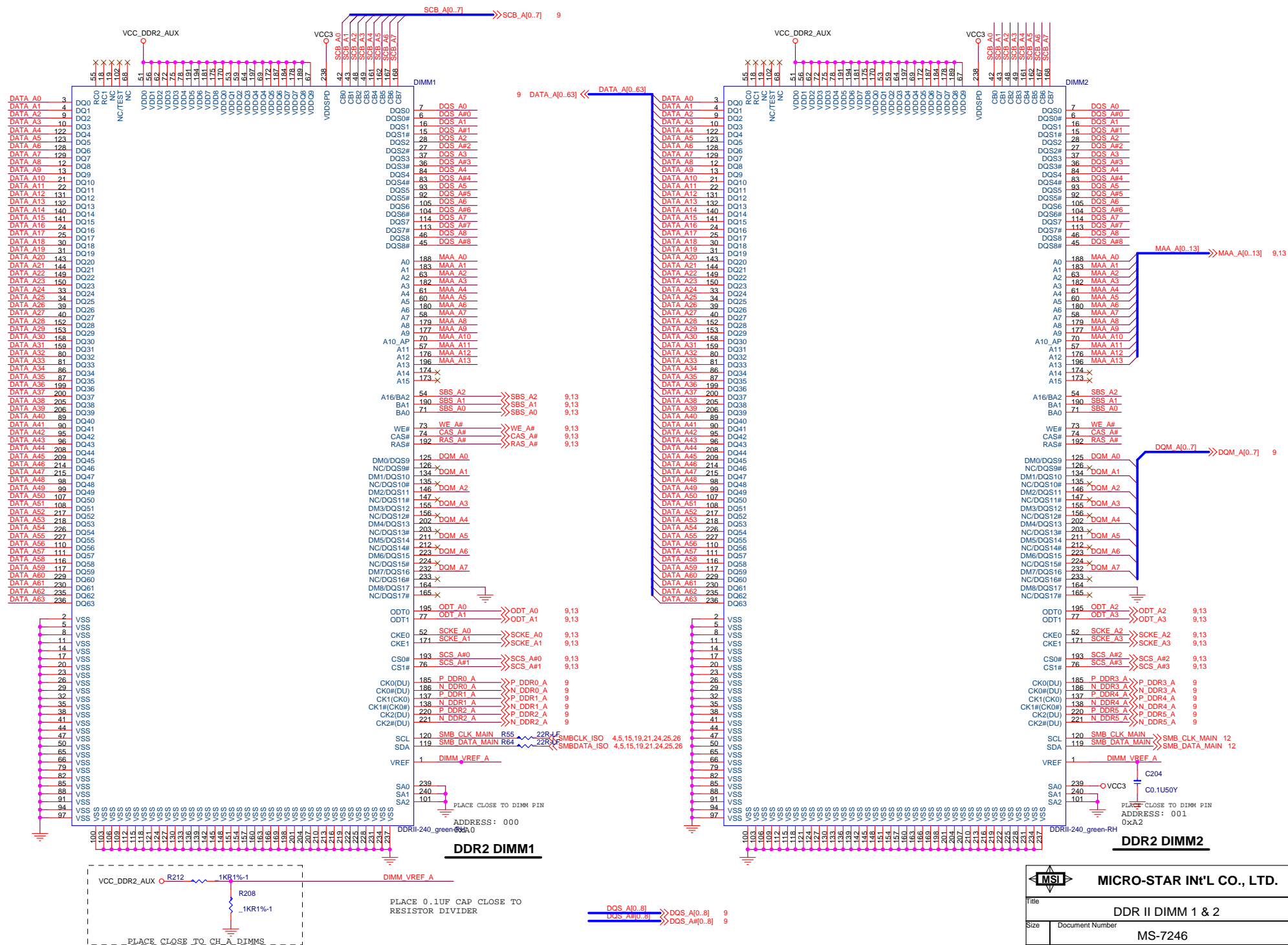


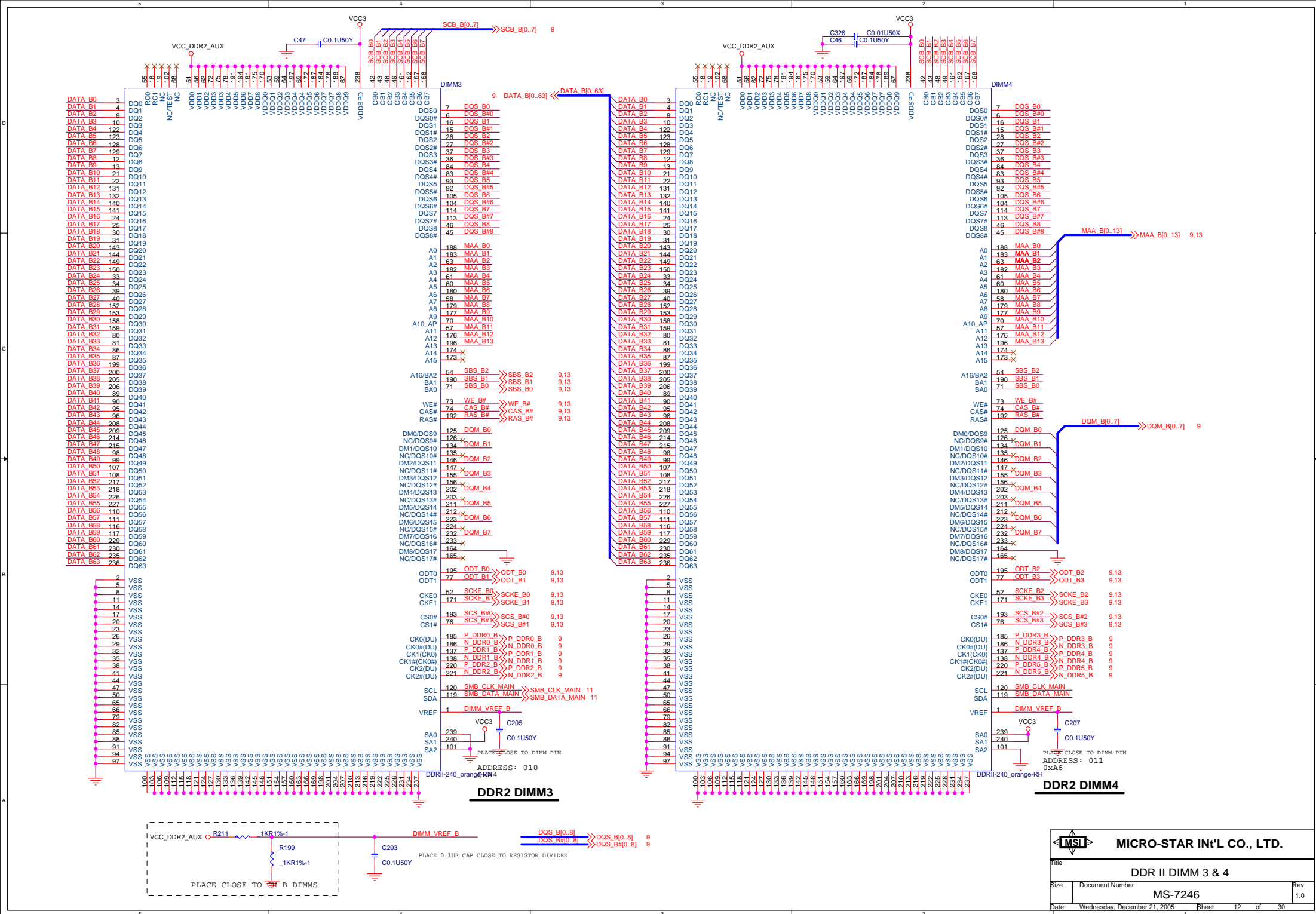
**MICRO-STAR INT'L CO., LTD.**

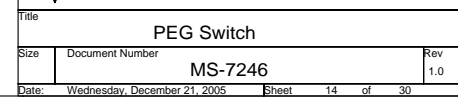
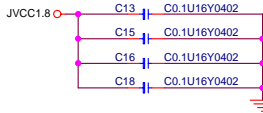
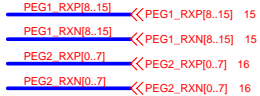
