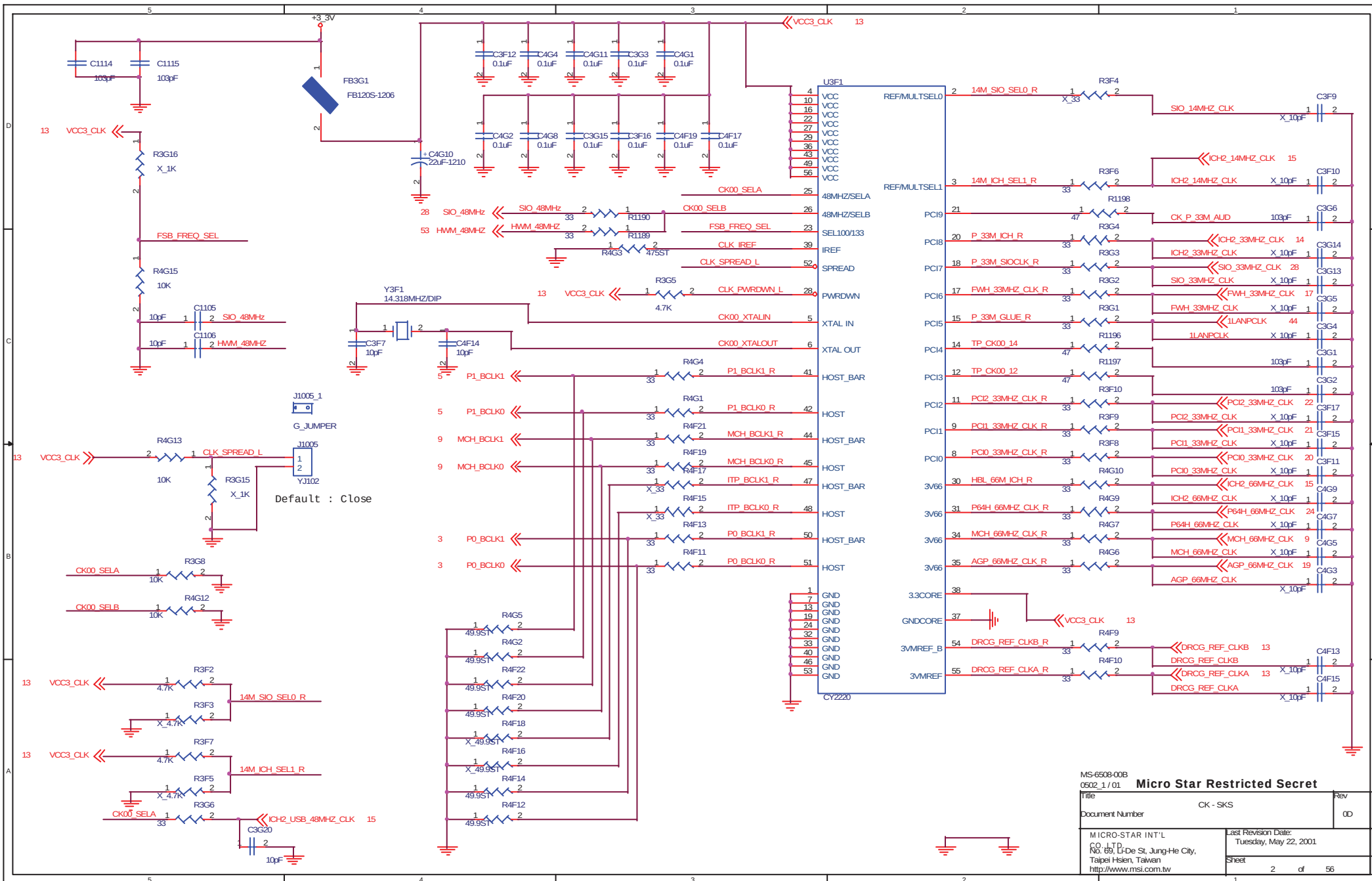
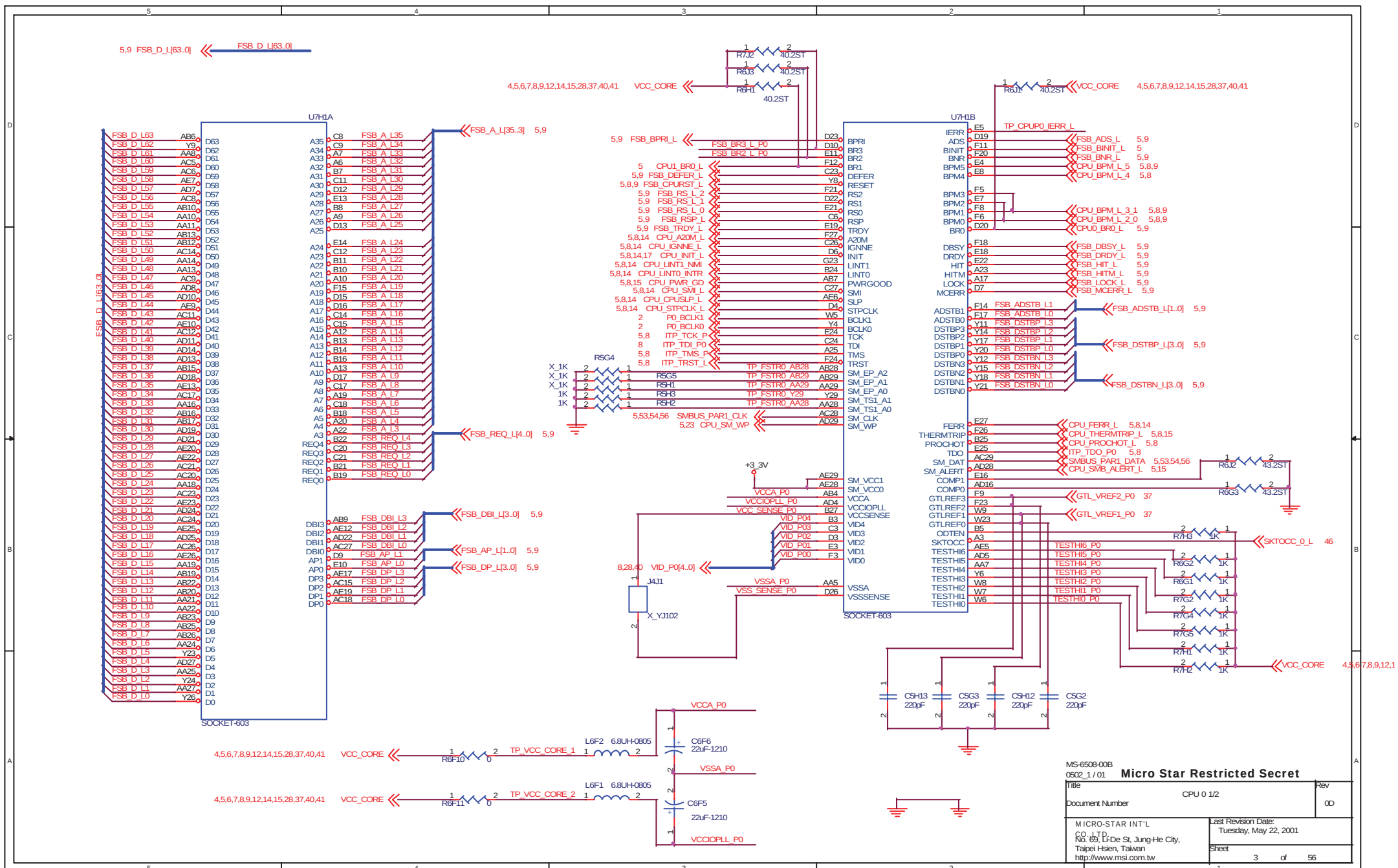


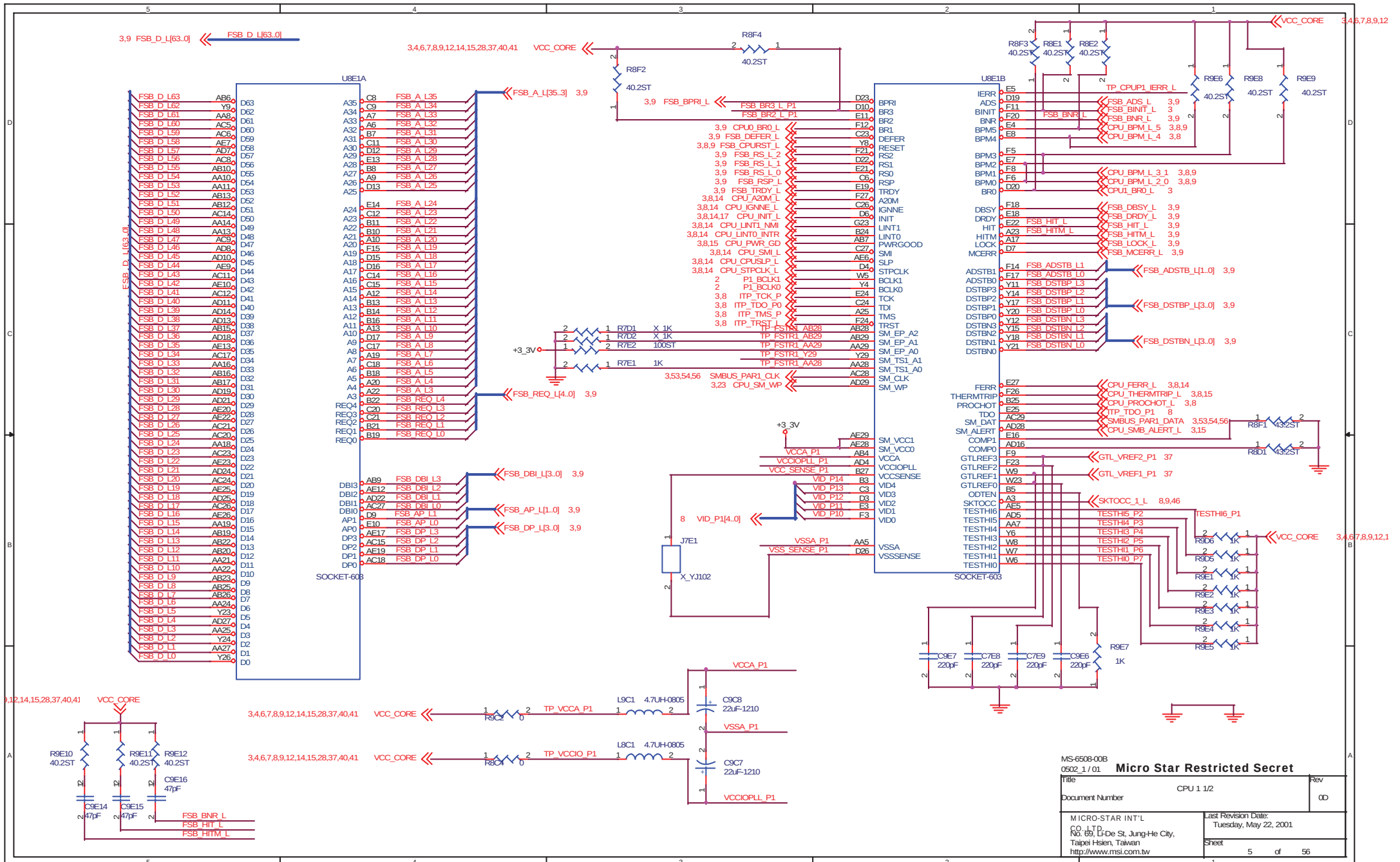
INDEX

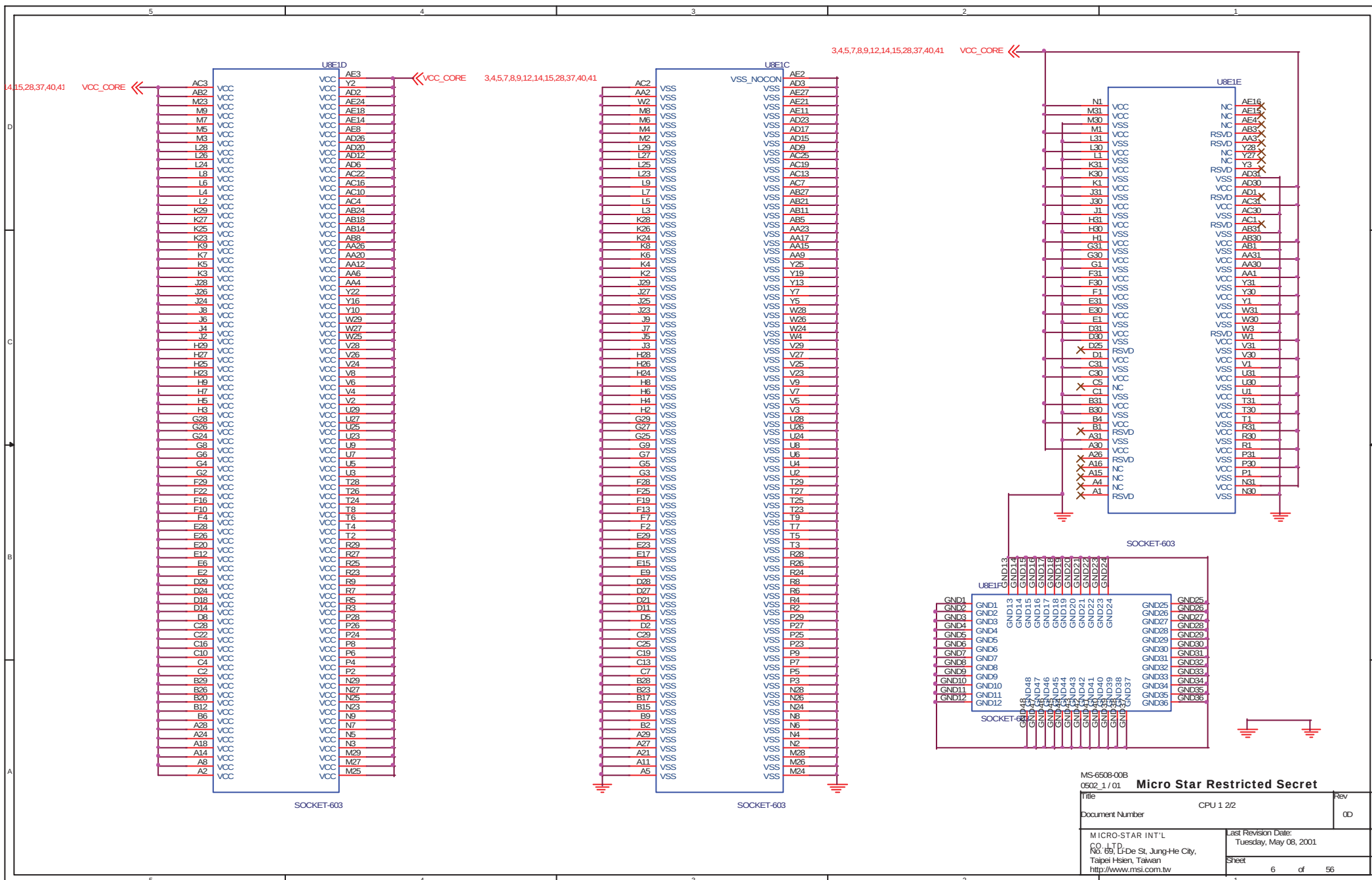
01 ---> This Page	29 ---> IDE Connector
02 ---> Clock GEN.	30 ---> KB/MS Connector
03 ---> CPU 0 1/2	31 ---> COM1 & COM2 Connector
04 ---> CPU 0 2/2	32 ---> Printer Port Connector
05 ---> CPU 1 1/2	33 ---> USB Connector
06 ---> CPU 1 2/2	34 ---> SB power for USB & Keyboard
07 ---> CAP for P0 & P1	35 ---> Audio CODAC ADI1885
08 ---> CPU VID Compare	36 ---> Speaker out & Audio Jack
09 ---> MCH 1/4	37 ---> V REF. _1
10 ---> MCH 2/4	38 ---> V REF. _2
11 ---> MCH 3/4	39 ---> Power Connector
12 ---> MCH 4/4	40 ---> PWM _1
13 ---> DRCG	41 ---> PWM _2
14 ---> ICH2 1/2	42 ---> Regulator
15 ---> ICH2 2/2	43 ---> MSI Front Panel
16 ---> CAP. for ICH2, Battery	44 ---> LAN 82550 1/2
17 ---> FWH	45 ---> LAN 82550 2/2
18 ---> MECC	46 ---> AOLII
19 ---> AGP Pro	47 ---> SCSI 1/5 7899W_1
20 ---> PCI1	48 ---> SCSI 2/5 7899W_2
21 ---> PCI2	49 ---> SCSI 3/5 Channel 1
22 ---> PCI3	50 ---> SCSI 4/5 Channel 2
23 ---> PCI 33 TERMINATION	51 ---> SCSI 5/5 Misc.
24 ---> P64H	52 ---> LPC Hardware Monitor
25 ---> PCI64_1	53 ---> Hardware Monitor (W83782D)
26 ---> PCI64_2	54 ---> IBM_1
27 ---> PCI 66 TERMINATION	55 ---> IBM_2
28 ---> LPC SIO & FDD Conn.	56 ---> MTG Hole

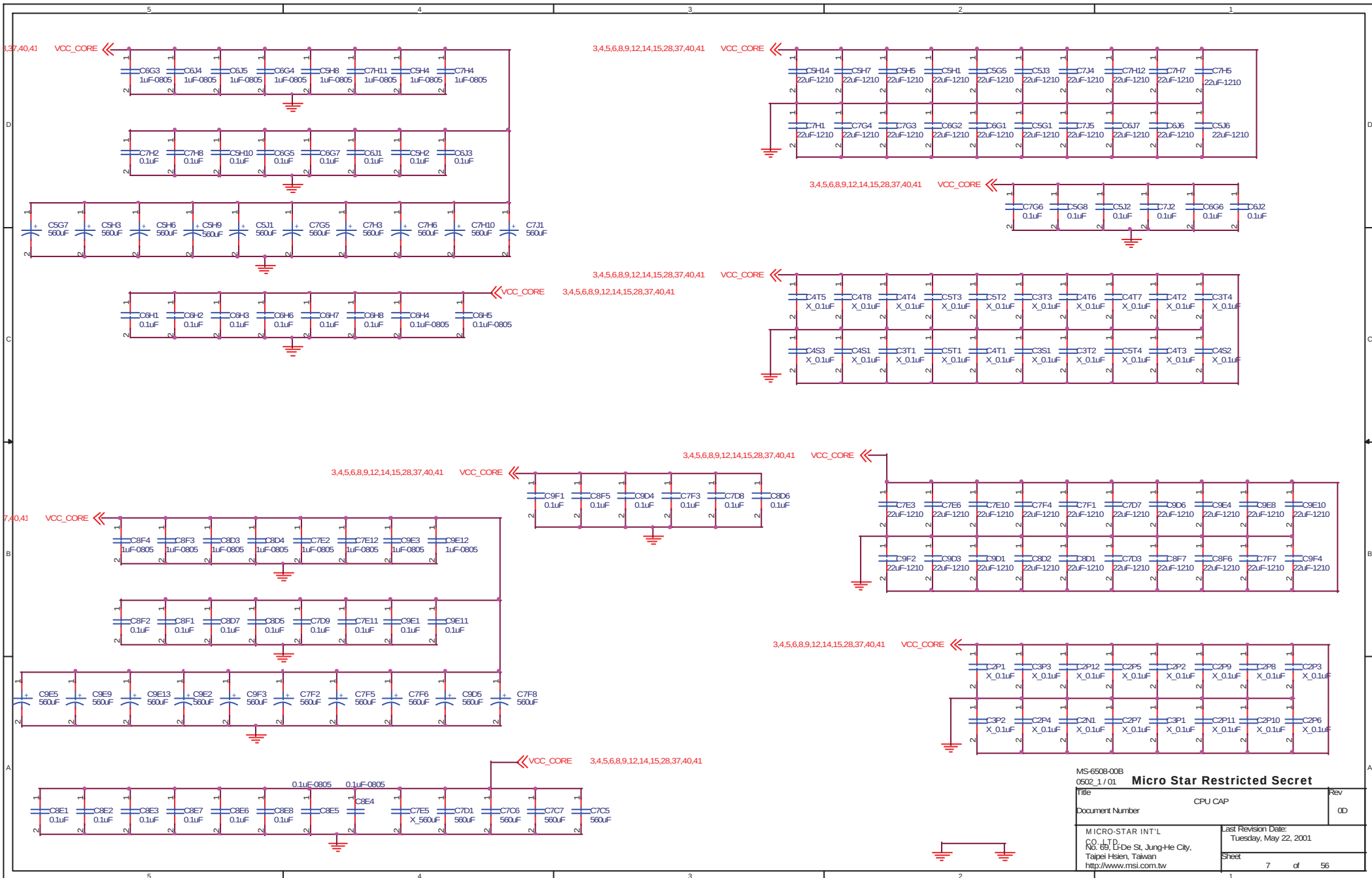
MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret	
Title	Index	Rev	00
Document Number		Last Revision Date: Tuesday, May 08, 2001	
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Sheet	1 of 56