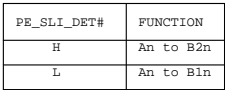
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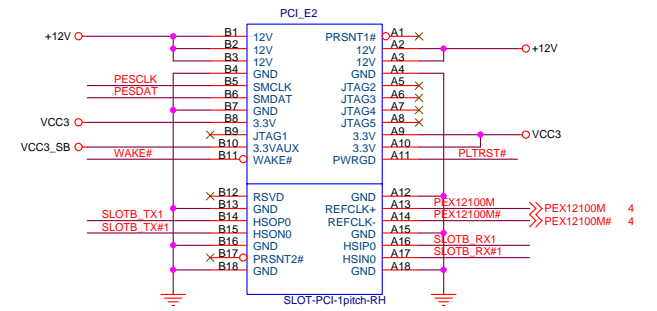
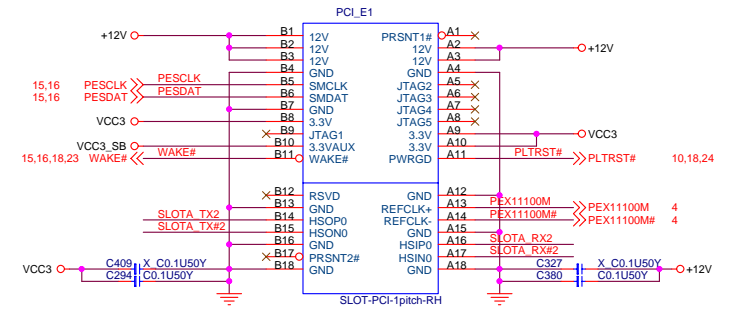
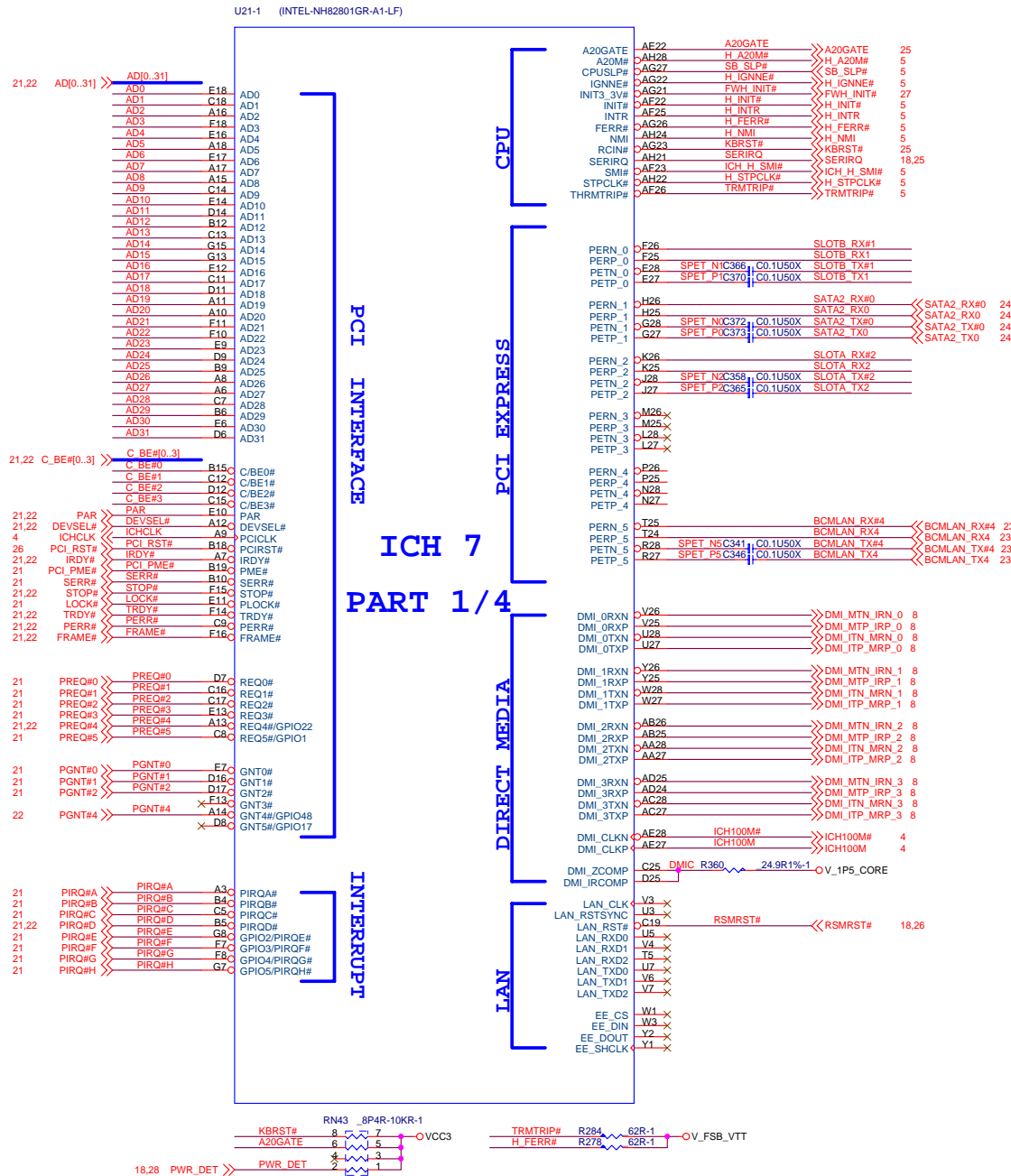
SizeDocument NumberMS-7246Rev1.0

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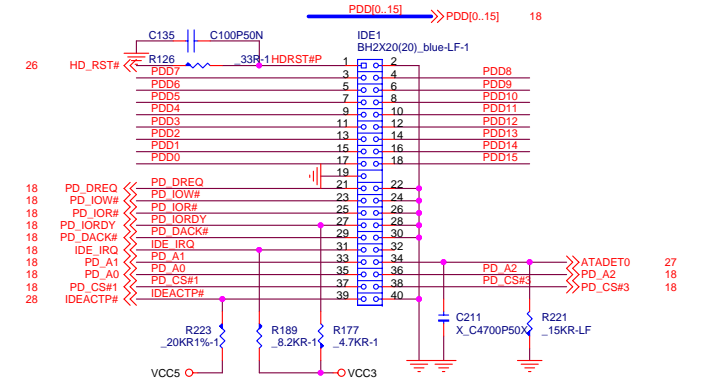






PCI EXPRESS 1-PORT

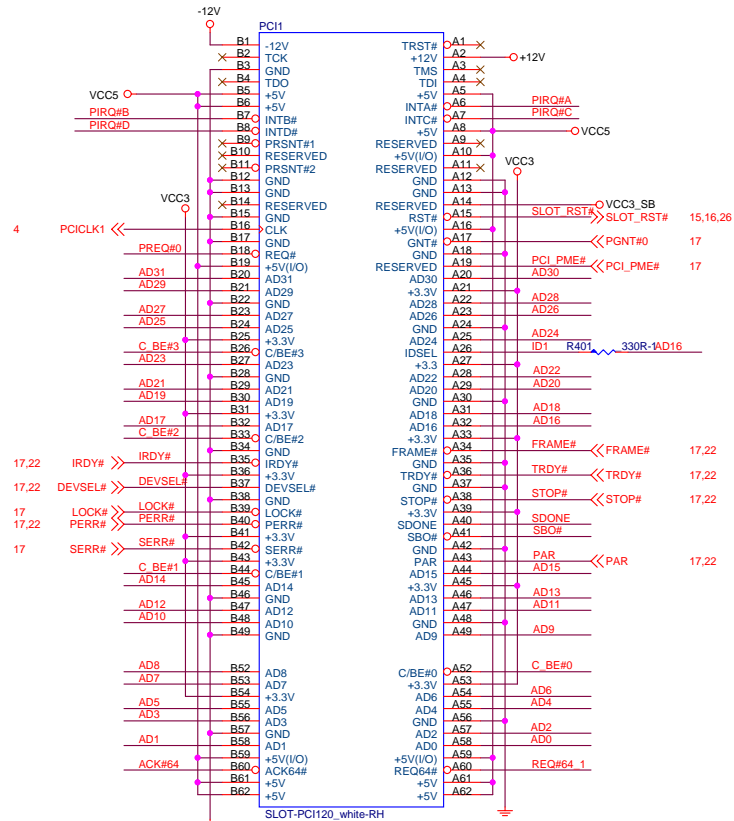
ATA 33/66/100 IDE Connectors



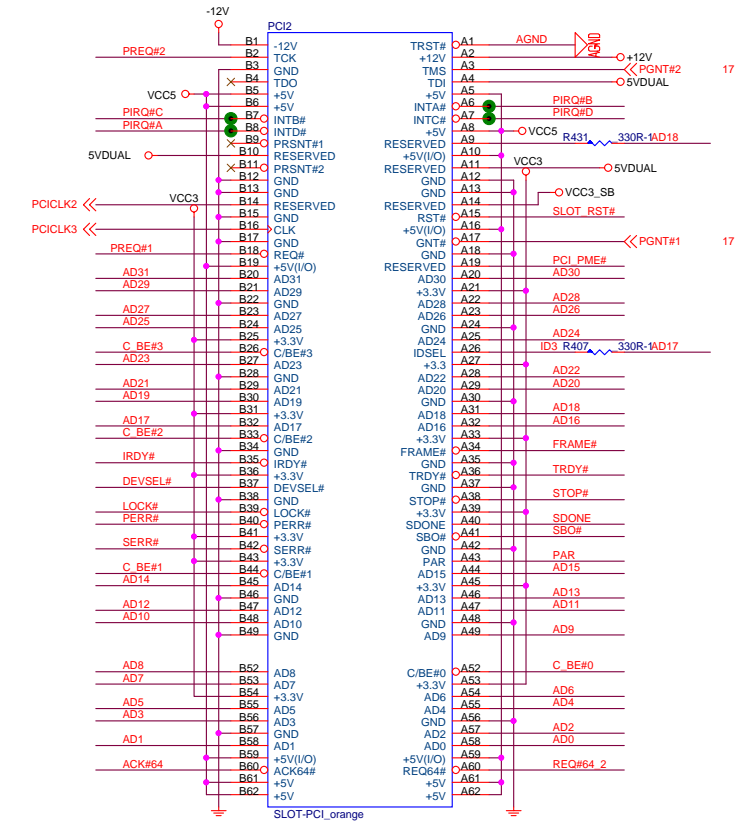
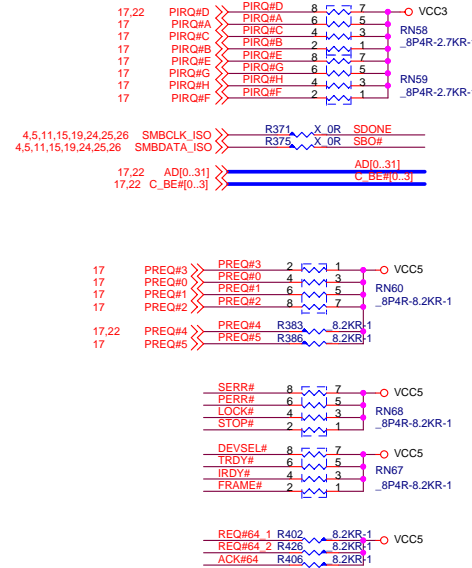
PCI SLOT 1 (PCI VER: 2.2 COMPLY)