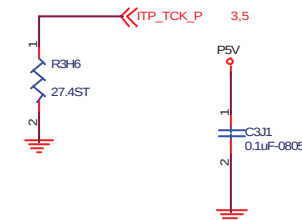
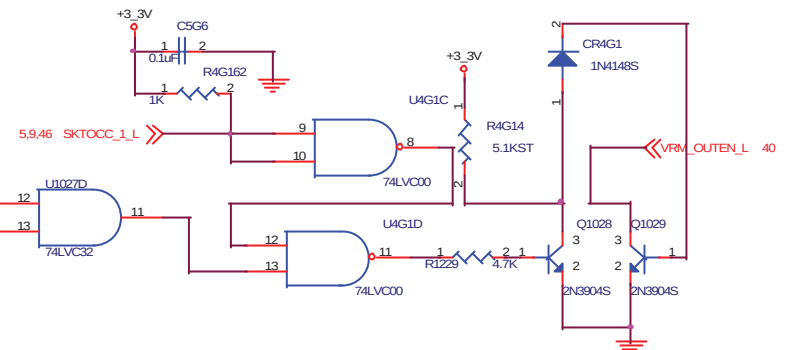
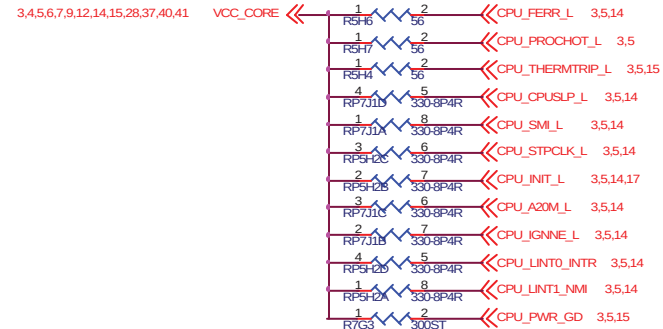
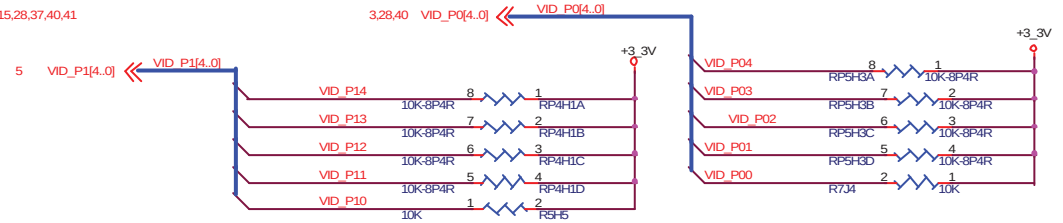
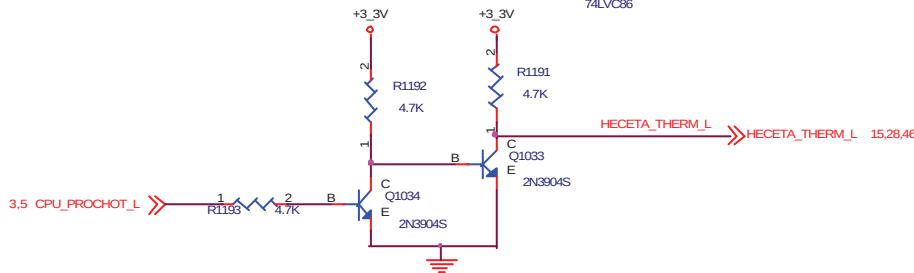
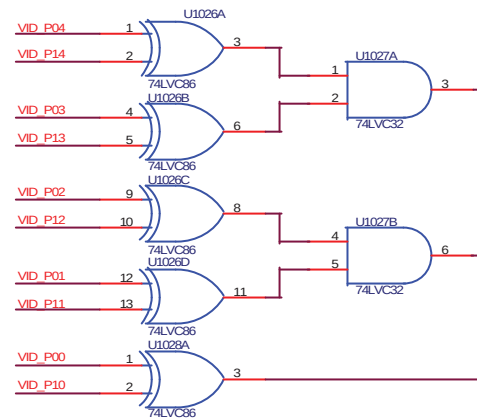
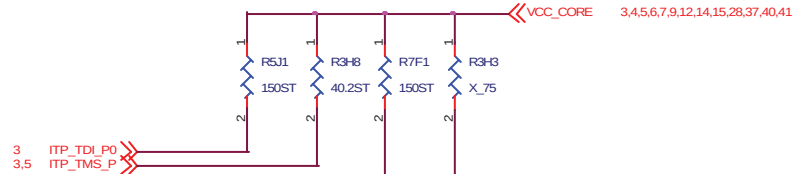
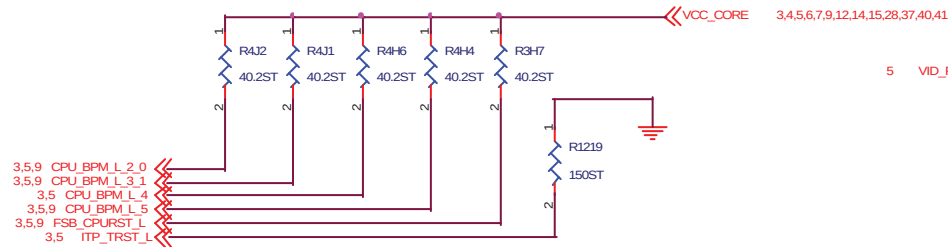




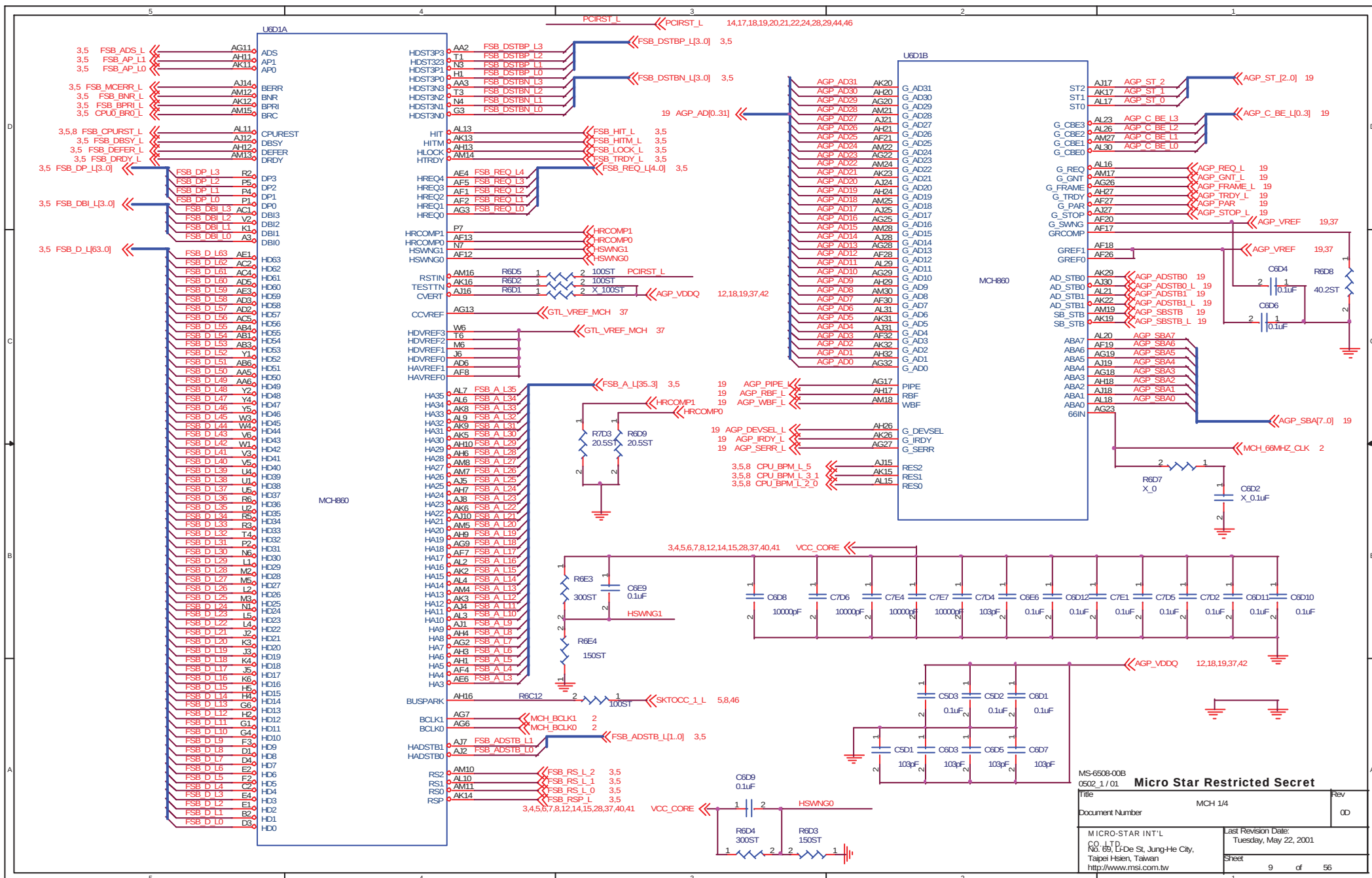


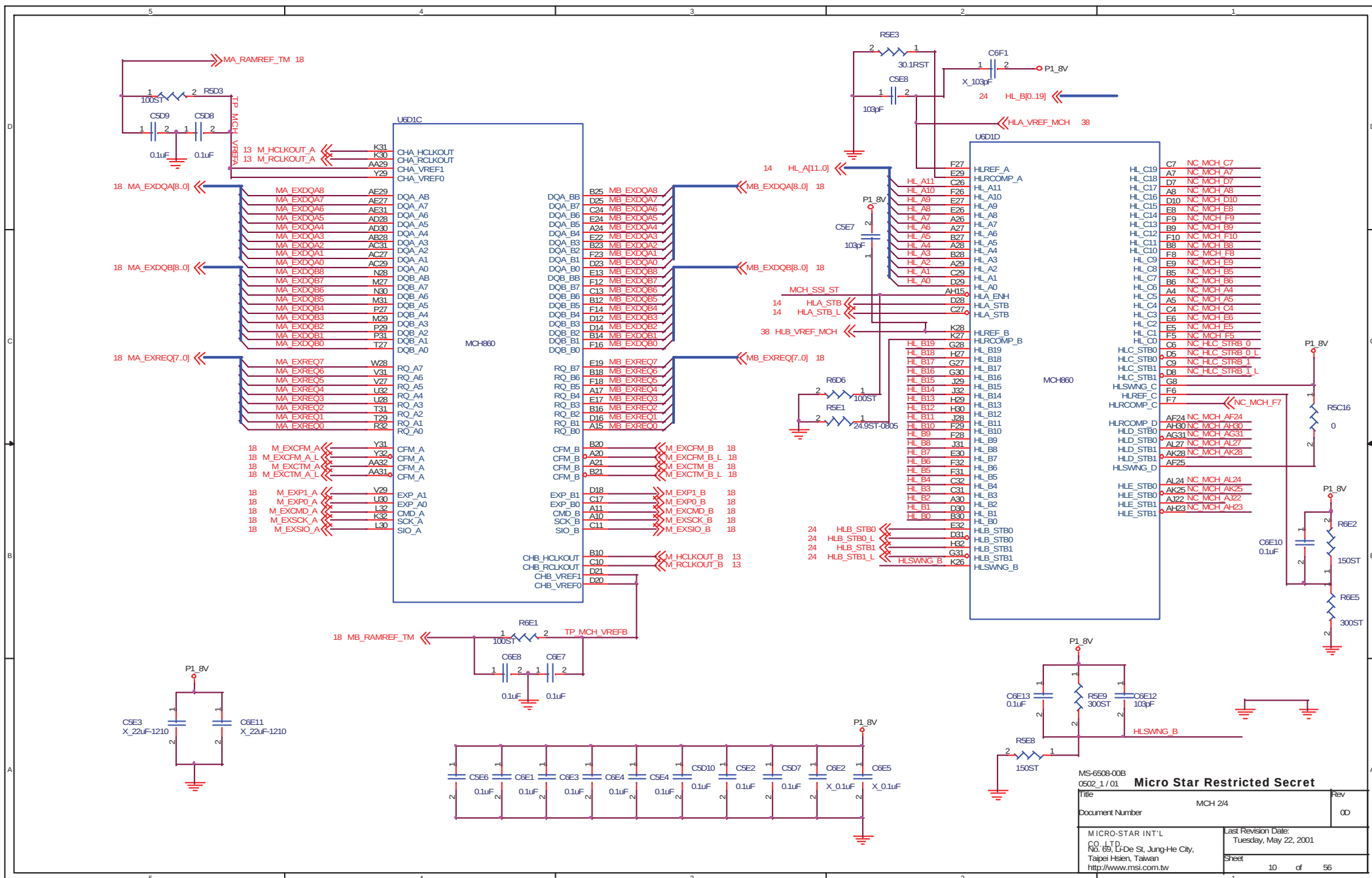


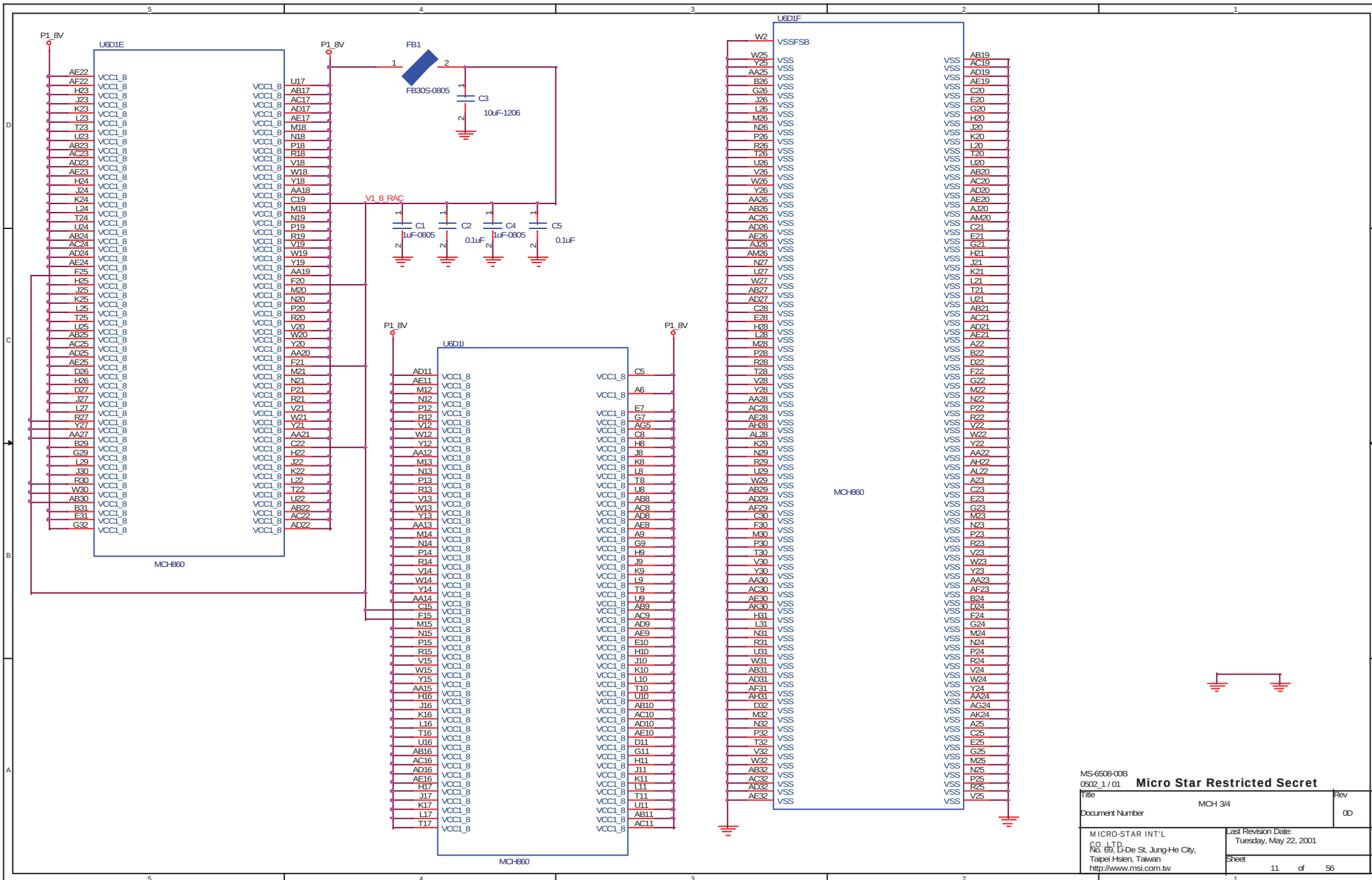
MS-6508-00B 0502_1 / 01			Micro Star Restricted Secret	
Title		CPU CAP		Rev
Document Number				00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001		
Sheet		7 of 56		

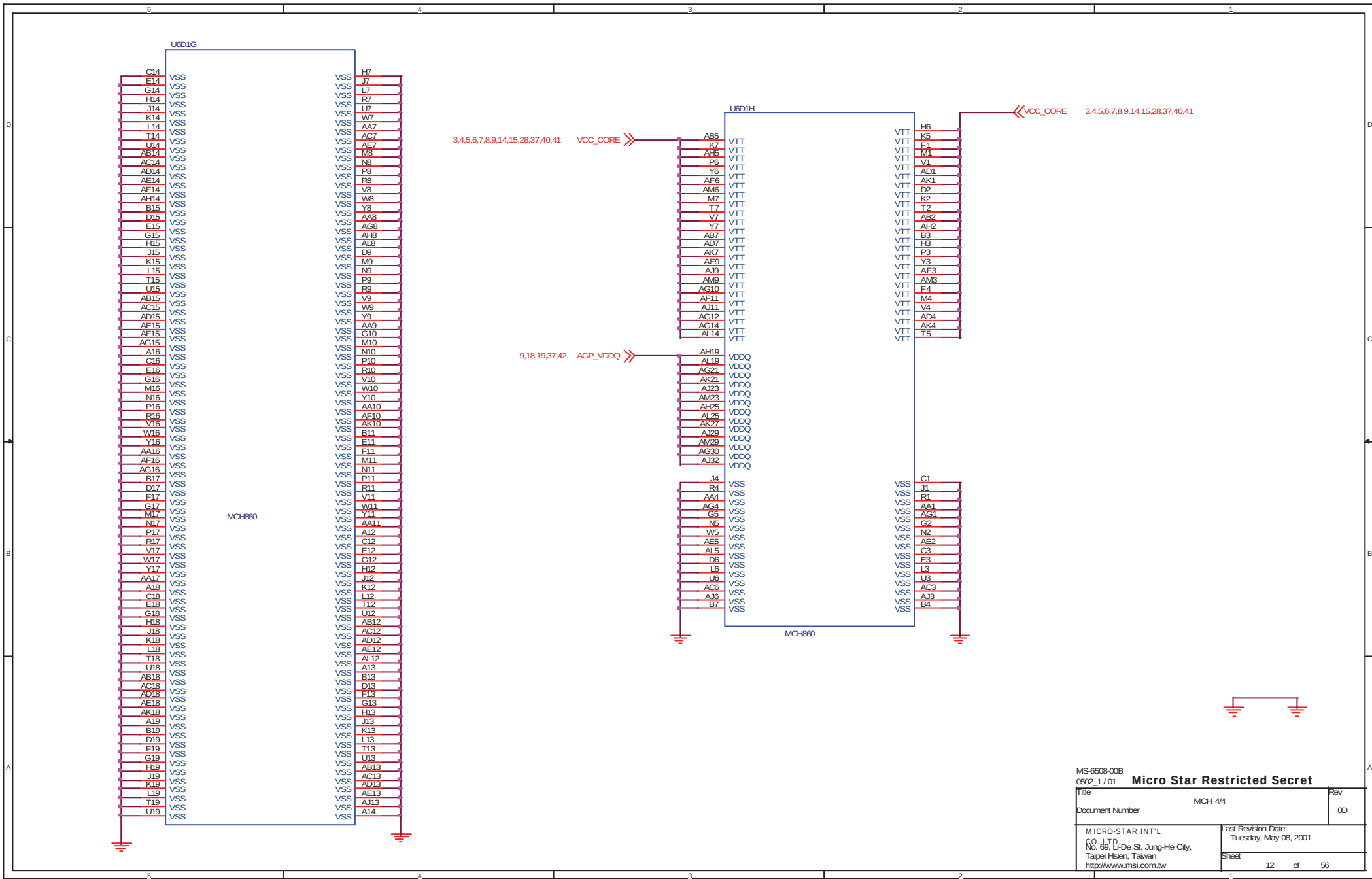


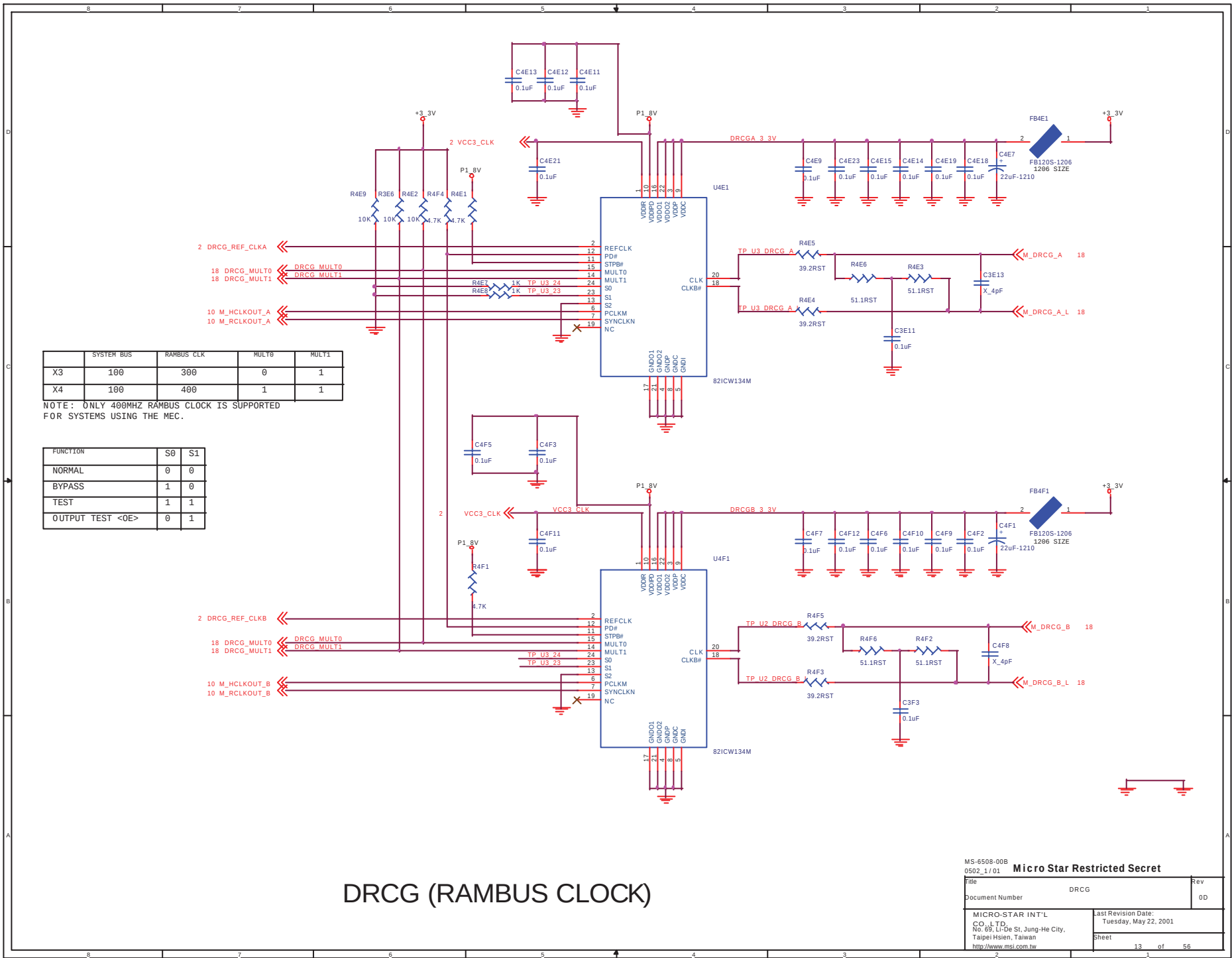
MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret	
Title	CPU PULL up and Pull down		Rev
Document Number			00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001	
Sheet		8 of 56	