PCI PULL-UP / DOWN RESISTORS

PCI SLOT 2 (PCI VER: 2.2 COMPLY)

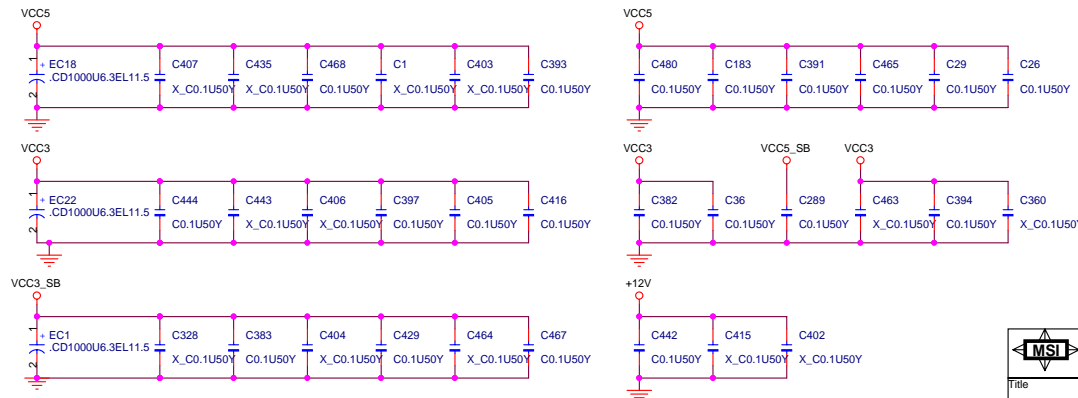


IDSEL = AD16
MASTER = PREQ#1
PIRQ#A



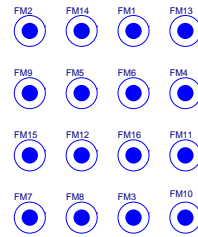
IDSEL = AD17 IDSEL = AD18
MASTER = PREQ#1 MASTER = PREQ#2
PIRQ#B

PCI SLOT DECOUPLING CAPACITORS

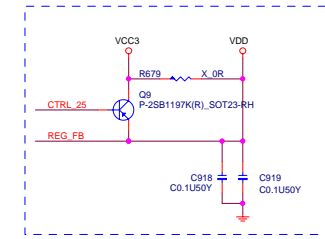
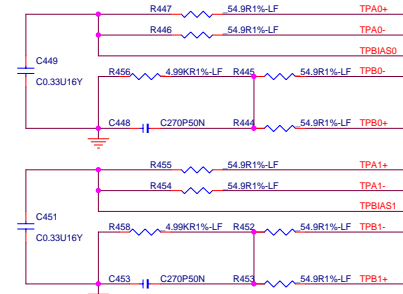
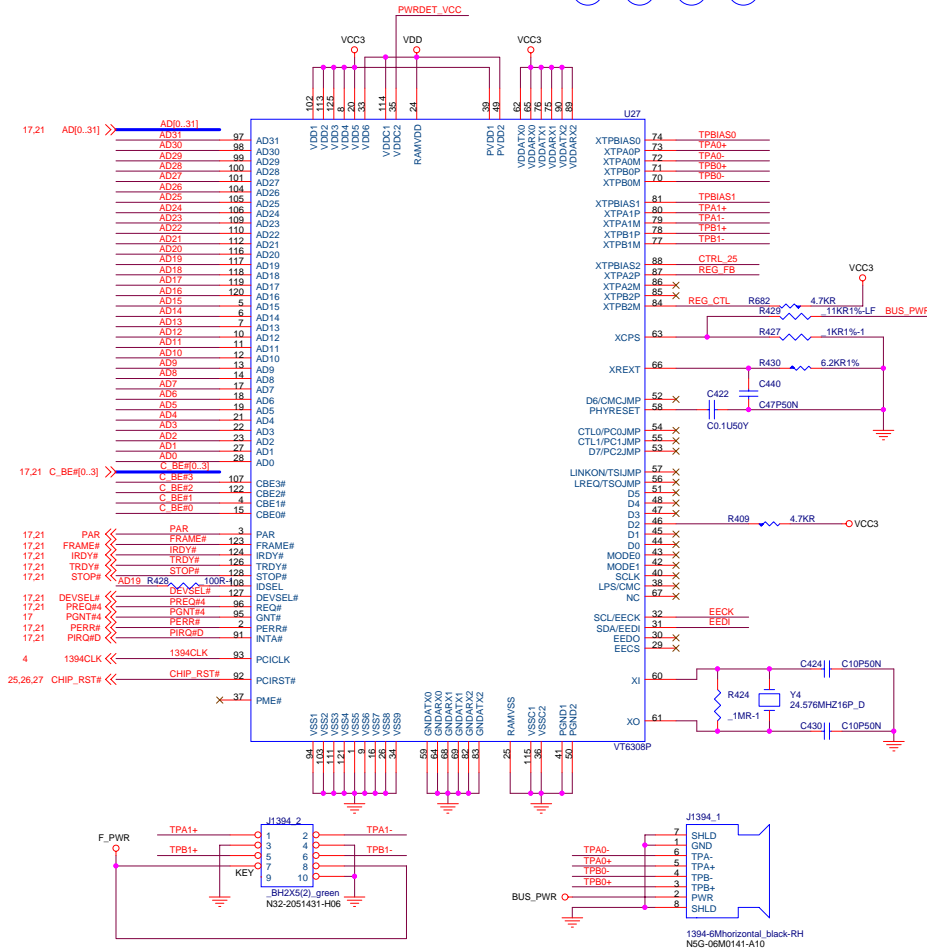
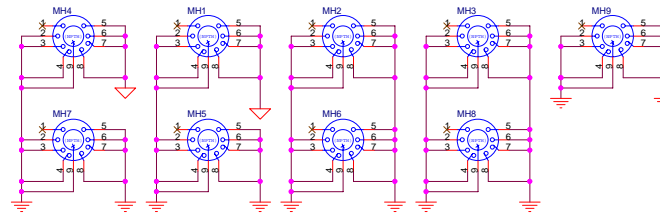