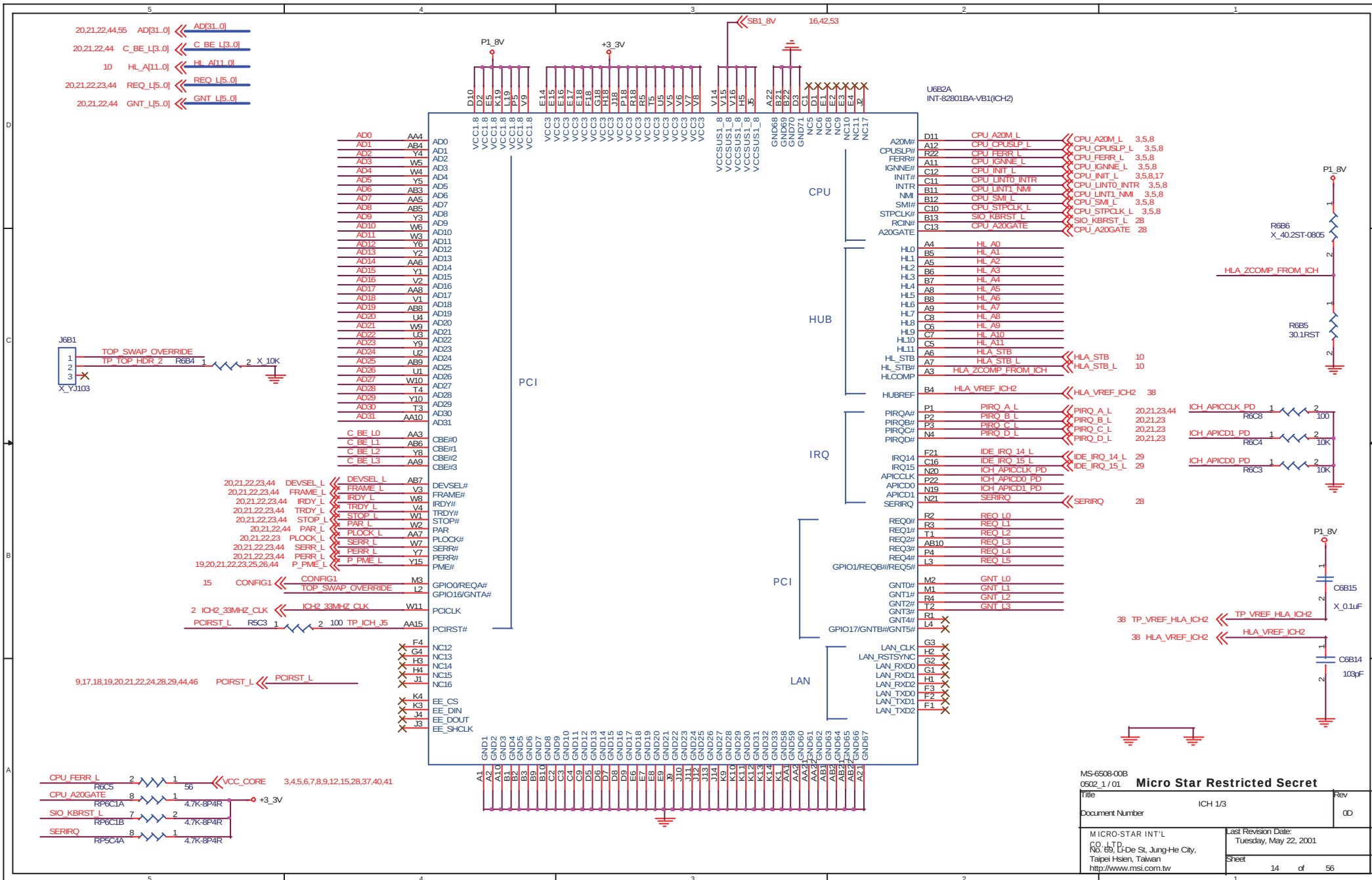


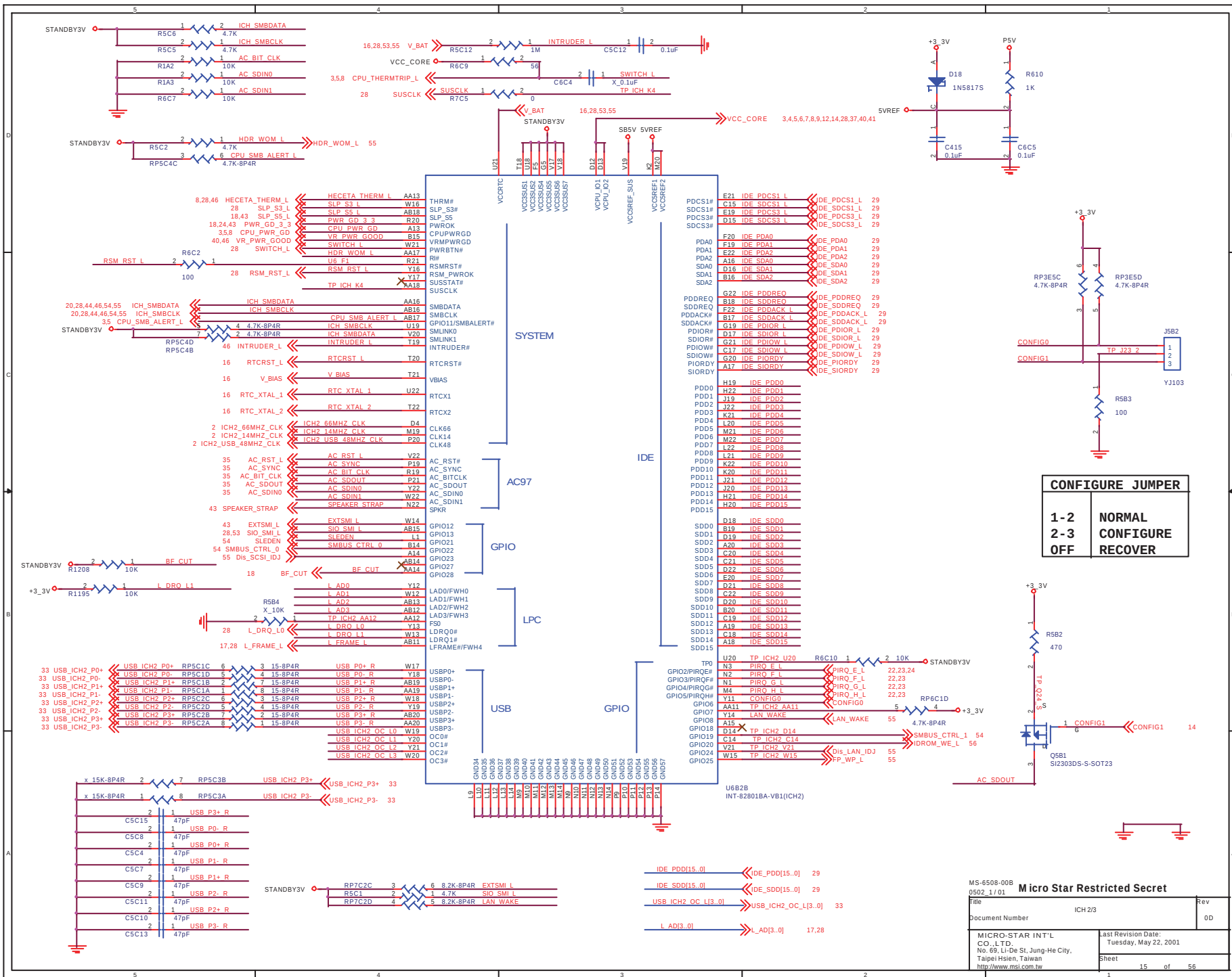


MS-6508-00B
0502_1/01

Micro Star Restricted Secret

Title	DRCG	Rev	0D
Document Number			
MICRO-STAR INT'L CO., LTD. No. 65, Li-De St, Jung-He City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001	
		Sheet	13 of 56

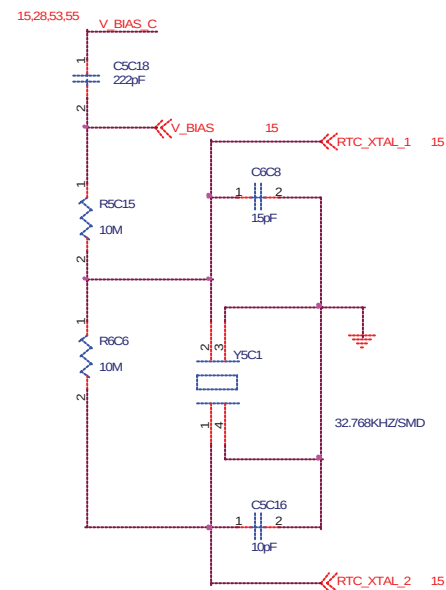
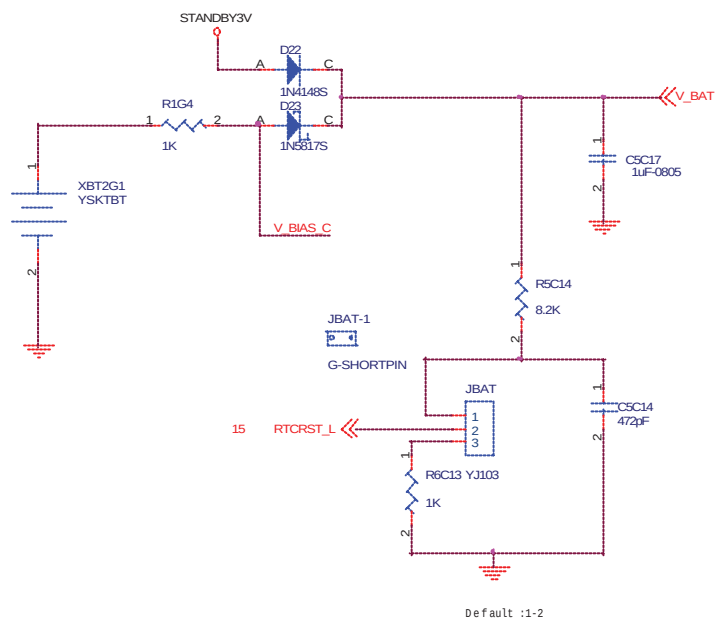
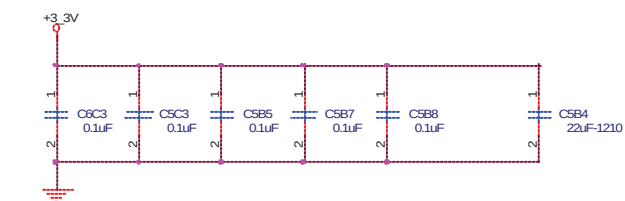
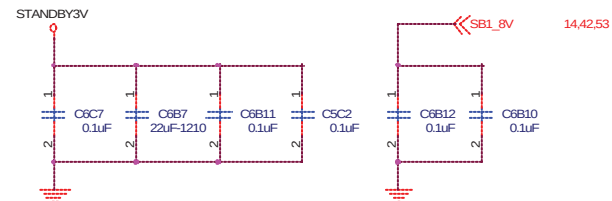
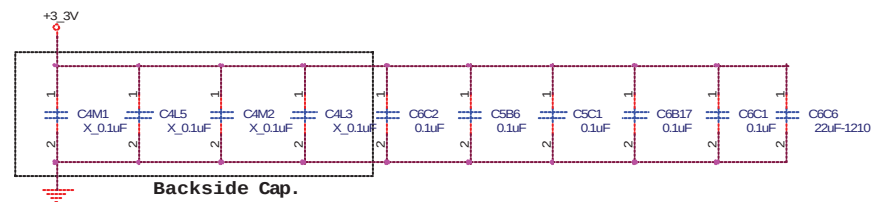
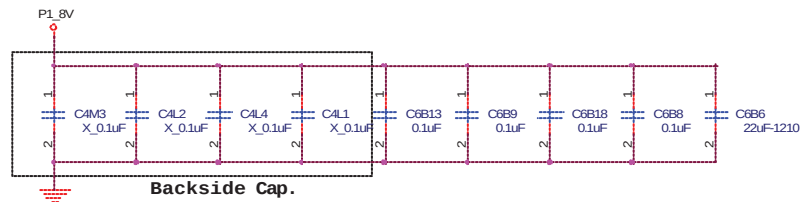




MS-6508-008
0502_1/01

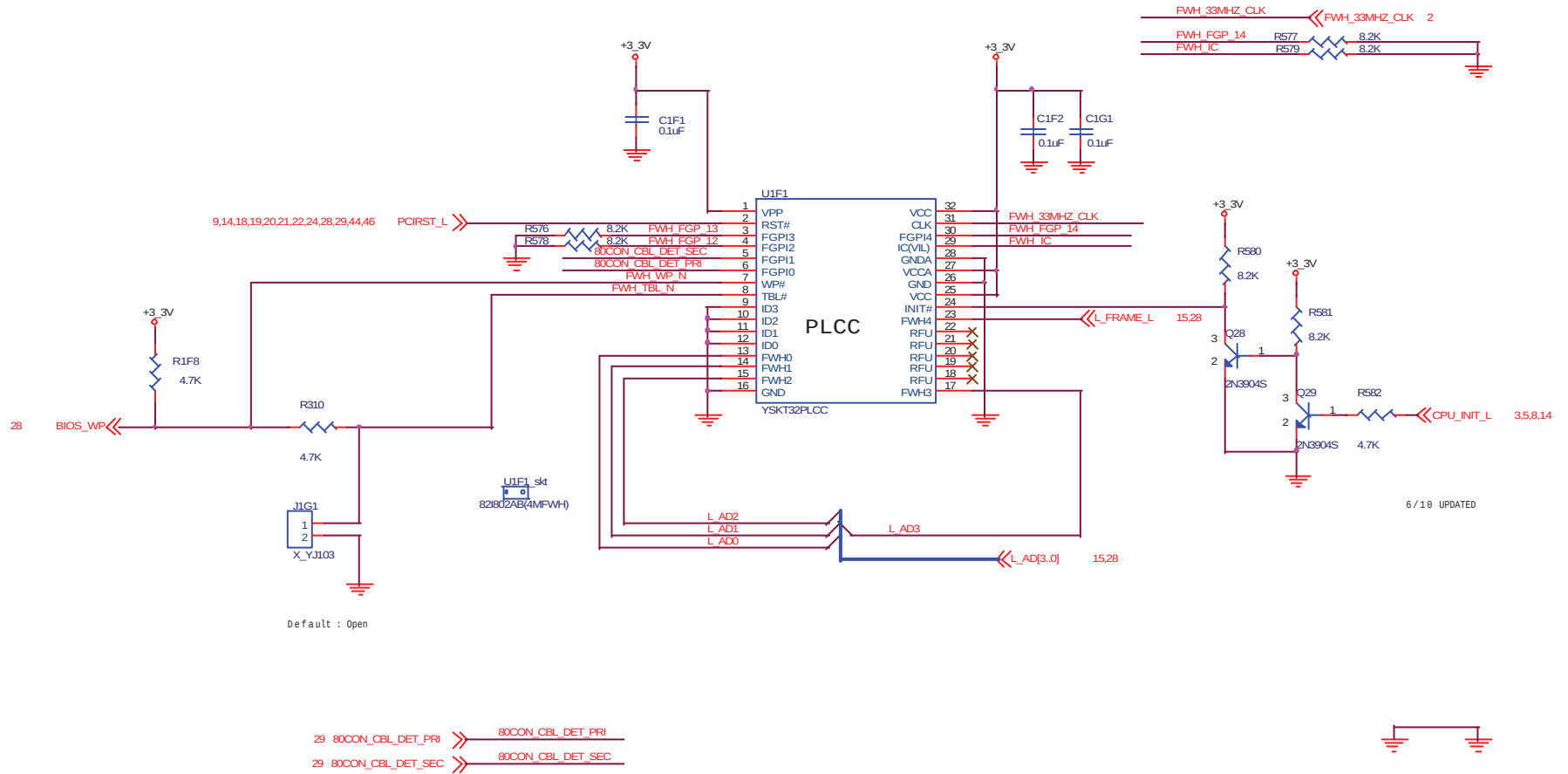
Micro Star Restricted Secret

File	ICH 2/3	Rev	0D
Document Number	ICH 2/3	Last Revision Date:	Tuesday, May 22, 2001
MICRO-STAR INT'L CO., LTD. No. 89, Li-De St. Jung-He City, Taipei Hsien, Taiwan http://www.msi.com.tw	Sheet	15	of 56