MICRO-STAR INT'L CO., LTD.		
Title PCI Slot 1 & 2		
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Optics Orientation Holes

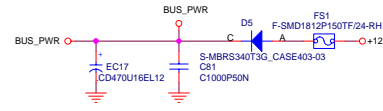
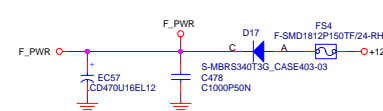


Mounting Holes

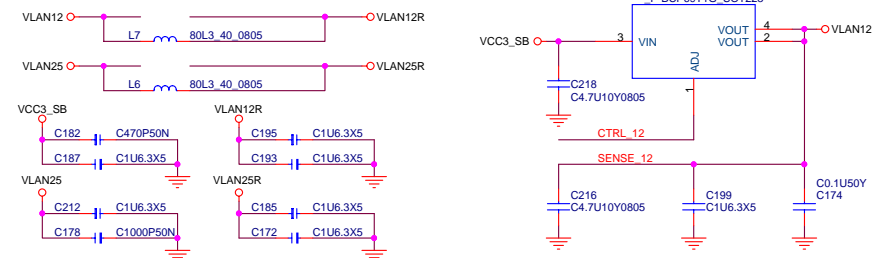
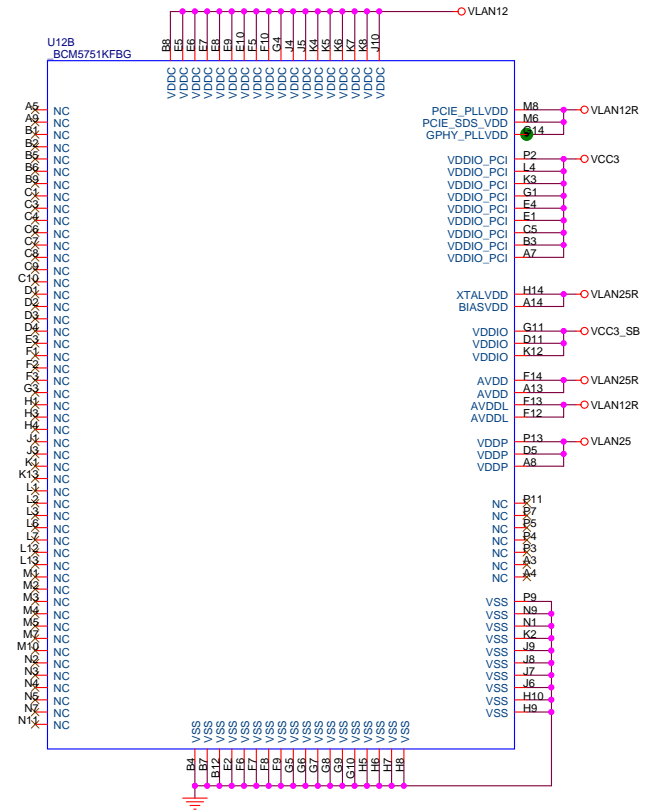
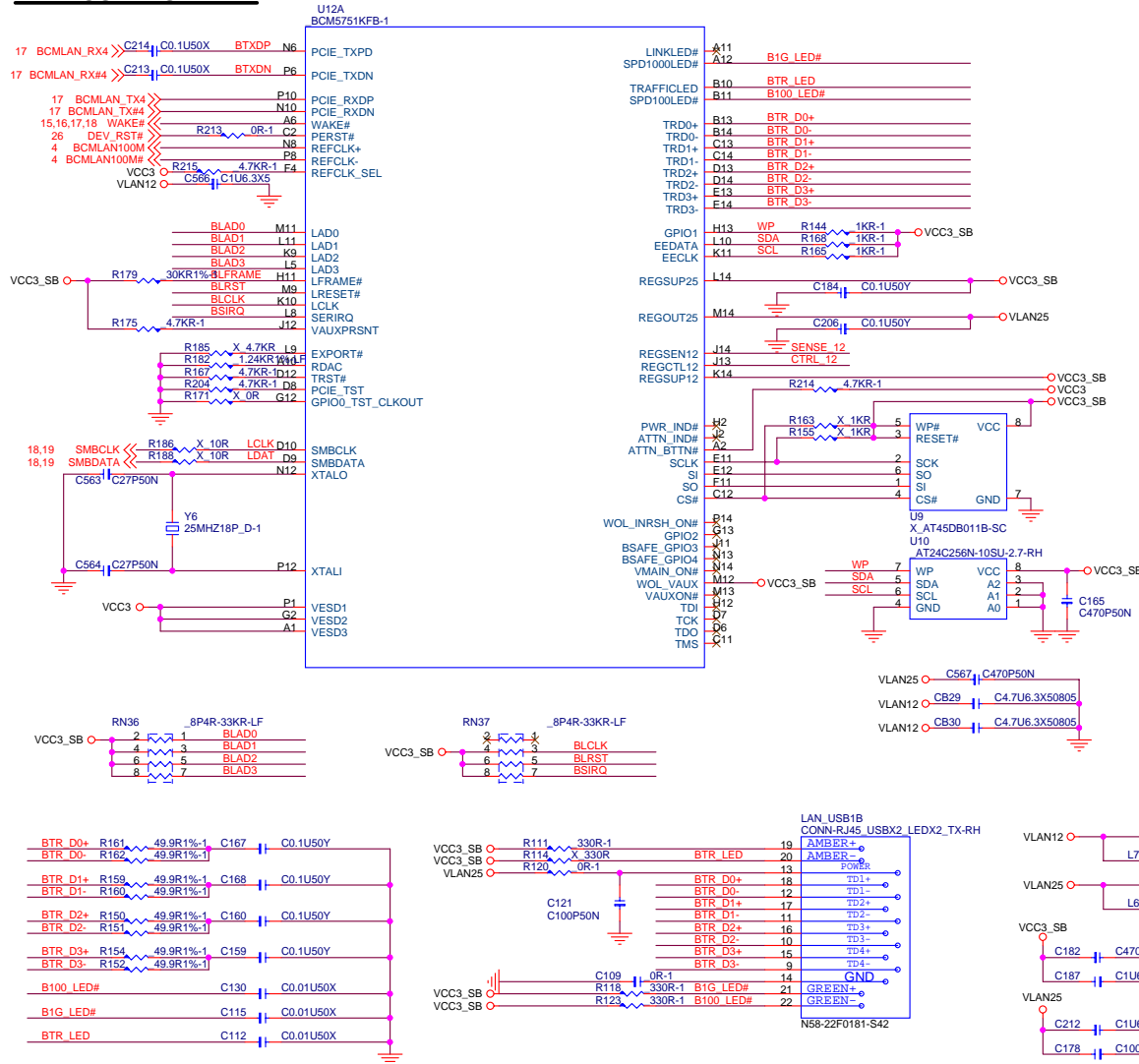