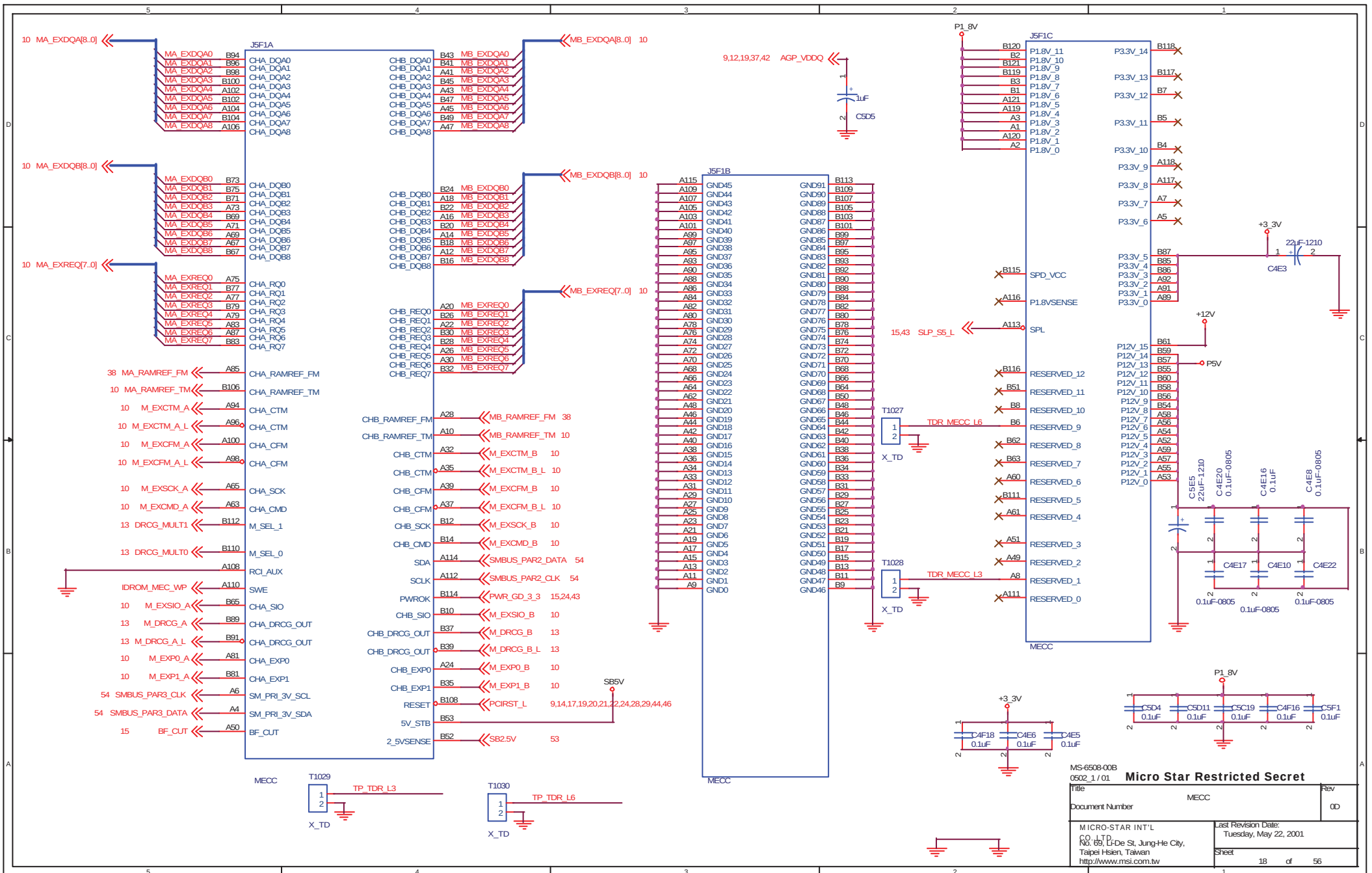


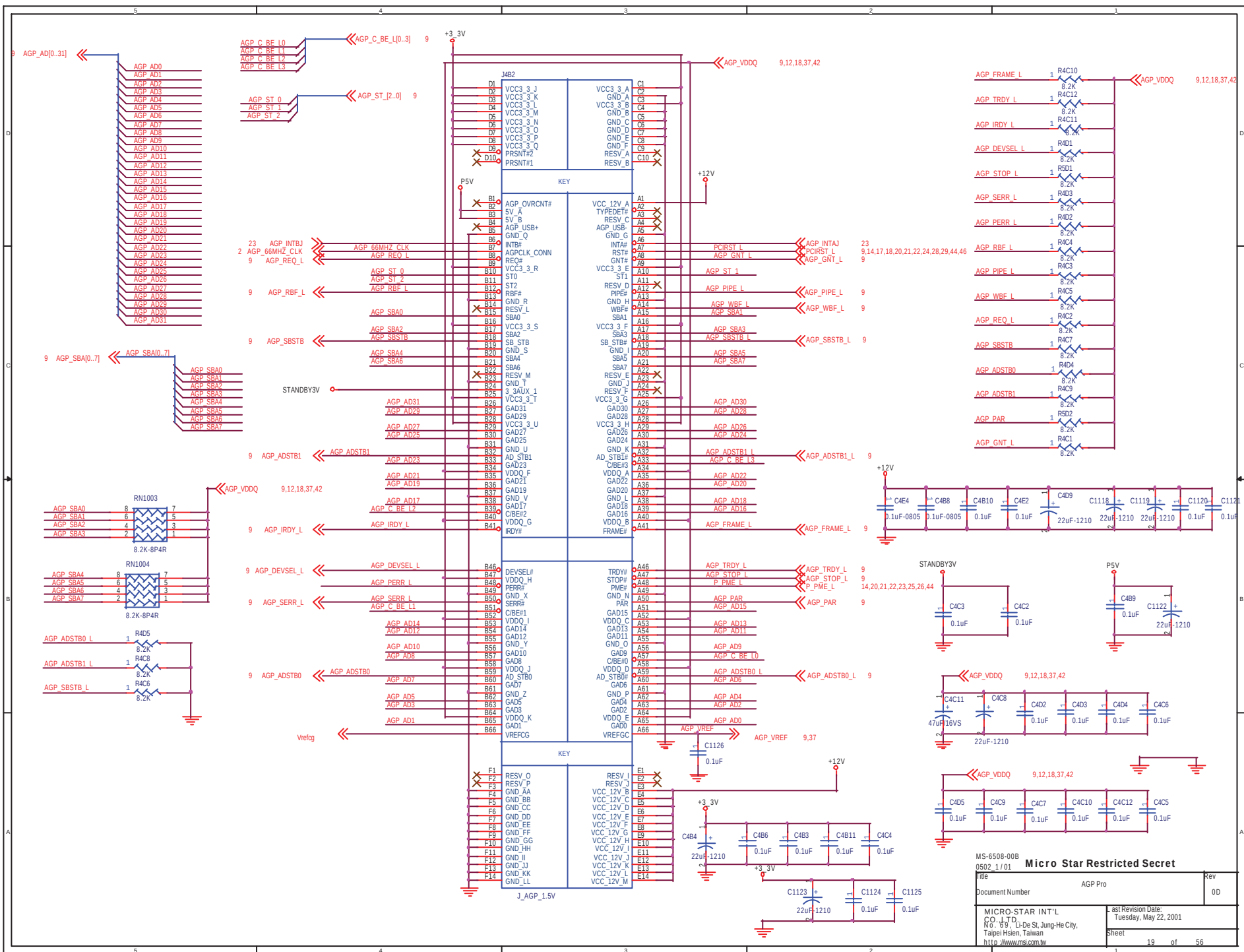
MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret	
Title		ICH 3/3	Rev
Document Number			00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001	
Sheet		16	of 56

FWH



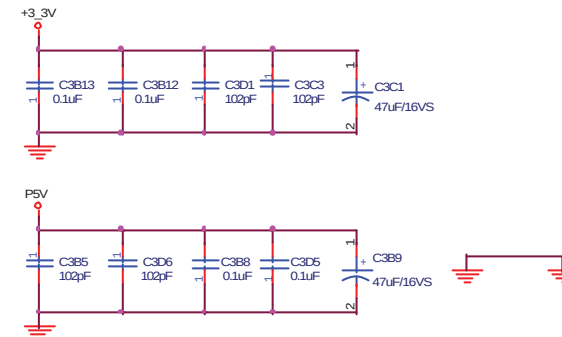
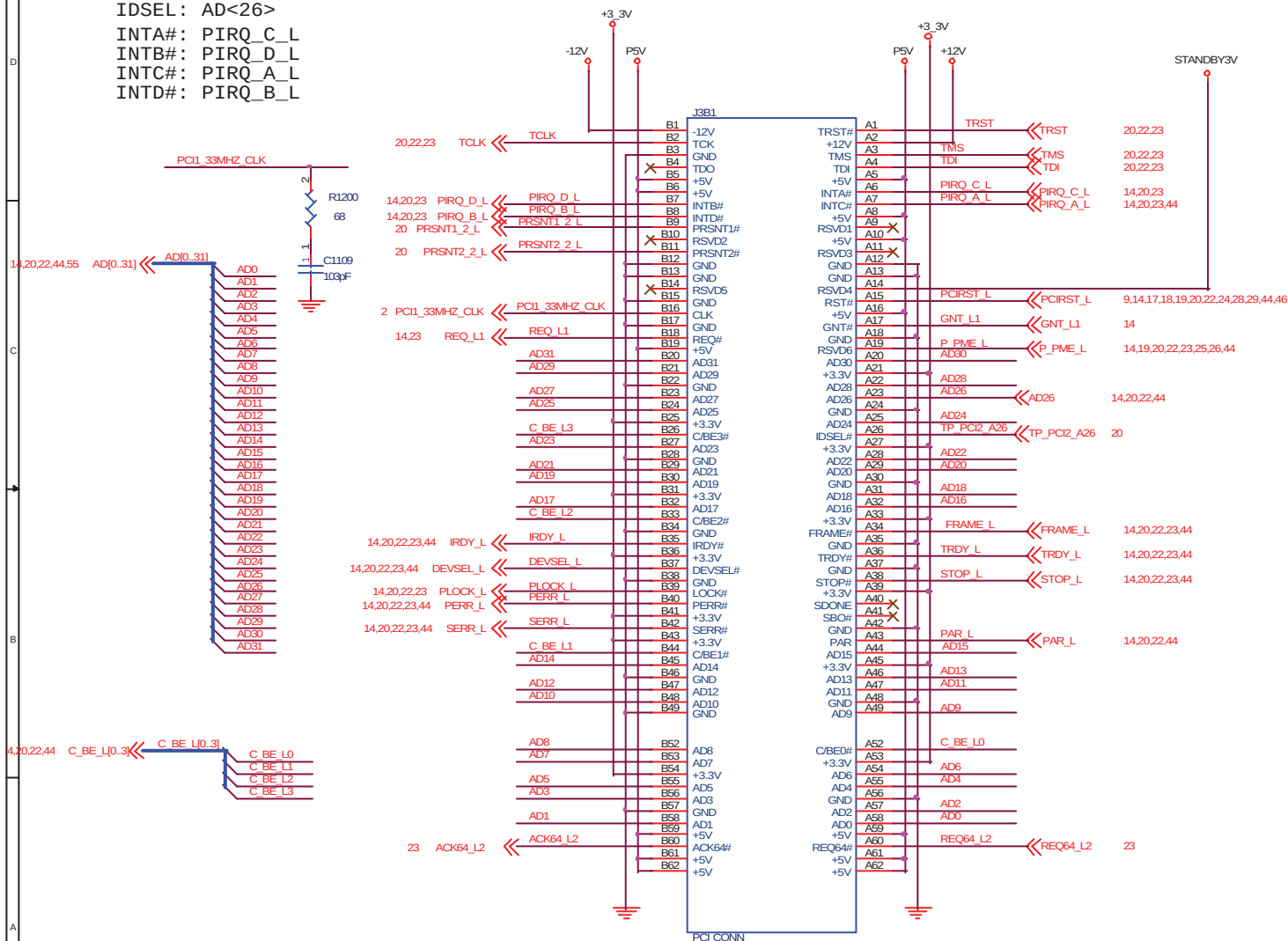
MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret	
Title		FWH	Rev
Document Number			00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001	
		Sheet	17 of 56





PCI Connector 2

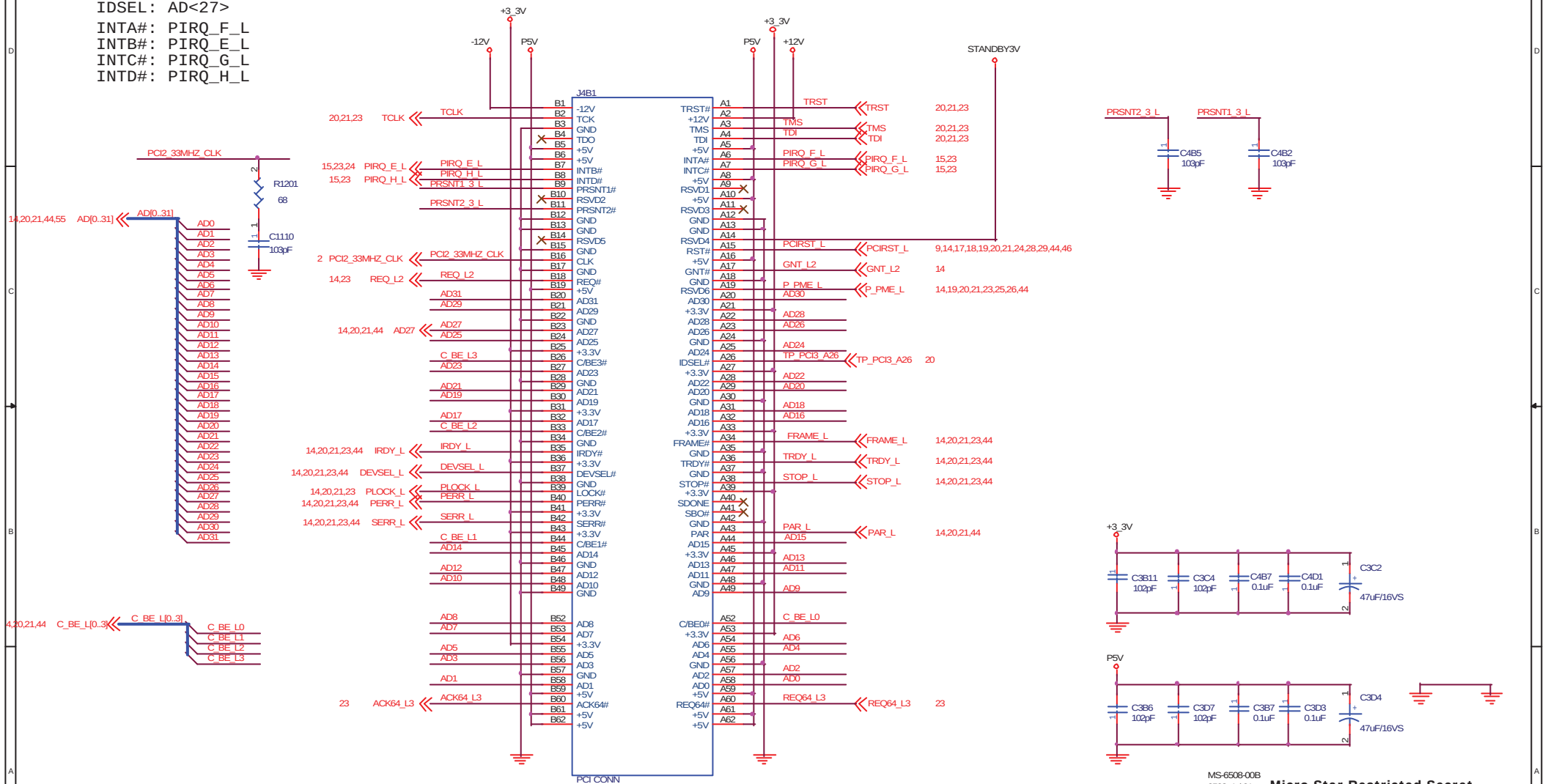
IDSEL: AD<26>
 INTA#: PIRQ_C_L
 INTB#: PIRQ_D_L
 INTC#: PIRQ_A_L
 INTD#: PIRQ_B_L



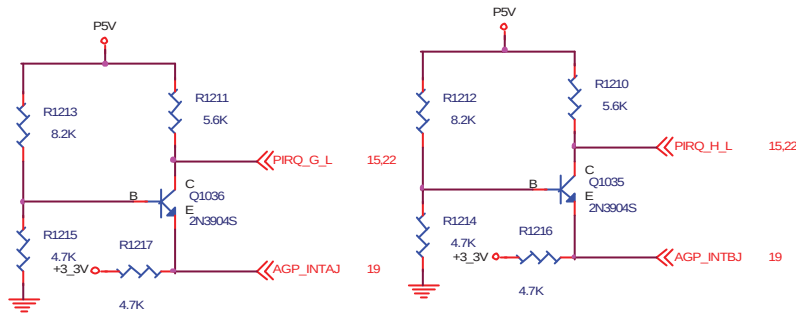
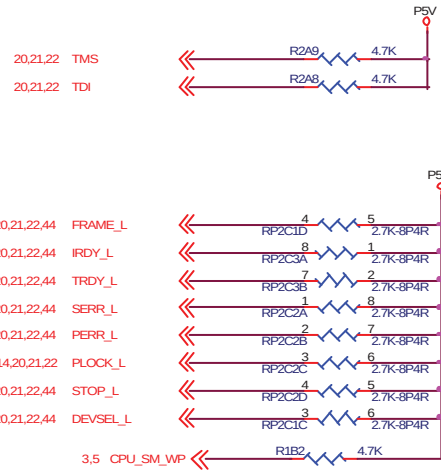
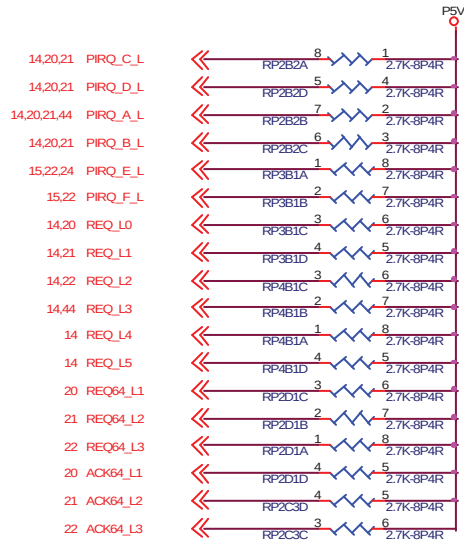
MS-6508-00B 0502_1 / 01			Micro Star Restricted Secret	
Title		PCI 2		Rev
Document Number				00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-He City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001		Sheet
		21 of 56		

PCI Connector 3

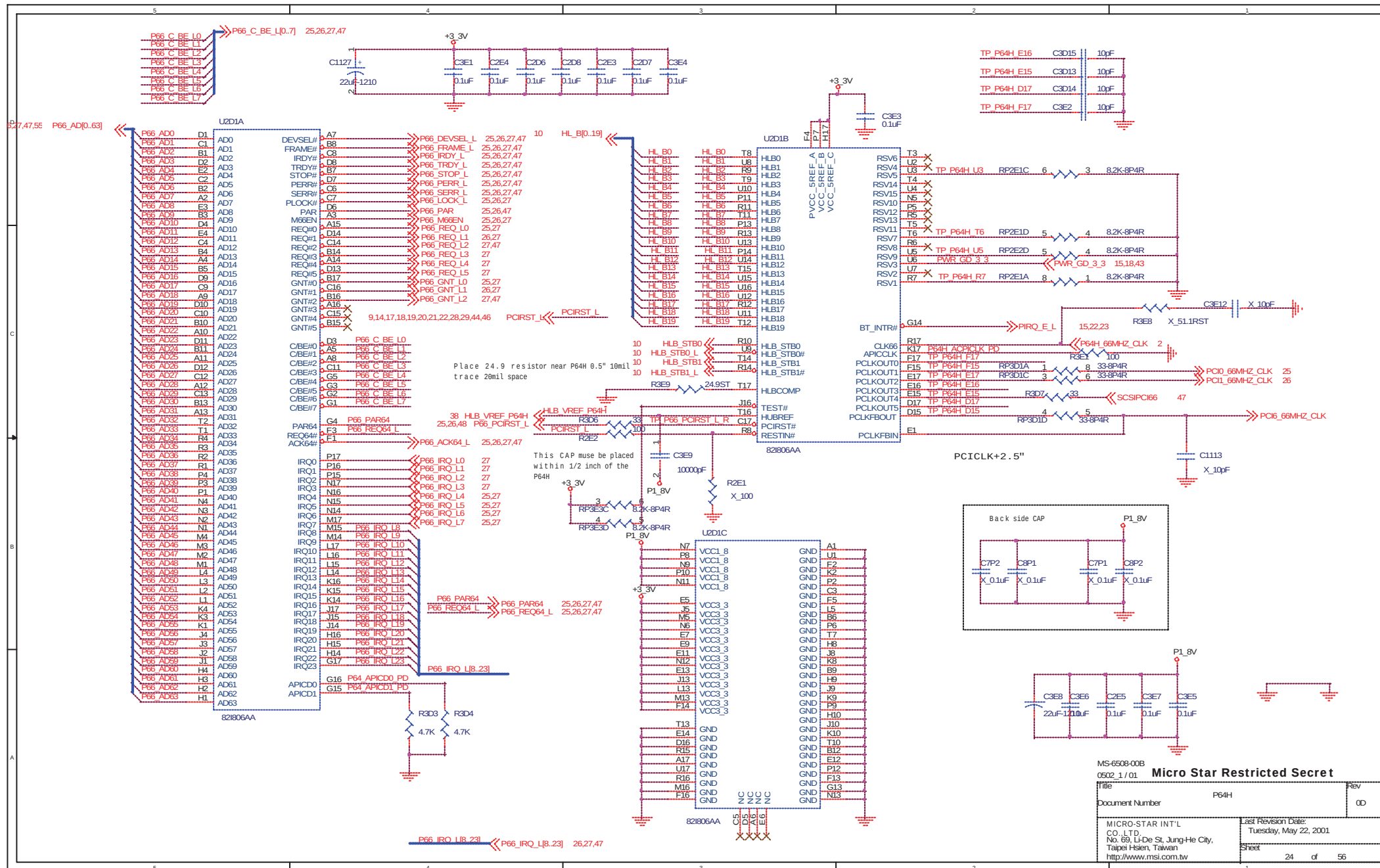
IDSEL: AD<27>
 INTA#: PIRQ_F_L
 INTB#: PIRQ_E_L
 INTC#: PIRQ_G_L
 INTD#: PIRQ_H_L



MS-6508-00B 0502_1 / 01			Micro Star Restricted Secret	
Title		PCI 3		Rev
Document Number				00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001		Sheet
				22 of 56

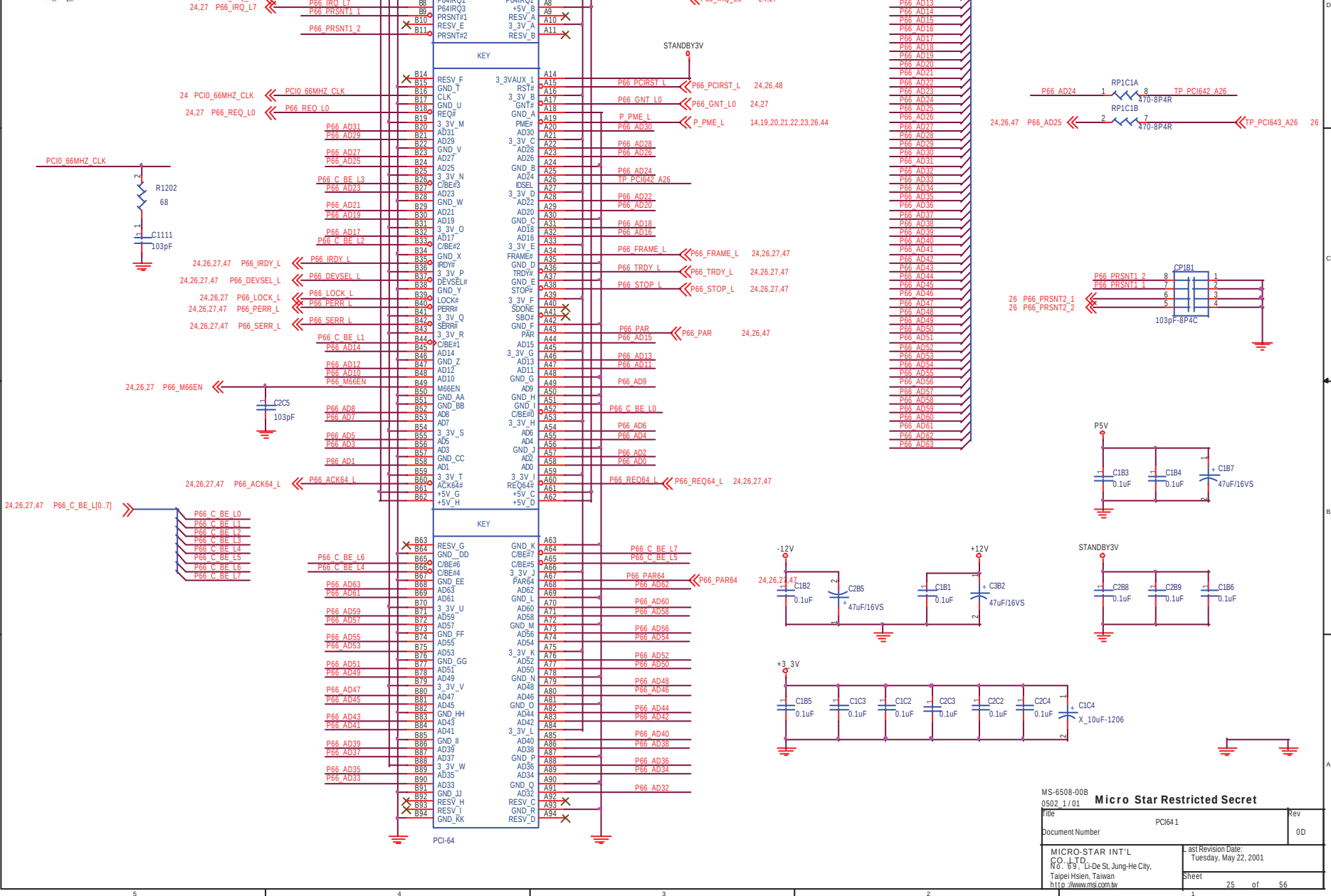


MS-6508-00B 0502_1 / 01			Micro Star Restricted Secret	
Title	PCI 33 Termination			Rev
Document Number				00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 08, 2001		
Sheet		23 of 56		

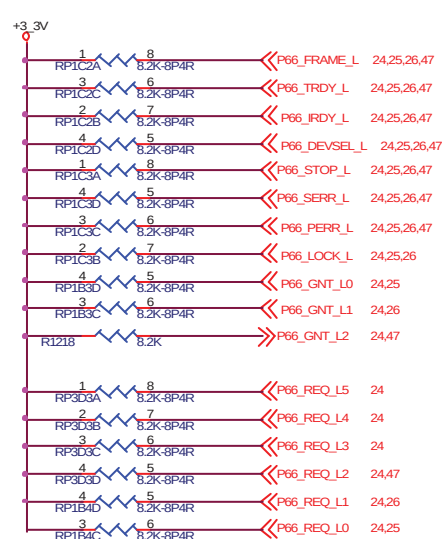
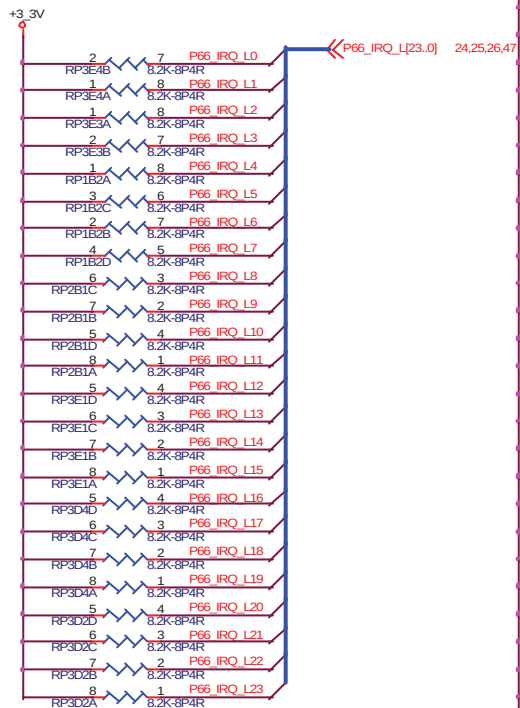
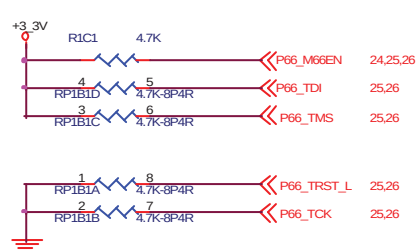


PCI 64 SLOT2

IDSEL:P66_AD24
INTA#: P66_IRQ_L4
INTB#: P66_IRQ_L5
INTC#: P66_IRQ_L6
INTD#: P66_IRQ_L7



MS-6508-00B 9502 1/01			Micro Star Restricted Secret	
Title		PCI641		Rev
Document Number				00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-He City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001		Sheet
		25		of 56



FLOPPY DISK HEADER

SOUTA	L: Disable KBC	H: Enable KBC
SOUTB	L: 24MHZ	H: 48MHZ
RTSA#	L: CFAD=2E	H: CFAD=4E
DTRA#	L: PNP Default	L: PNP no Default

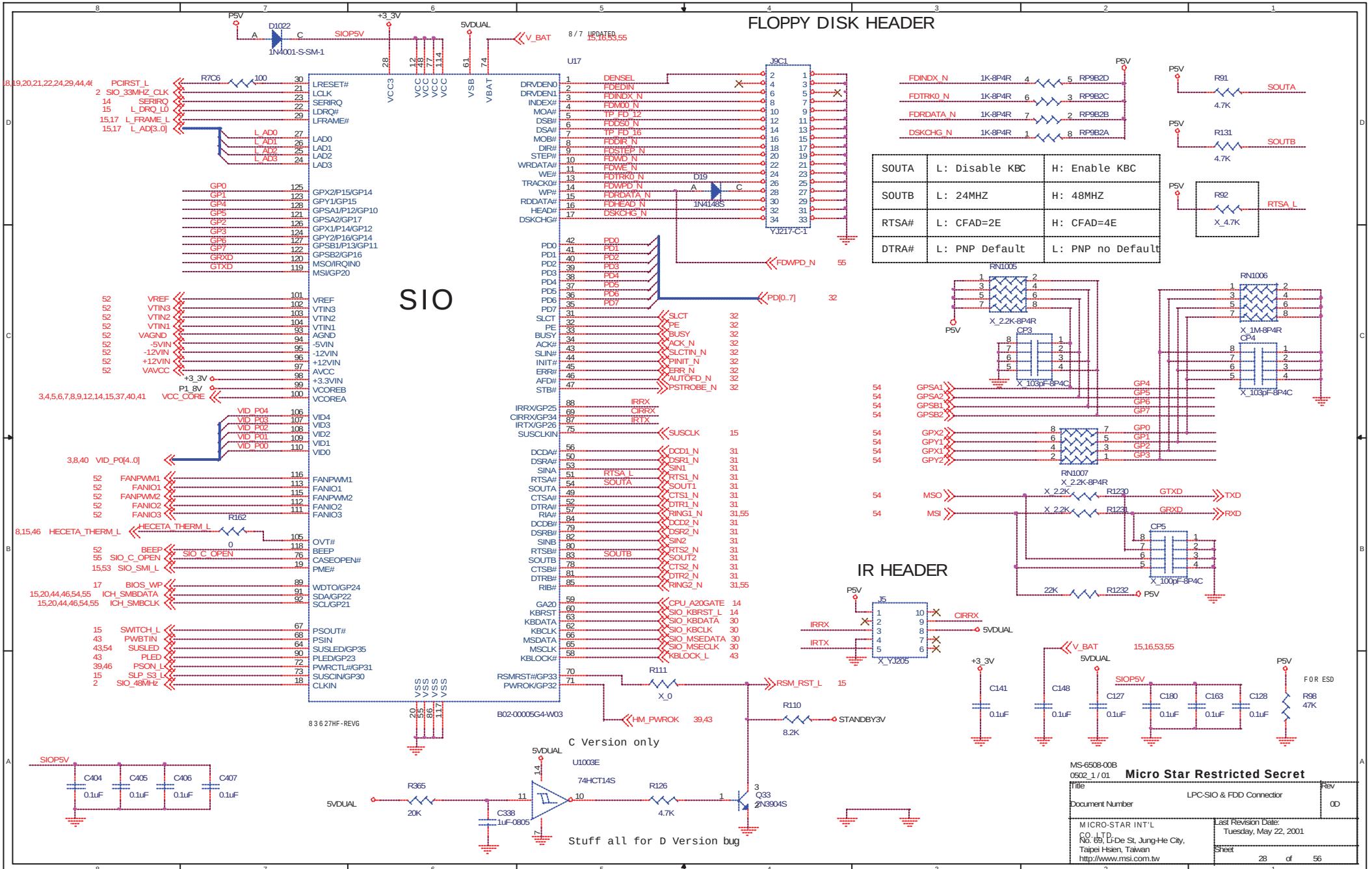
IR HEADER

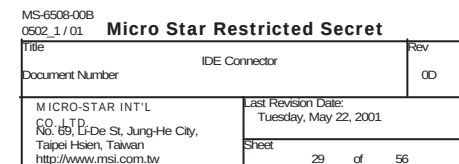
MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret	
Title		LPC-SIO & FDD Connector	
Document Number		Rev	
MICRO-STAR INT'L		Last Revision Date:	
CO., LTD.		Tuesday, May 22, 2001	
No. 69, Li-De St, Jung-He City,		Sheet	
Taipei Hsien, Taiwan		28 of 56	
http://www.msi.com.tw			

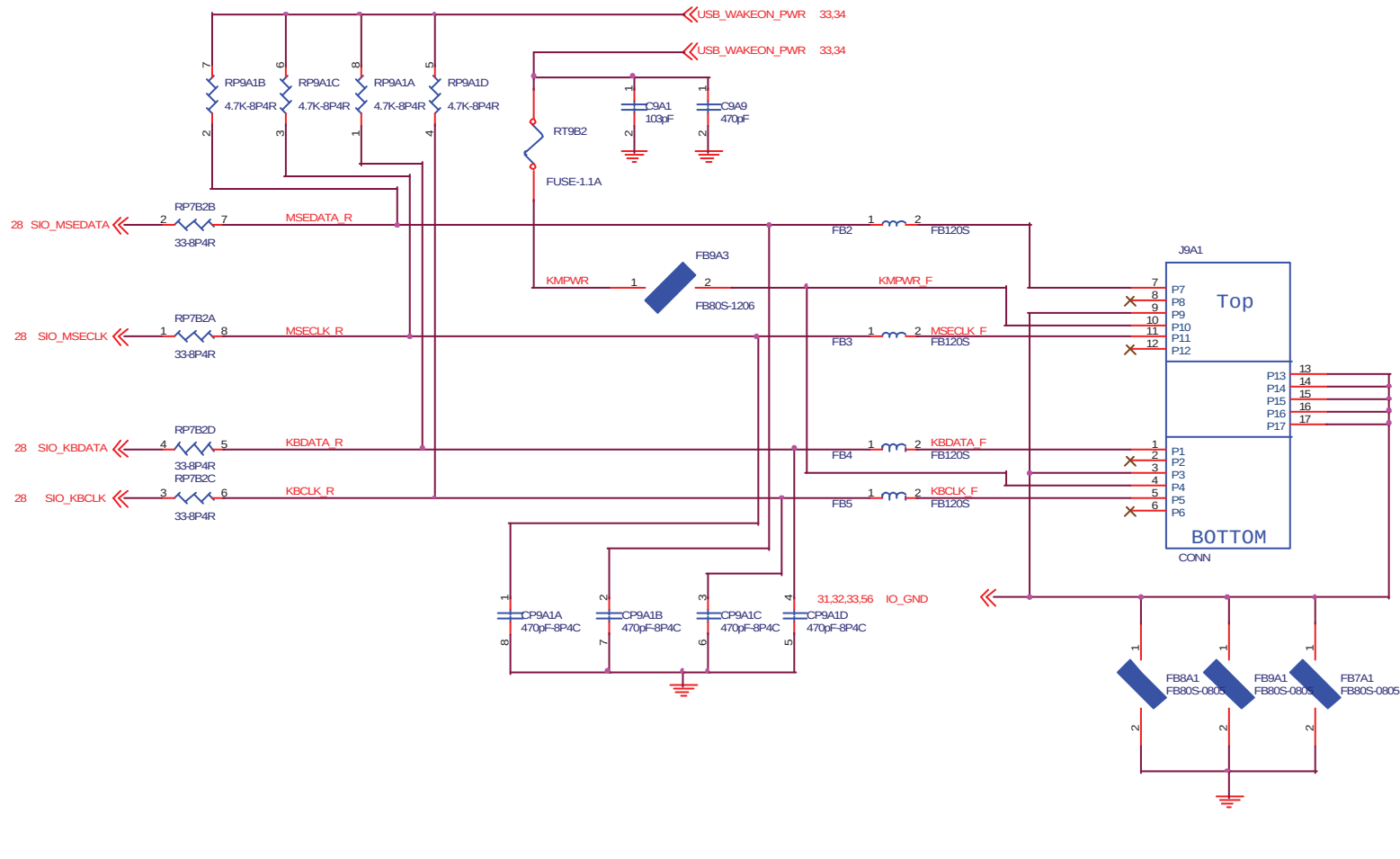
SIO

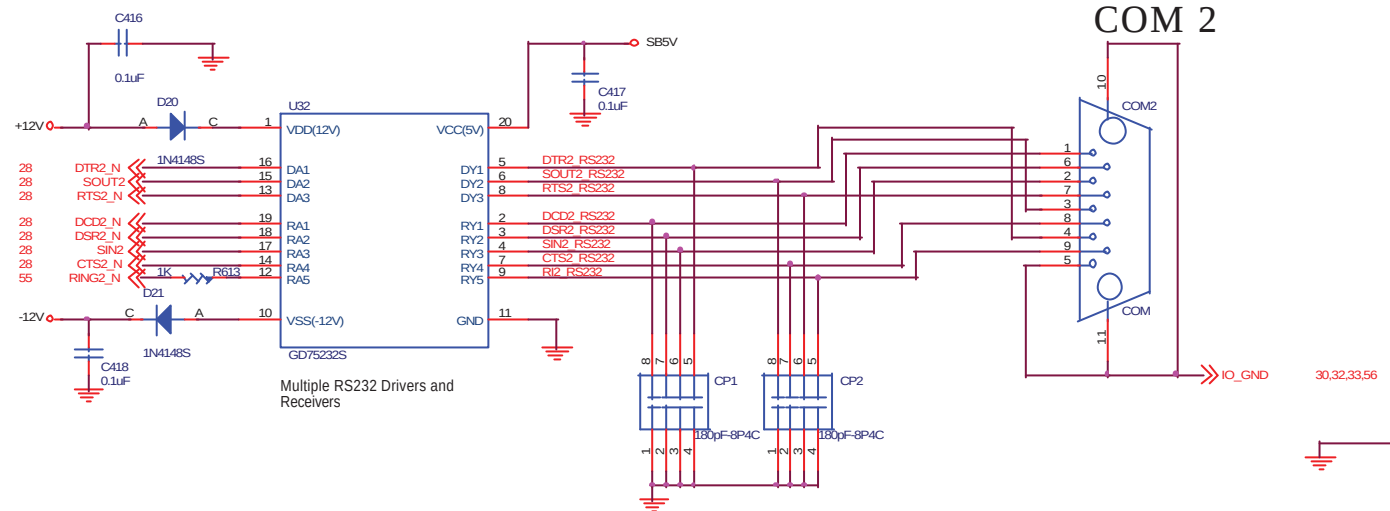
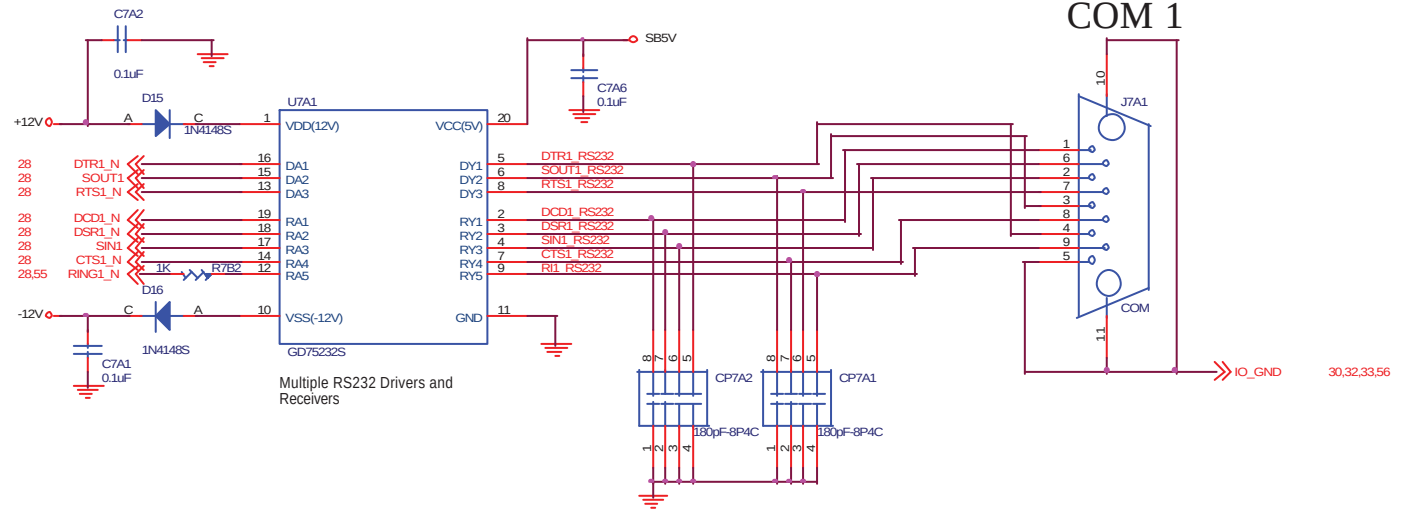
C Version only