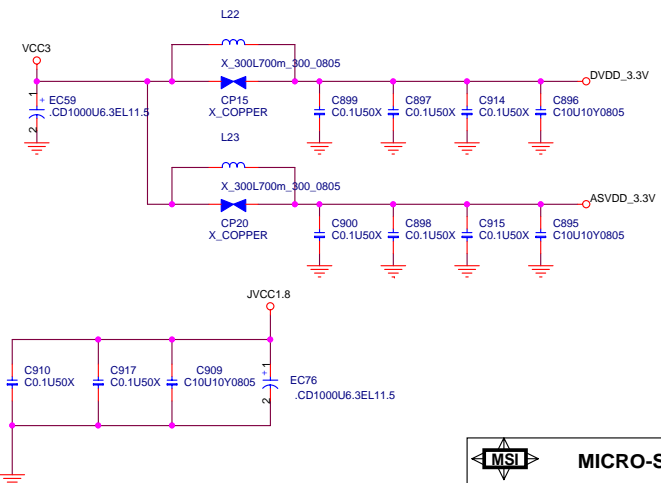
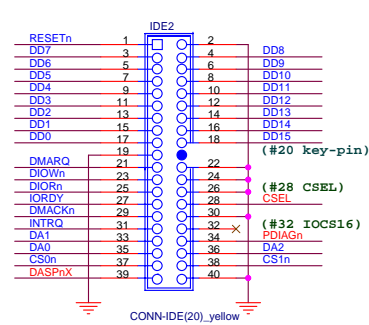
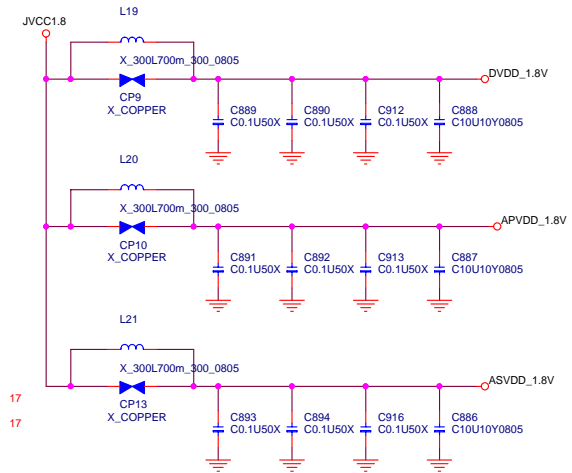
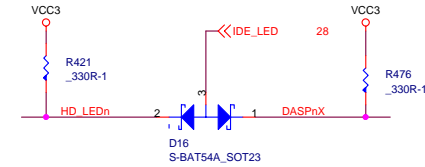
1394 CHIP	PWRDET_VCC	REG_CTL	VDD POWER
VT6307	R681	X	R679
VT6308P	R680	R682	Q9

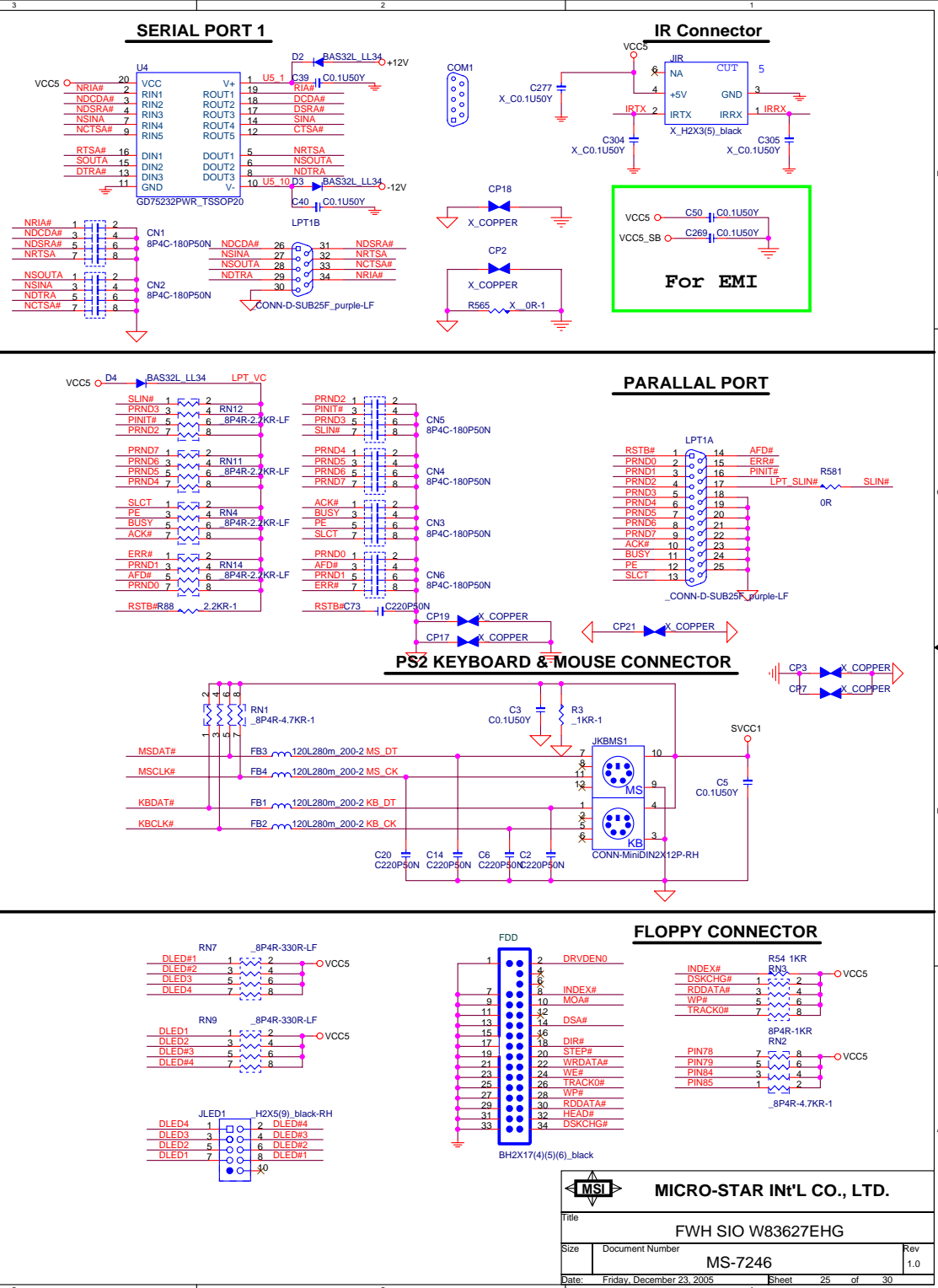
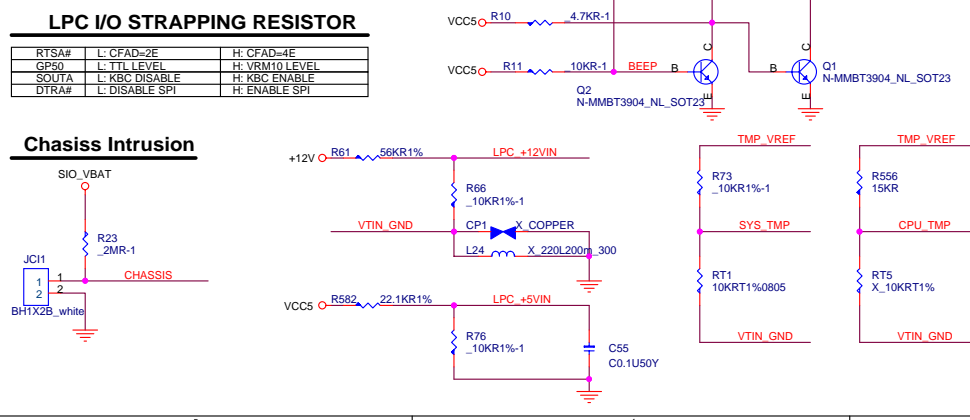
POWER Pin		
Pin	VT6307	VT6308P
84	NC	REG_CTL
87	NC	REG_FB
88	NC	CTRL_25
35	VCC	PWRDET_VCC
39	PVD	VCC
49	PVD	VDD
24	VCC	VDD
114	VCC	VDD
33	VCC	VDD



LAN CONTROLLER







[illegible]

default is high

RN35 8P4R-1KR-1

BIOS WP# 1 2

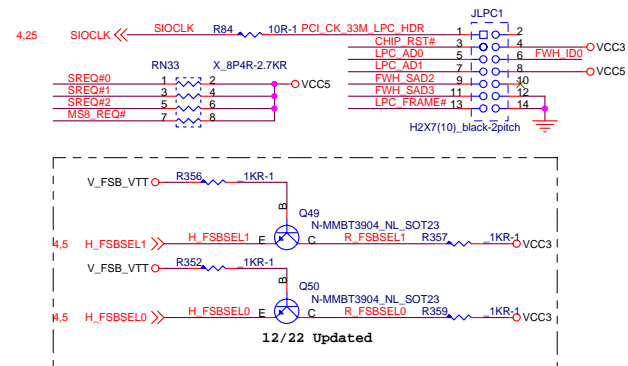
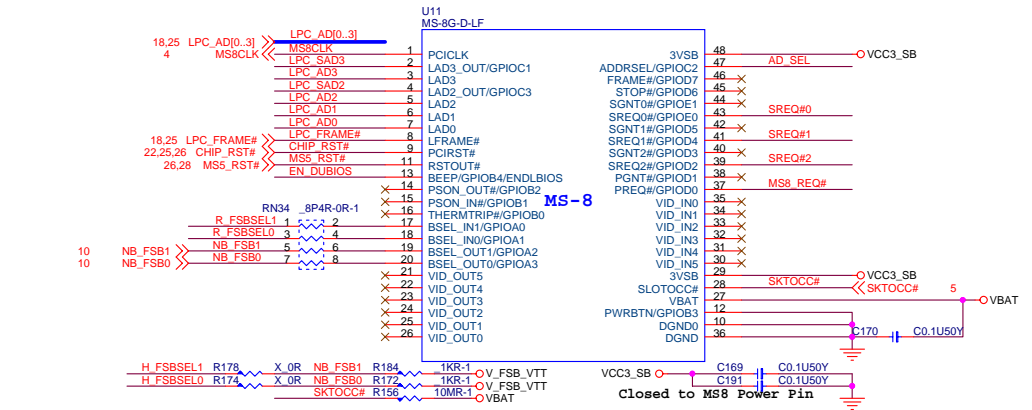
PRES2 3 4

PRES3 5 6

PRES4 7 8

VCC3

Ground



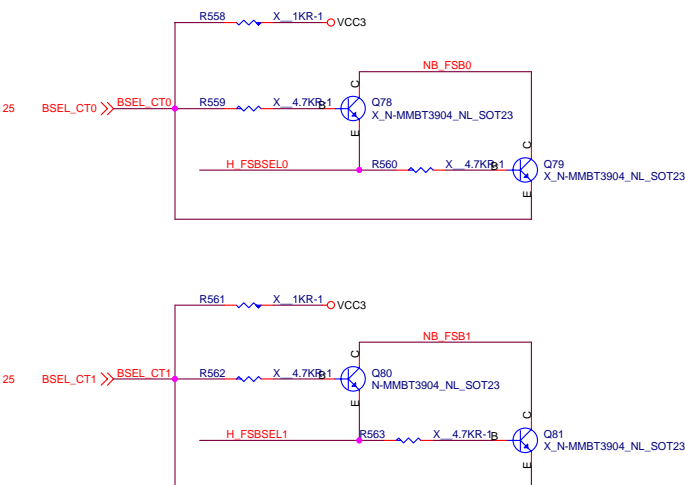
EN_DUBIOS: High is Enable
EN_DUBIOS: Low is Disable