Stuff all for D Version bug

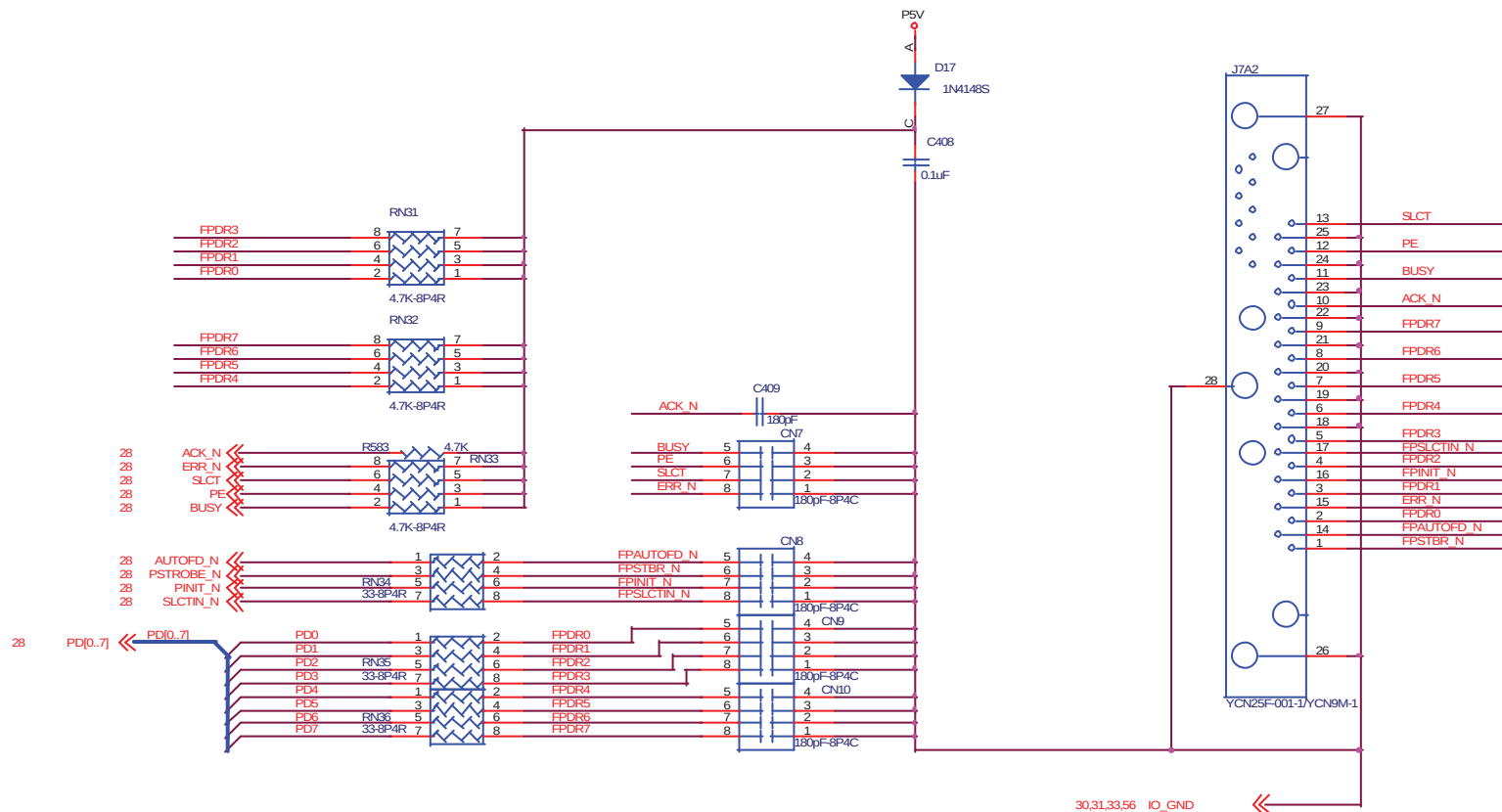








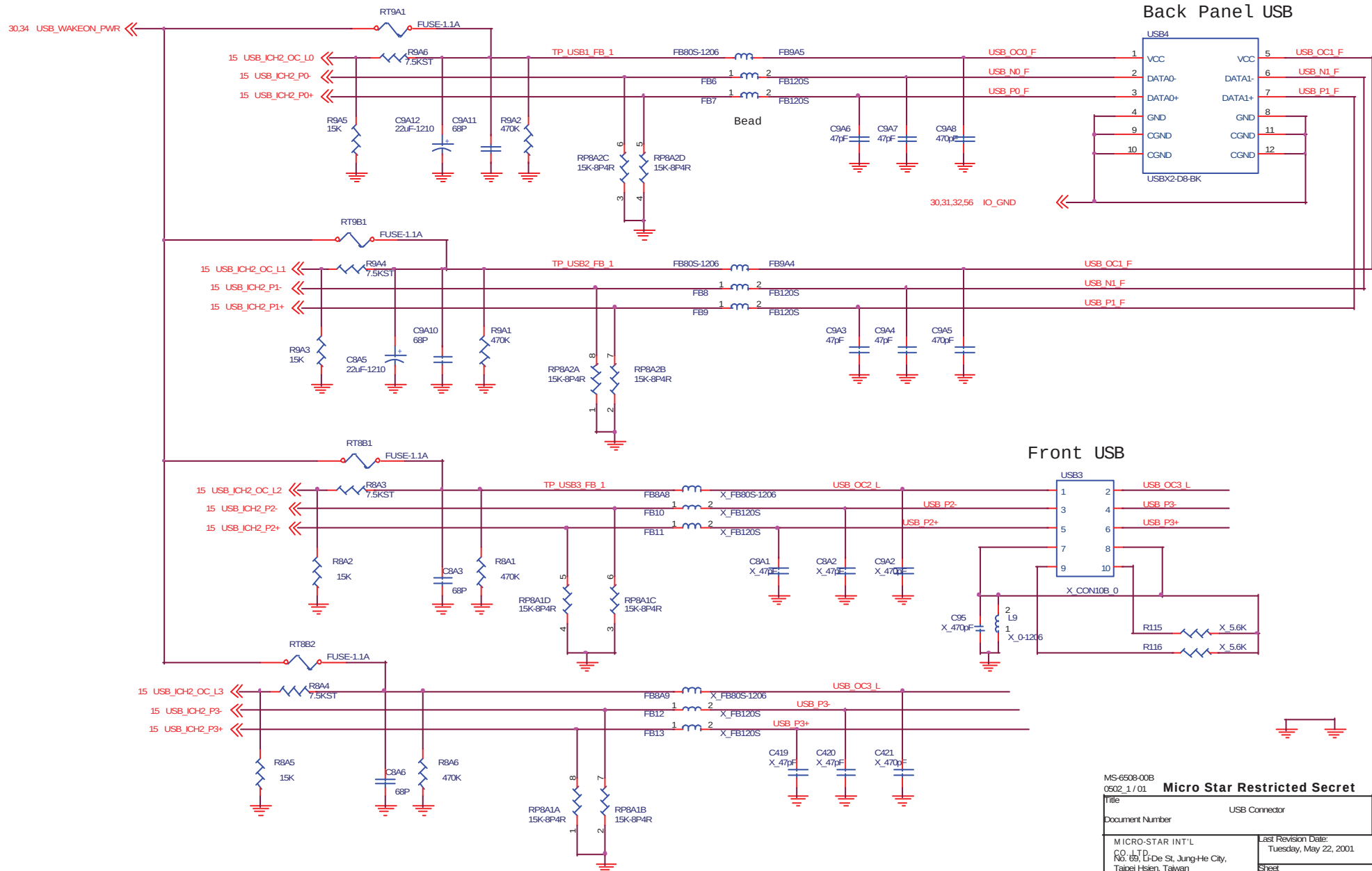
MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret		A
Title		COM Port		Rev
Document Number				00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-He City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001		
Sheet		31 of 56		



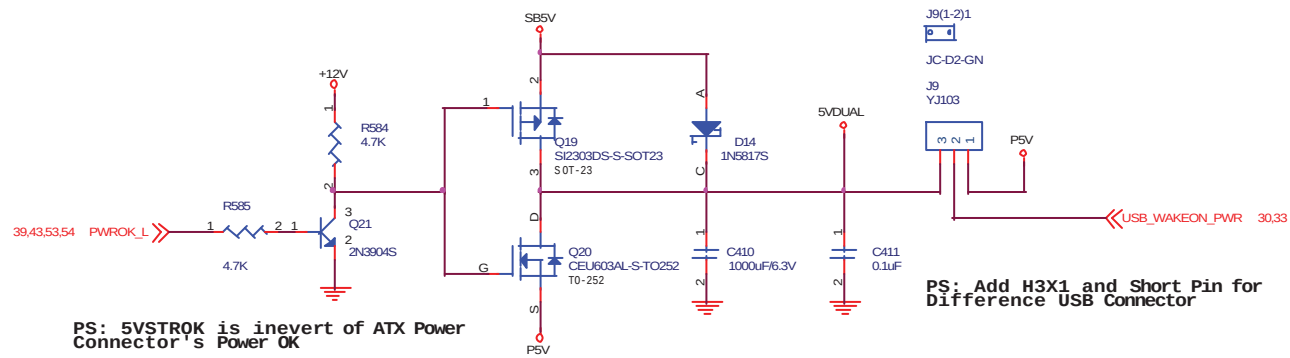
MS-6508-00B
0502_1 / 01

Micro Star Restricted Secret

Title	Printer Port	Rev
Document Number		00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-He City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001
Sheet		32 of 56



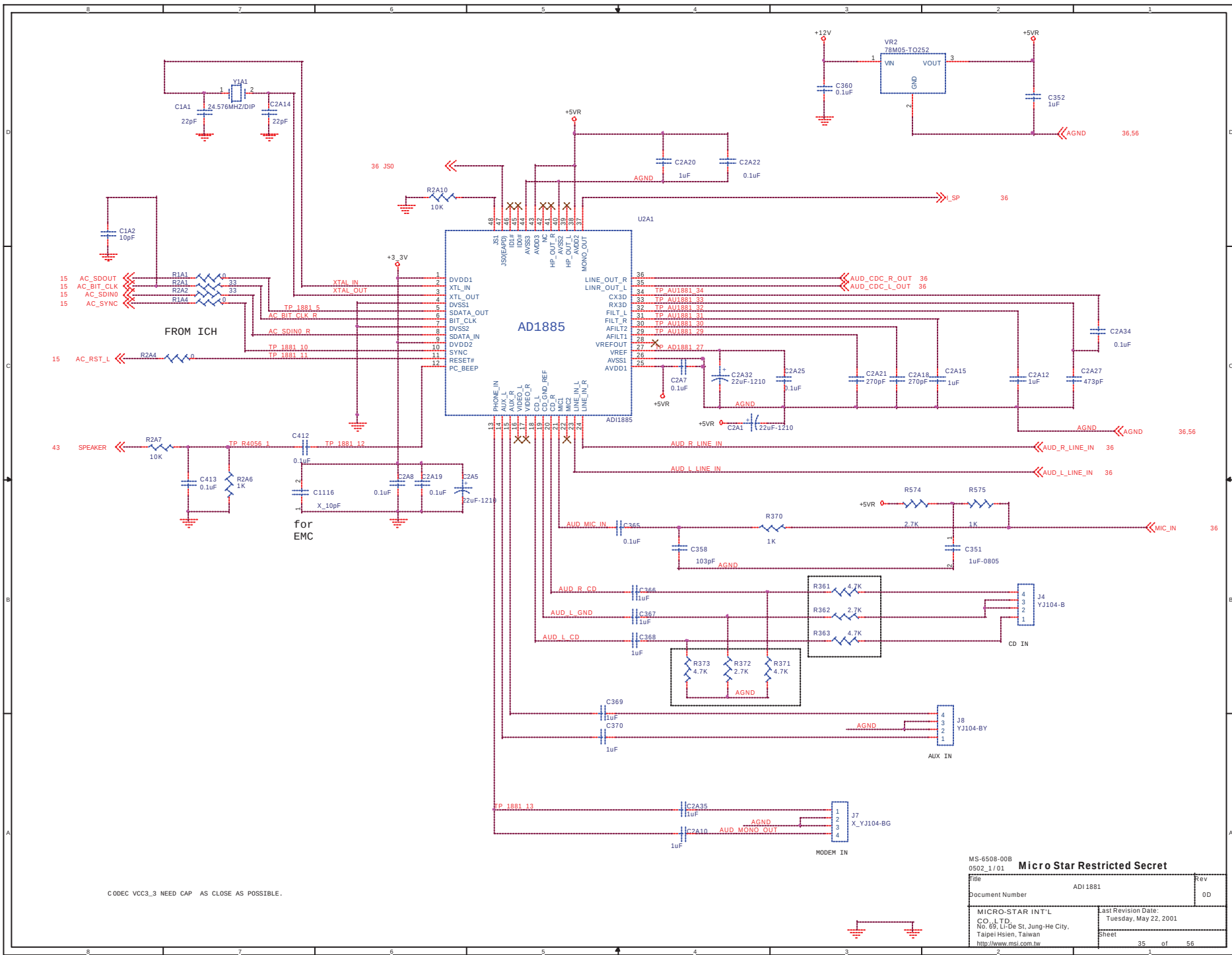
MS-6508-00B 0502_1 / 01			Micro Star Restricted Secret	
Title		USB Connector		Rev
Document Number				00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Hsue City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001		Sheet
		33 of 56		



MS-6508-00B
0502_1 / 01

Micro Star Restricted Secret

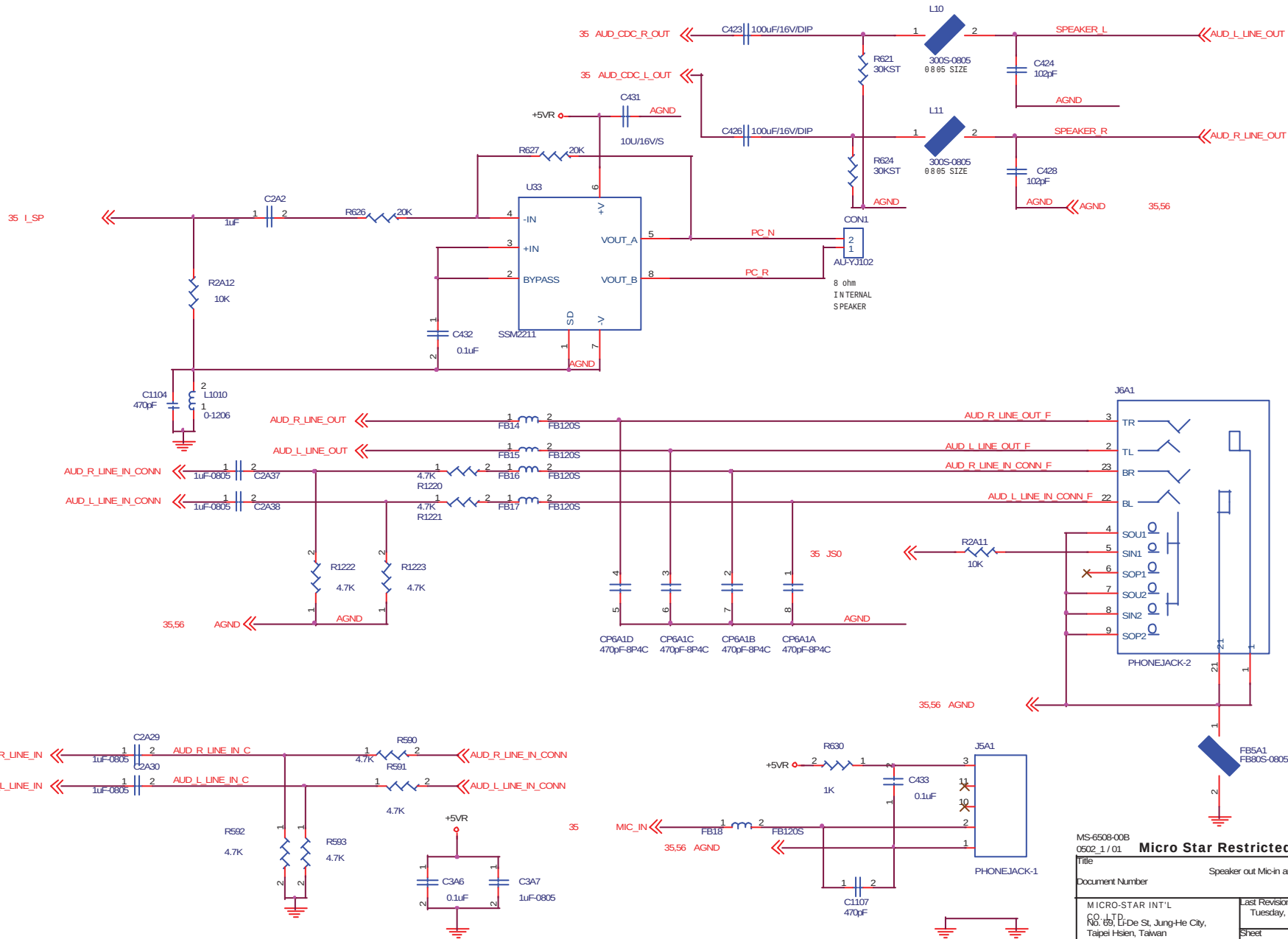
Title	Wake On Power	Rev
Document Number		00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw	Last Revision Date: Tuesday, May 22, 2001	
Sheet	34	of 56



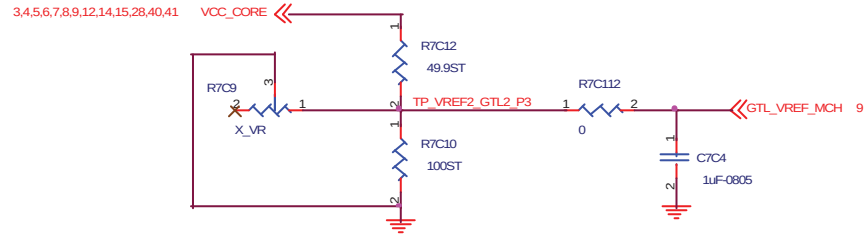
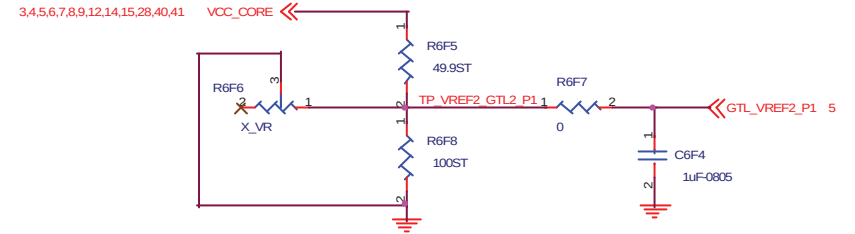
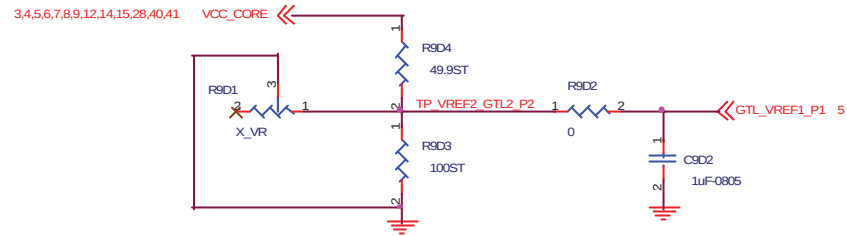
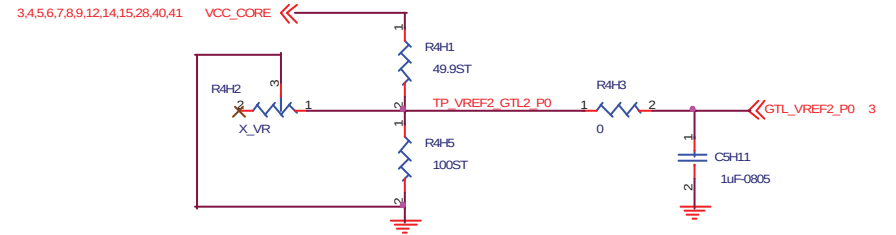
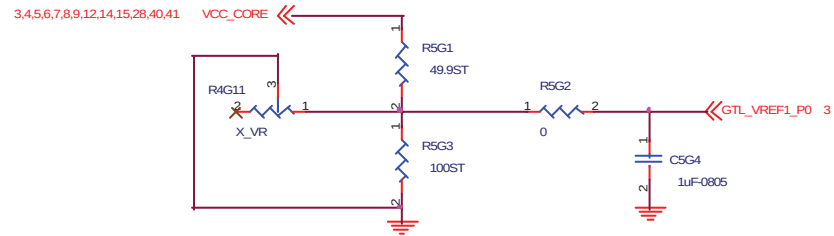
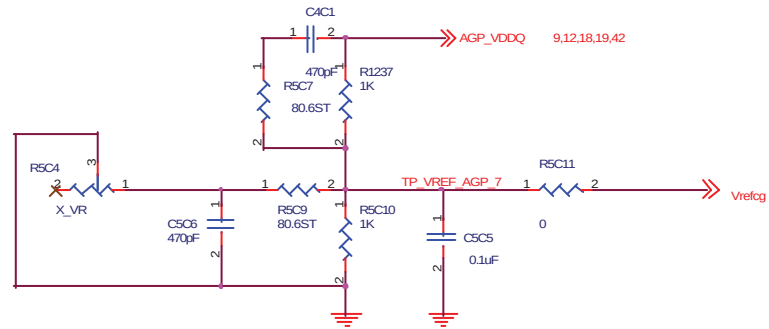
MS-6508-008
0502_1/01

Micro Star Restricted Secret

File	AD1881	Rev	0D
Document Number			
MICRO-STAR INT'L CO., LTD. No. 89, Li-De St. Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001 Sheet	
		35 of 56	



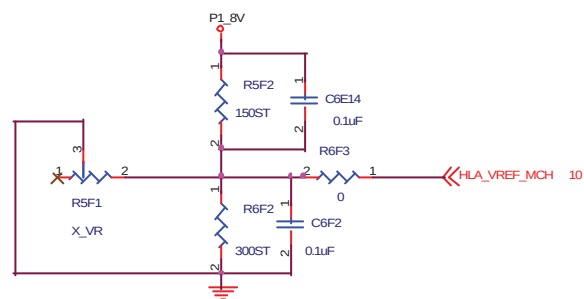
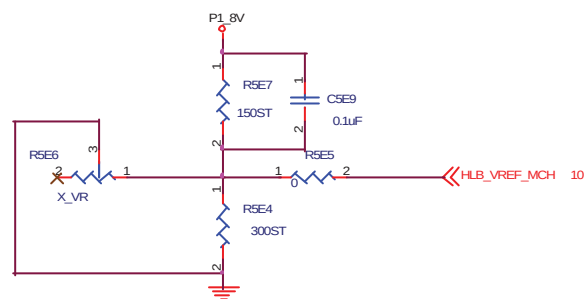
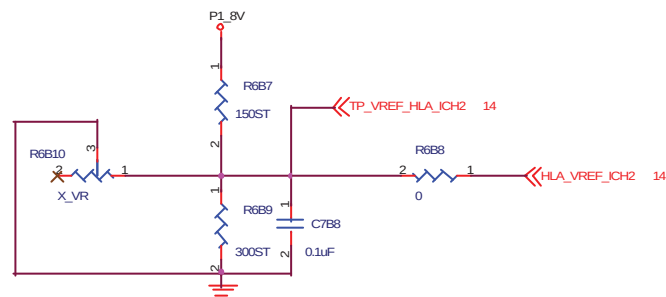
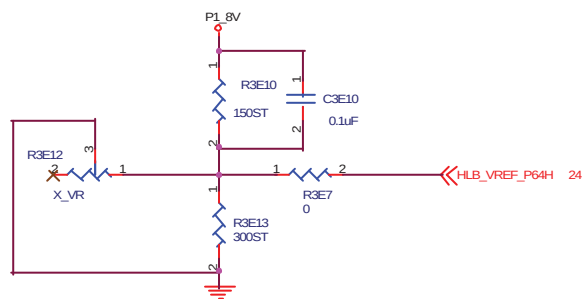
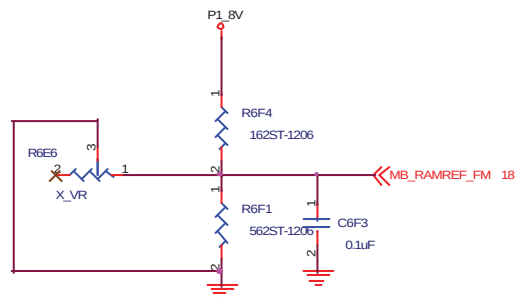
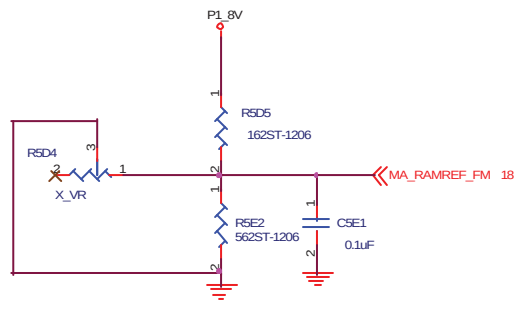
MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret	
Title		Speaker out Mic-in and Line-in	
Document Number		Rev 00	
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001	
Sheet		36 of 56	



MS-6508-00B
0502_1 / 01

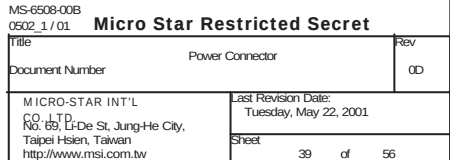
Micro Star Restricted Secret

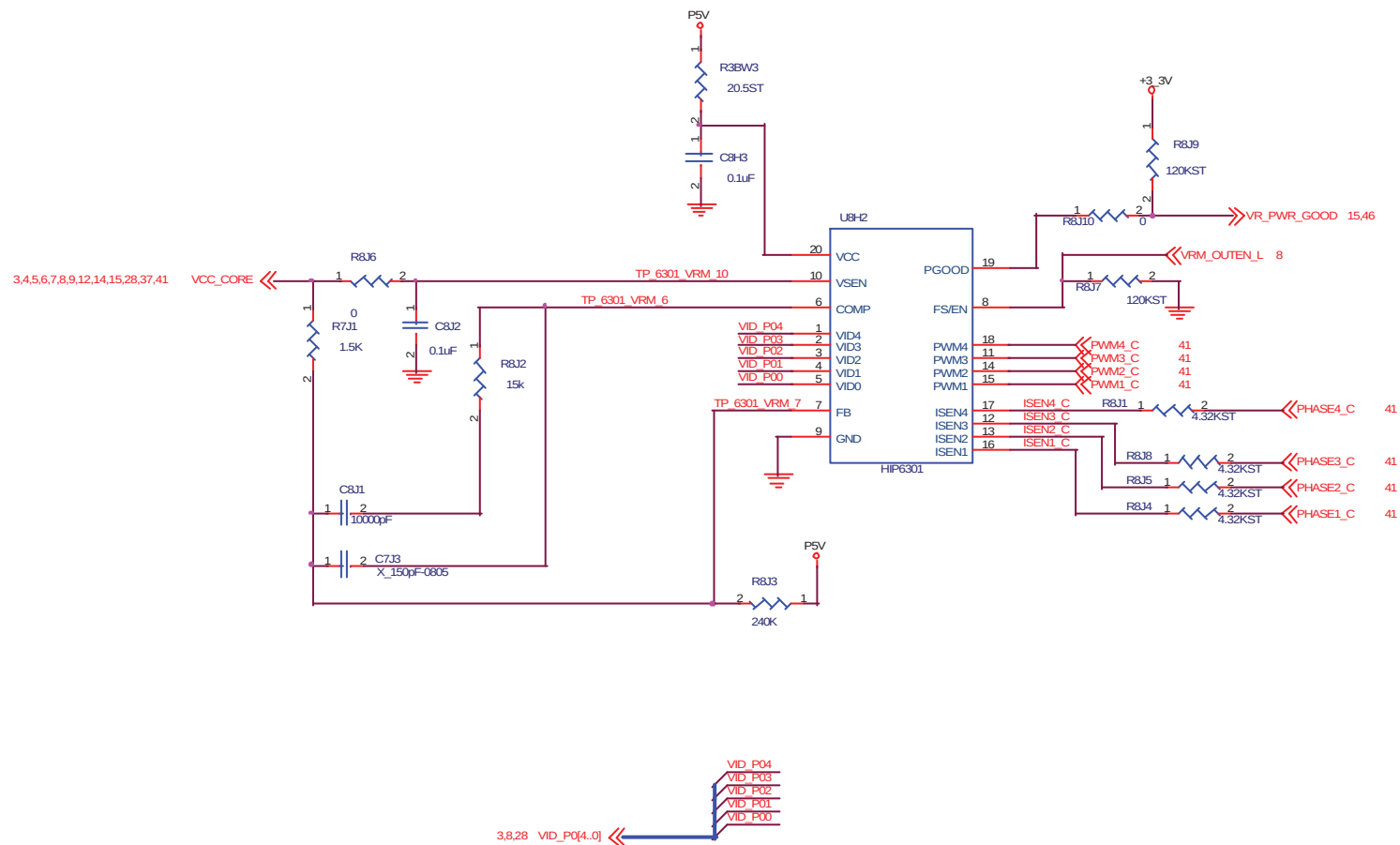
Title	V_Ref	Rev
Document Number		00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001
Sheet		37 of 56



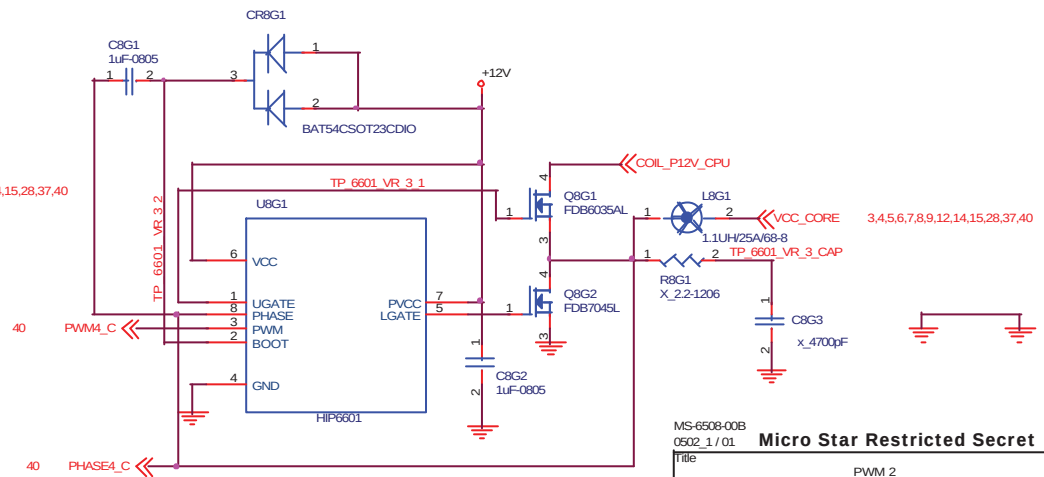
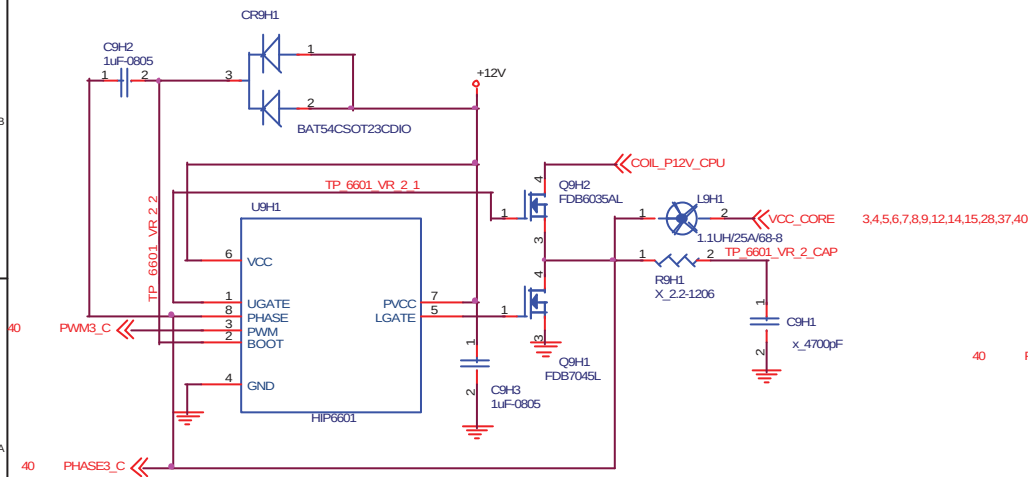
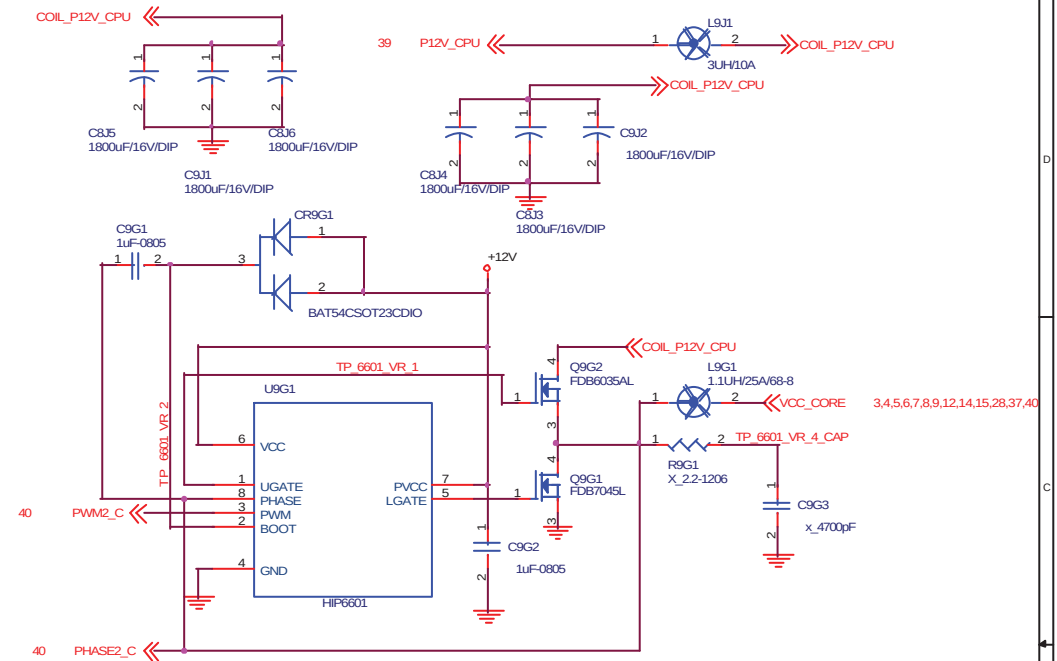
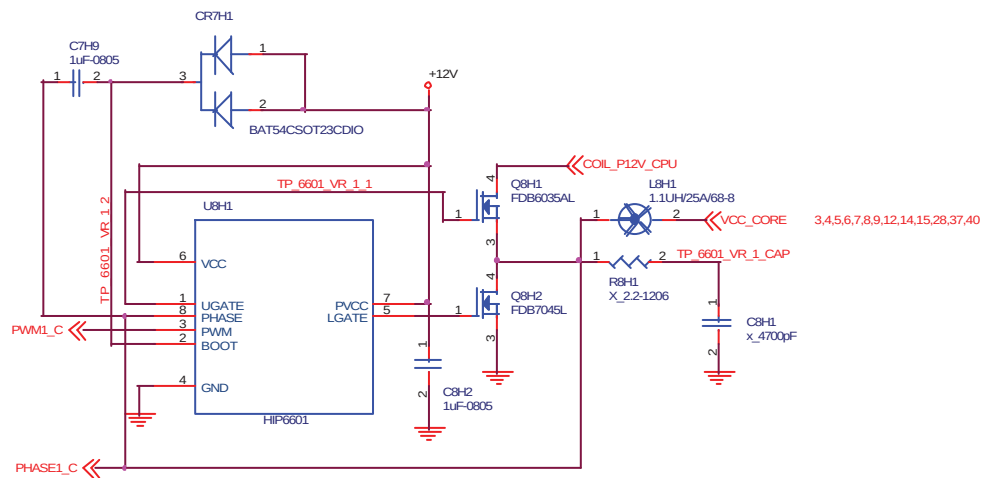
MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret	
Title	V_Ref	Rev	00
Document Number		Last Revision Date: Tuesday, May 22, 2001	
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Sheet 38 of 56	

STANDBY3V Voltage Regulator

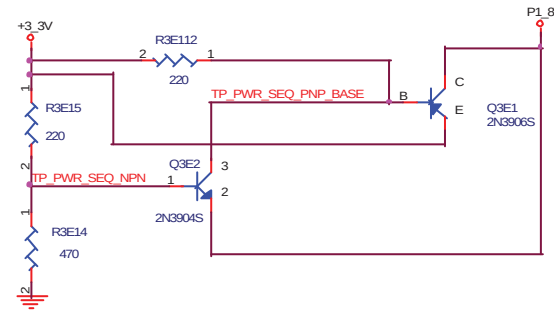
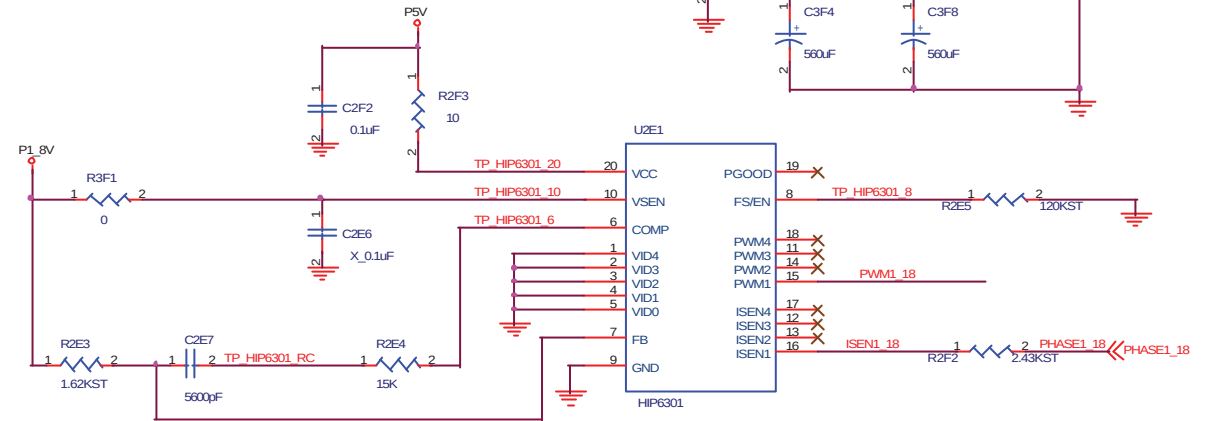
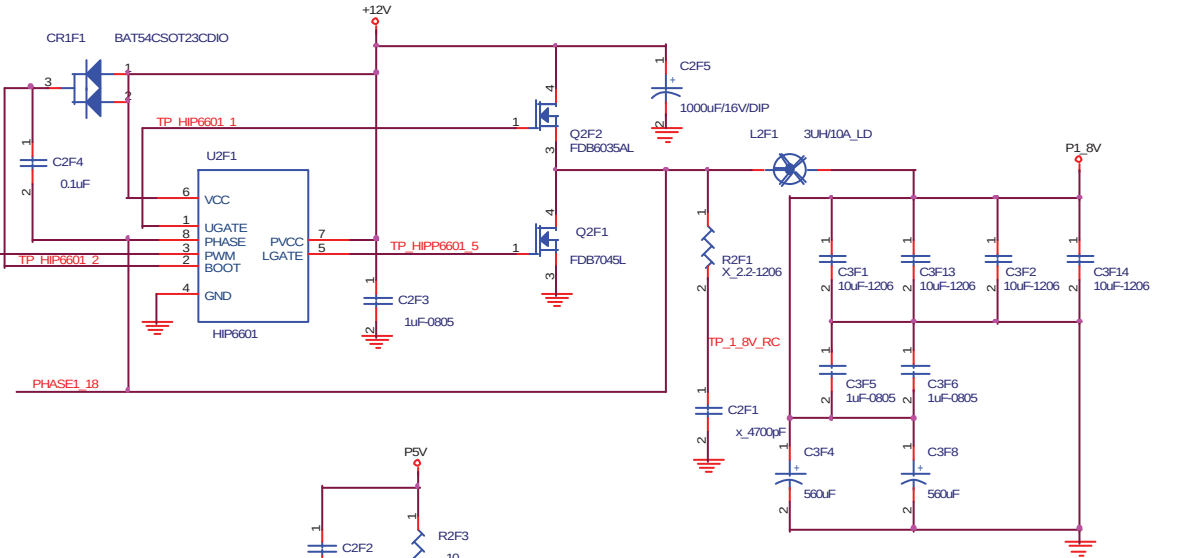
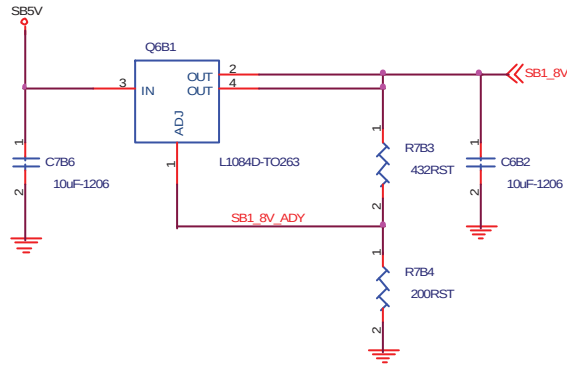
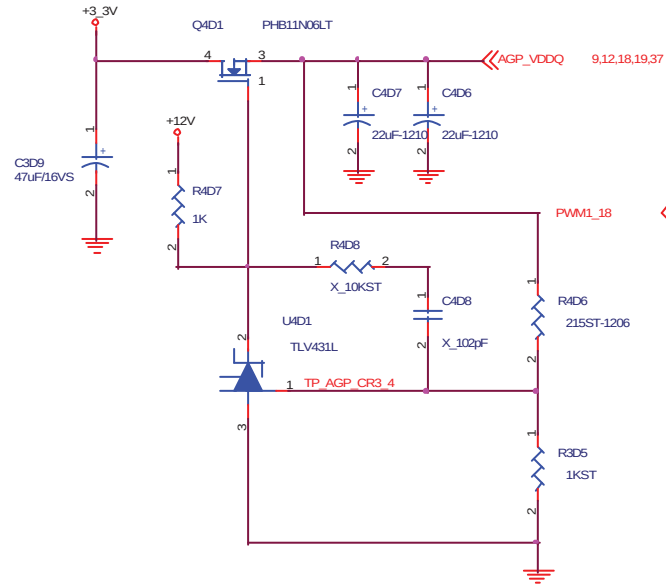




MS-6508-00B 0502_1 / 01			Micro Star Restricted Secret	
Title	PWM 1		Rev	00
Document Number				
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001		
Sheet		40 of 56		

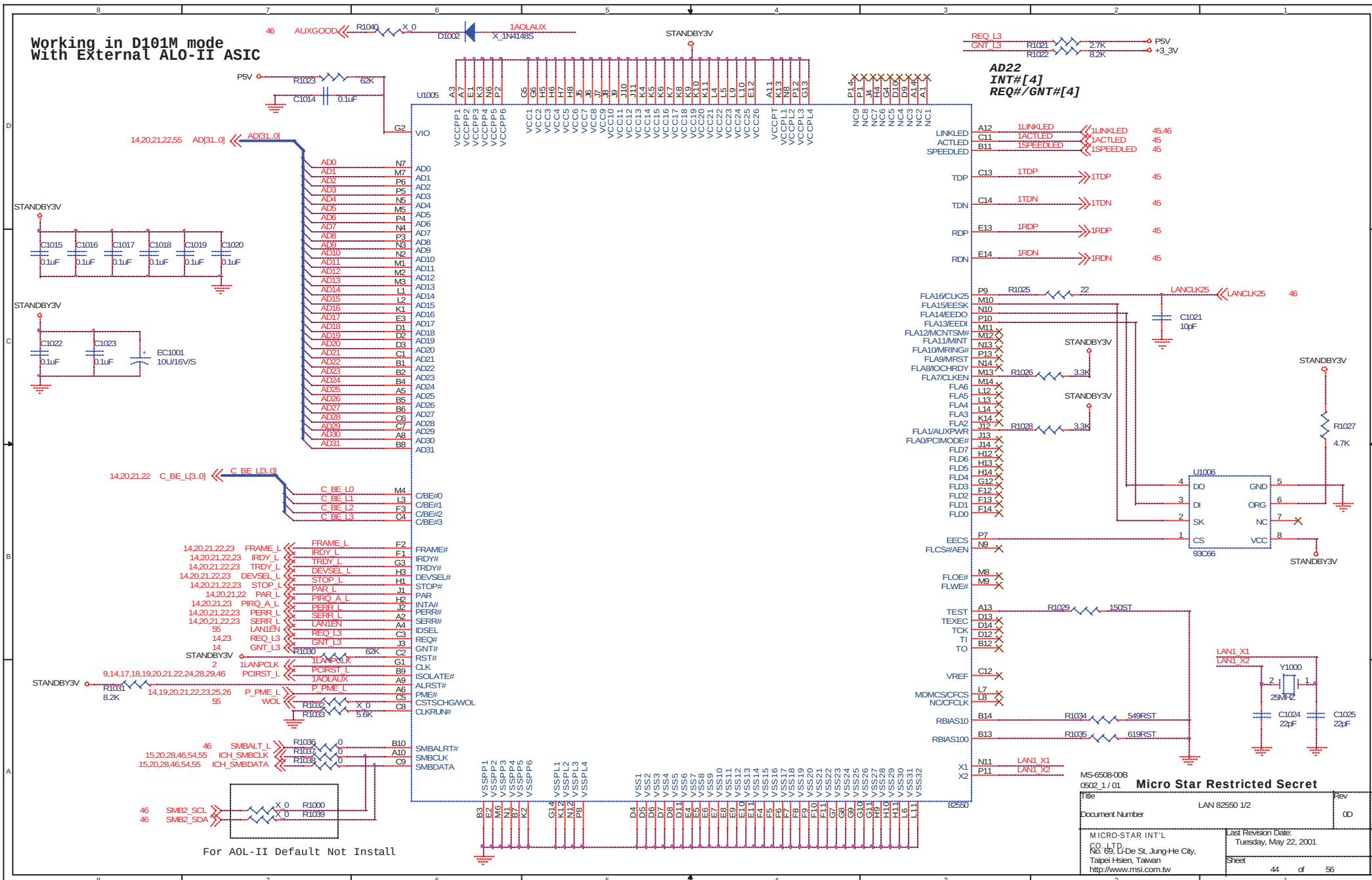


MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret	
Title	PWM 2	Rev	
Document Number		00	
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001	
Sheet		41 of 56	