LPC SAD3 R194 0R-1 FWH SAD3
LPC AD3 R192 X 1KR
LPC SAD2 R193 0R-1 FWH SAD2
LPC AD2 R191 X 0R

Safe BIOS Function

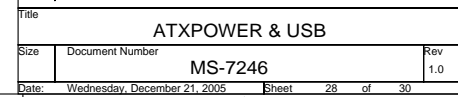
AD_SEL R180 X 1KR
R176 1KR-1

MS8 Address High is 4E/4F
MS8 Address Low is 2E/2F



H_FSBSEL0	H_FSBSEL1	BSEL_CT0	BSEL_CT1	NB_FSB0	NB_FSB1	BS_Change
0	0	0	0	1	1	133Mhz
0	1	0	0	1	0	
1	0	0	0	0	1	200Mhz
1	1	0	0	0	0	266Mhz
0	0	0	1	1	0	
0	1	0	1	1	1	133Mhz
1	0	0	1	0	0	266Mhz
1	1	0	1	0	1	200Mhz
0	0	1	0	0	1	200Mhz
0	1	1	0	0	0	266Mhz
1	0	1	0	1	1	133Mhz
1	1	1	0	1	0	
0	0	1	1	0	0	266Mhz
0	1	1	1	0	1	200Mhz
1	0	1	1	1	0	
1	1	1	1	1	1	133Mhz

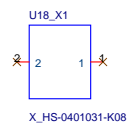
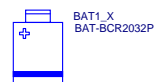
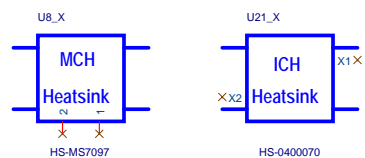
NB_FSB0	NB_FSB1	NB_FSB_OUT
0	0	266Mhz
0	1	200Mhz
1	1	133Mhz

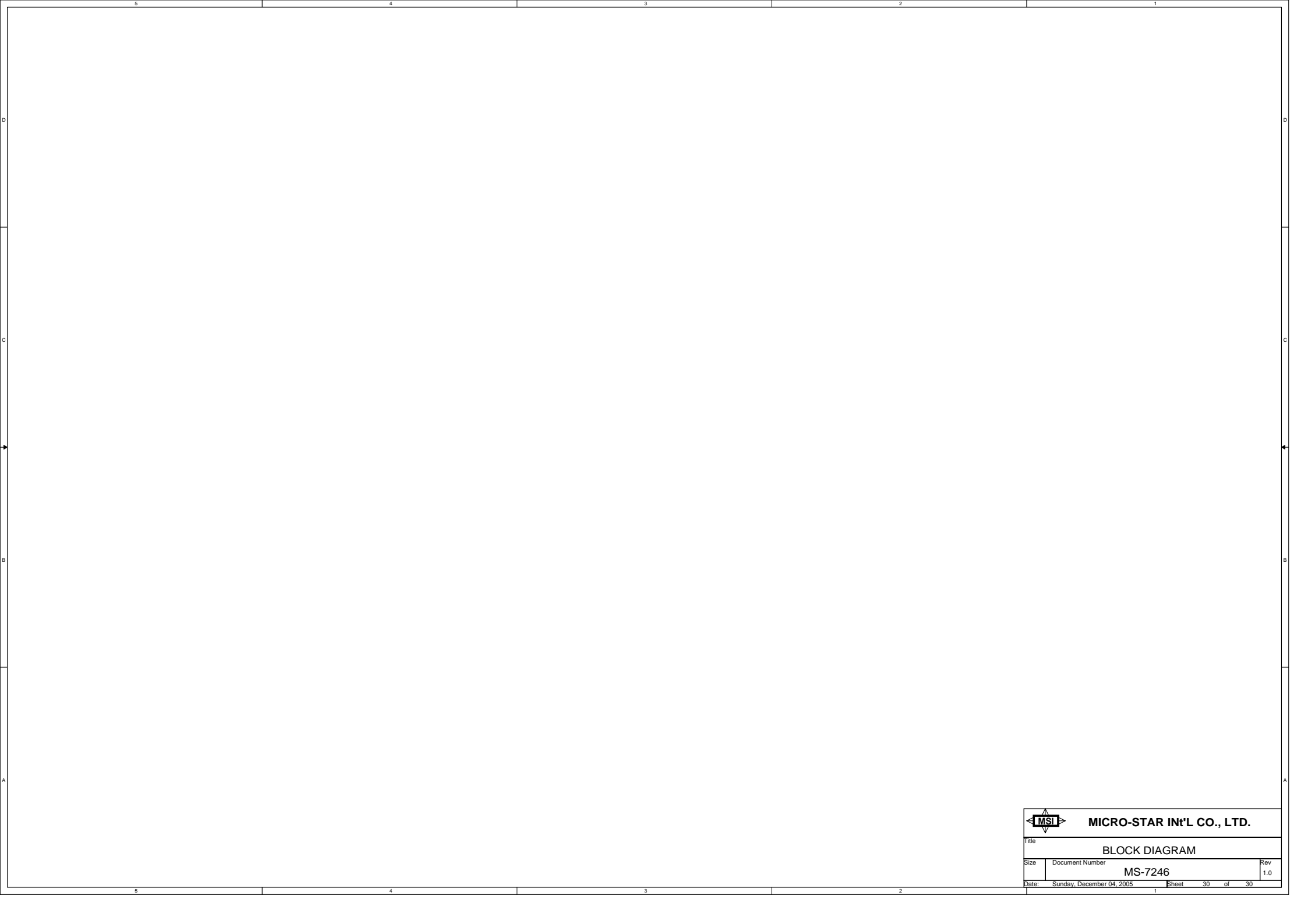


Auto-BOM Manual Parts

MANUAL PART

HEAT SINK





MICRO-STAR INT'L CO., LTD.

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