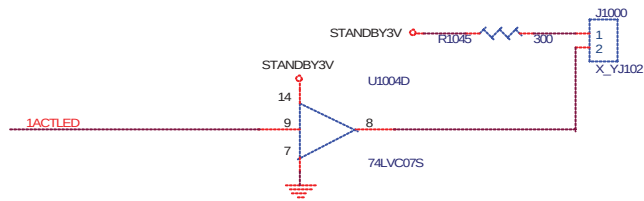
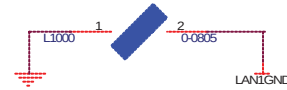
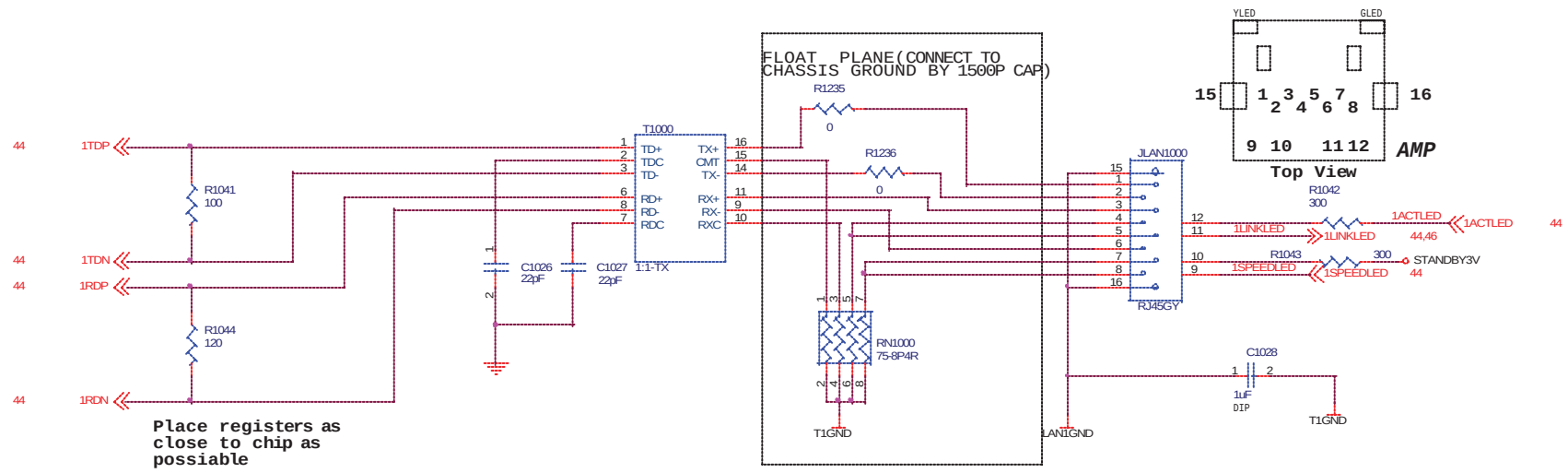


MS-6508-00B 0502_1 / 01			Micro Star Restricted Secret	
Title	Regulator	Rev	00	
Document Number	MICRO-STAR INT'L		Last Revision Date:	
C.O., LTD.		Tuesday, May 22, 2001		Sheet
No. 69, Li-De St, Jung-He City,		Taipei Hsien, Taiwan		42 of 56
http://www.msi.com.tw				

Working in D101M mode With External ALO-II ASIC

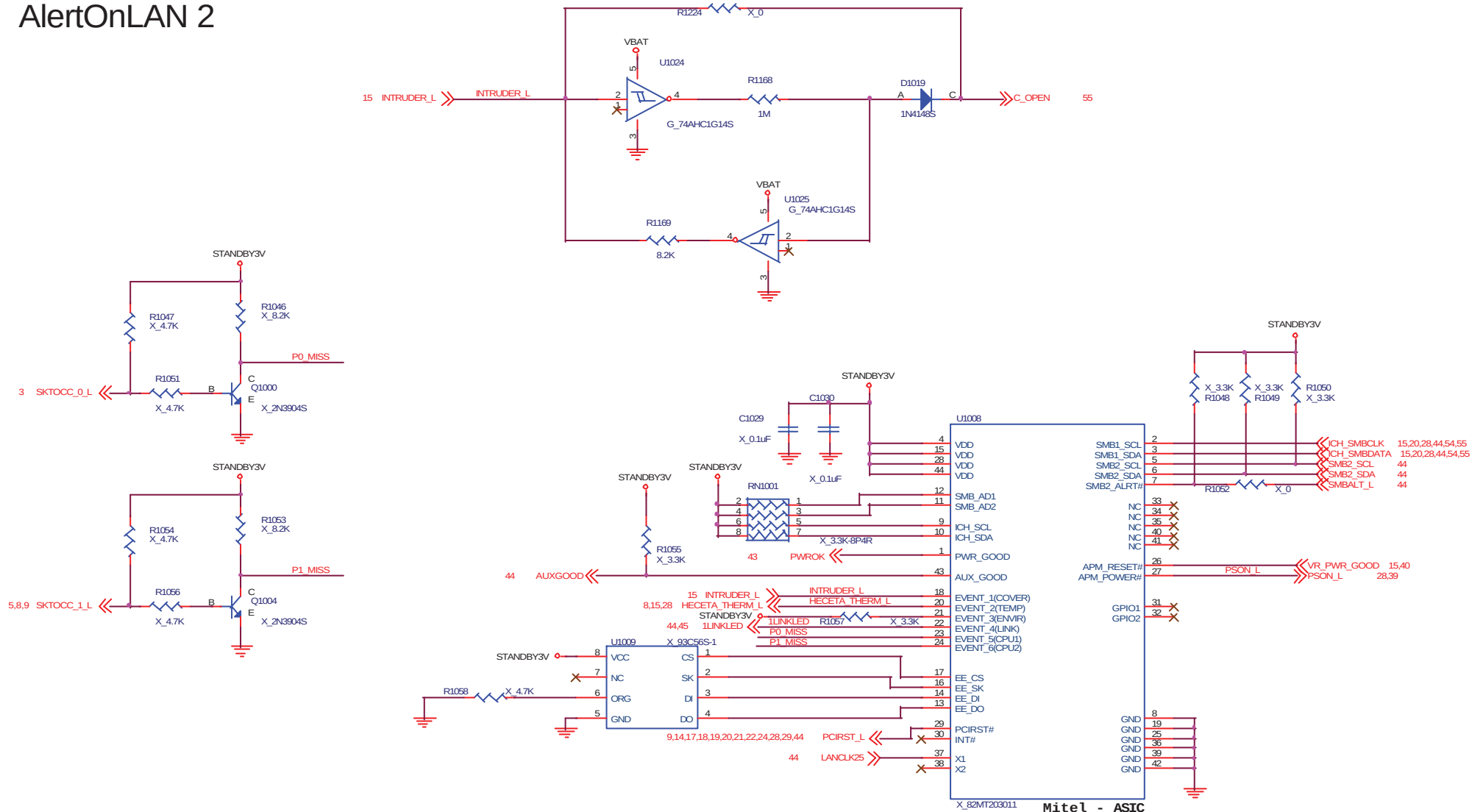


MS-6508-00B		0502_1/01		Micro Star Restricted Secret	
Title		LAN 82550 1/2		Rev	
Document Number				00	
MICRO-STAR INT'L		Last Revision Date:			
CO., LTD.		Tuesday, May 22, 2001			
No. 69, G-De St, Jung-He City,		Sheet			
Taipei Hsien, Taiwan		44		of 56	
http://www.msi.com.tw					

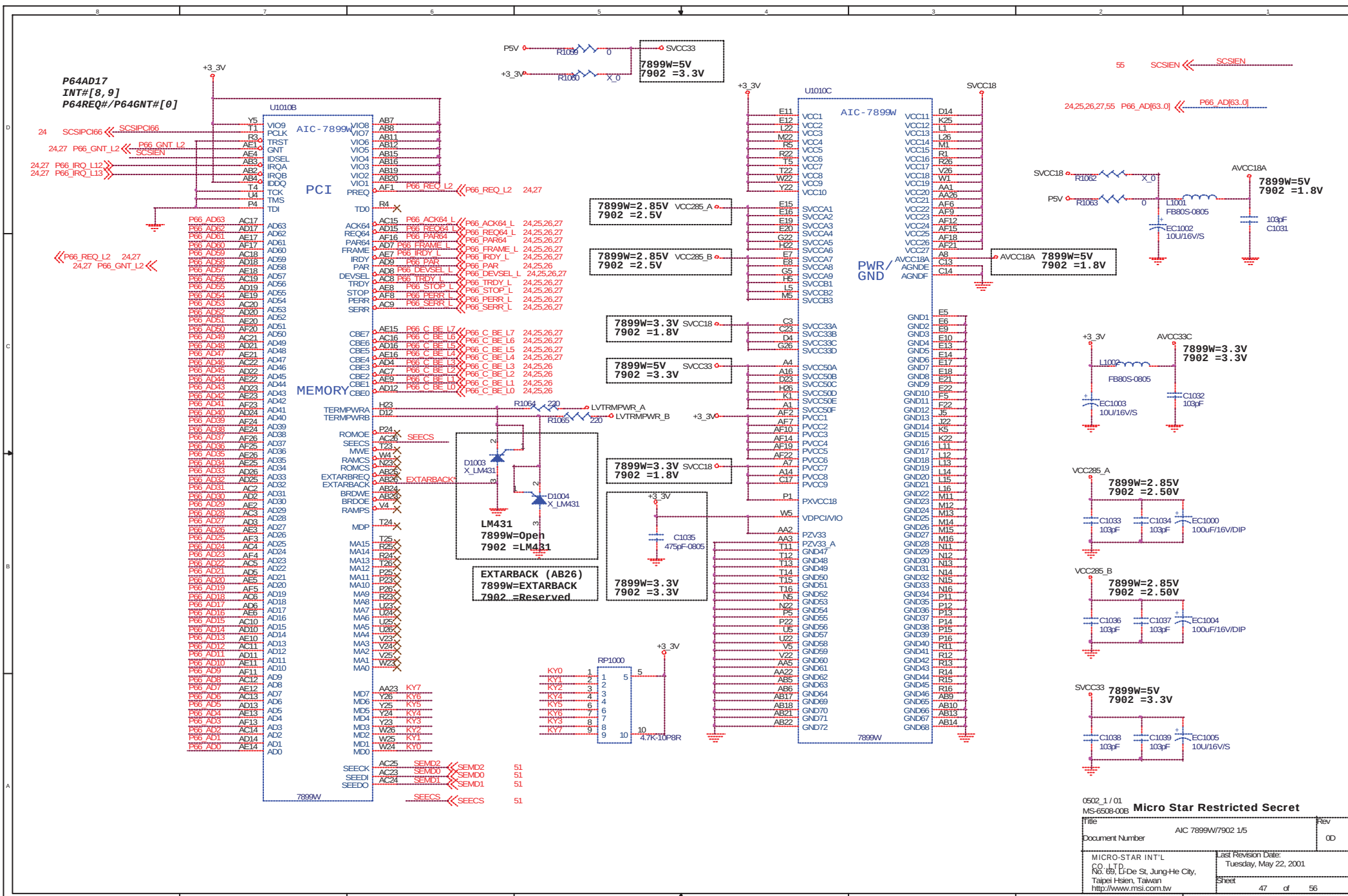


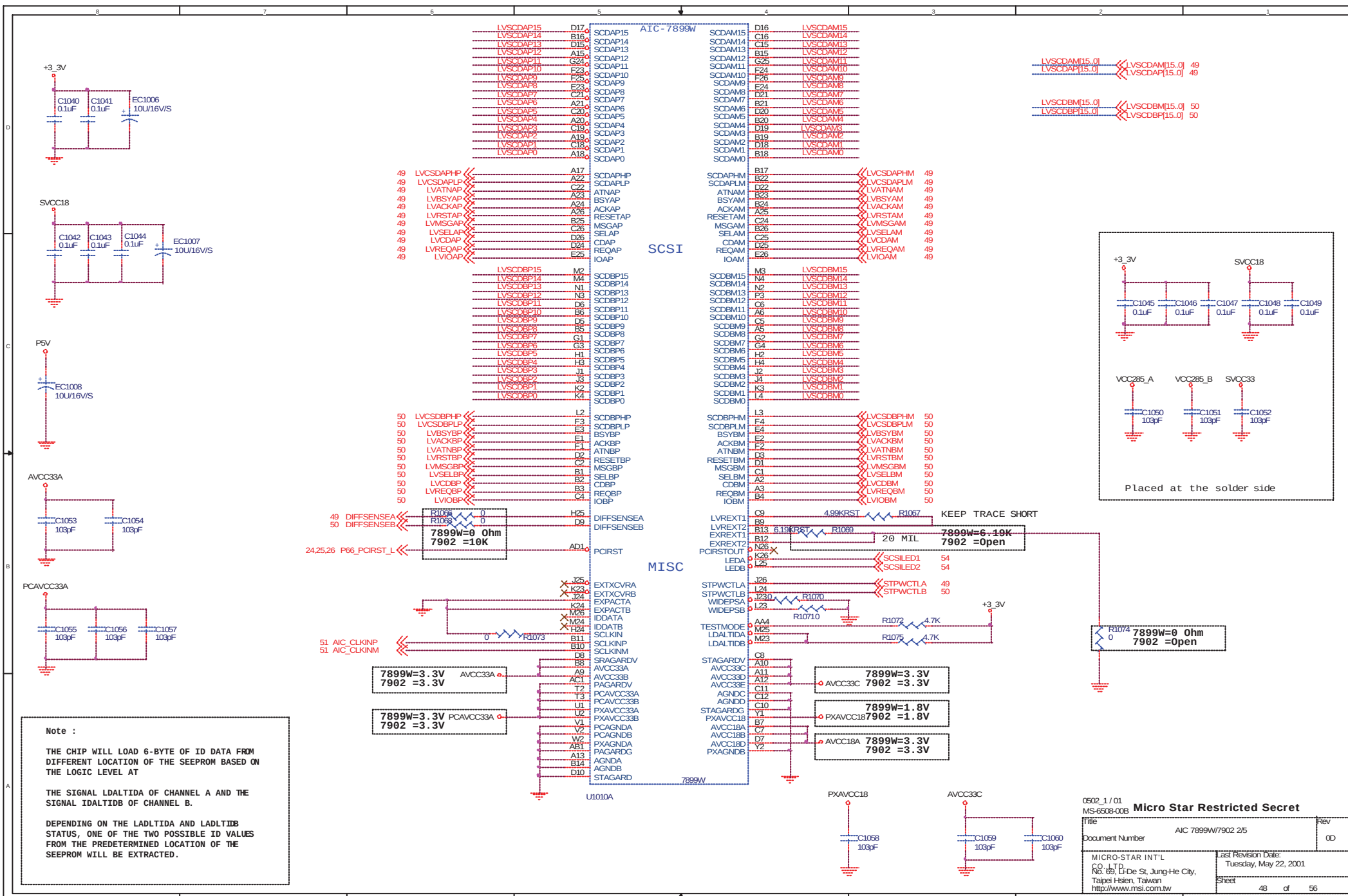
0502_1 / 01 MS-6508-00B		Micro Star Restricted Secret	
Title	LAN 82550 2/2	Rev	00
Document Number		Last Revision Date: Tuesday, May 22, 2001	
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Hsi City, Taipei Hsien, Taiwan http://www.msi.com.tw		Sheet 45 of 56	

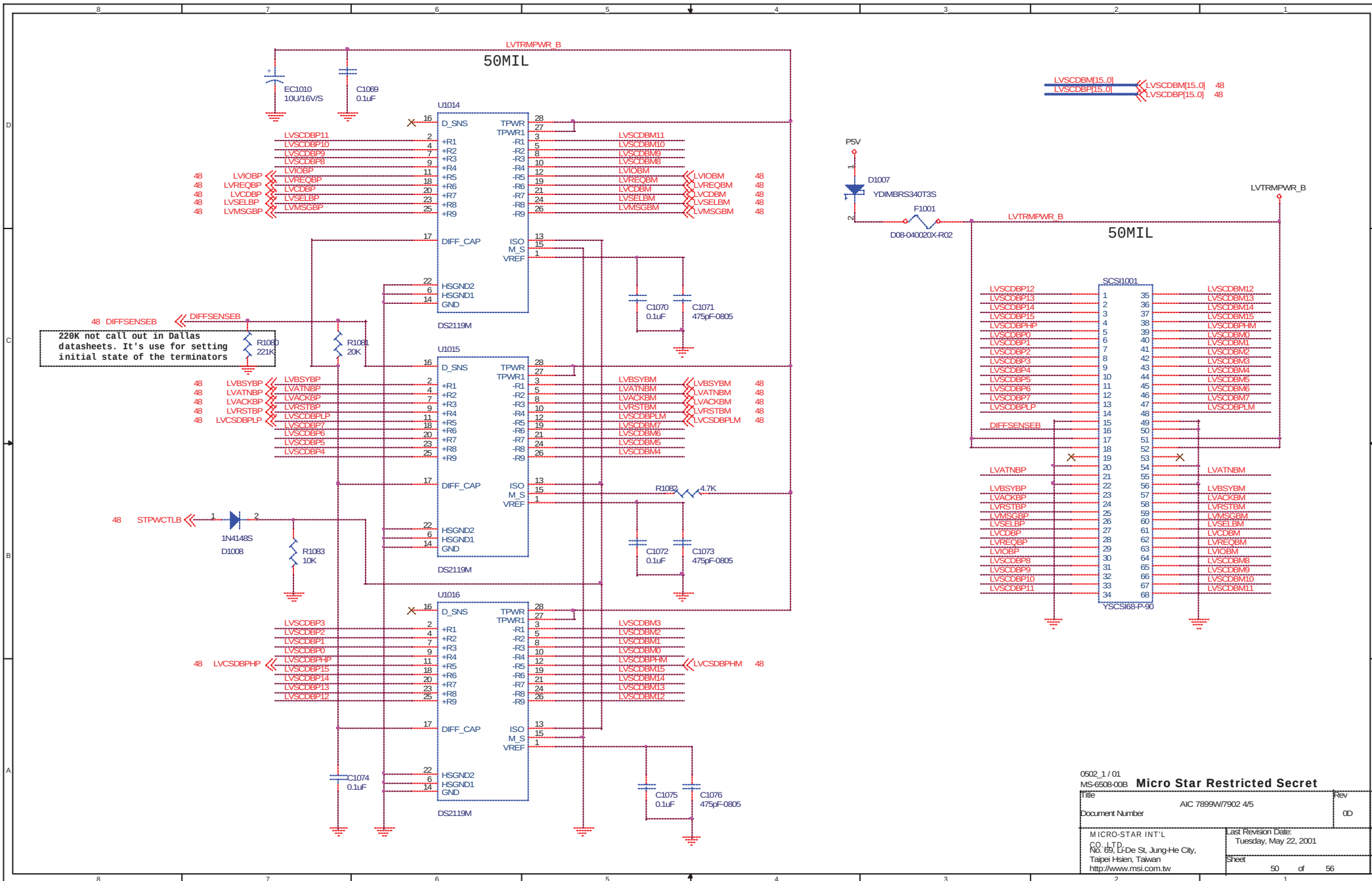
AlertOnLAN 2

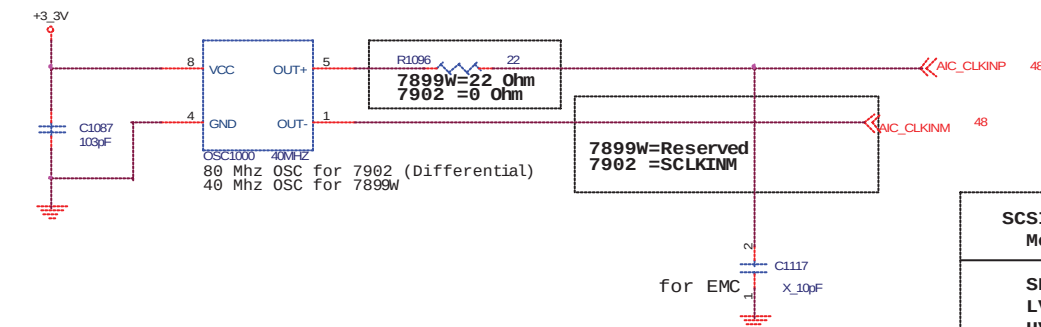
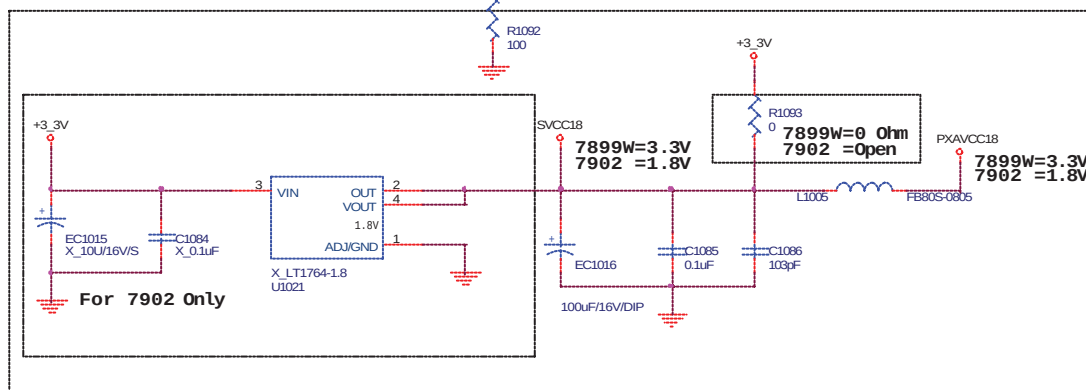
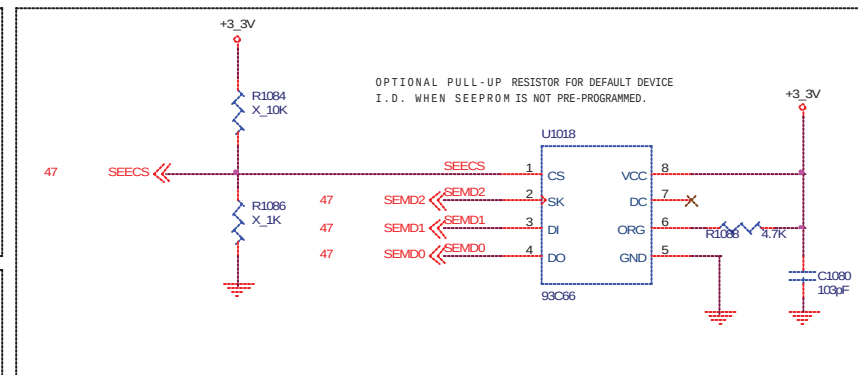
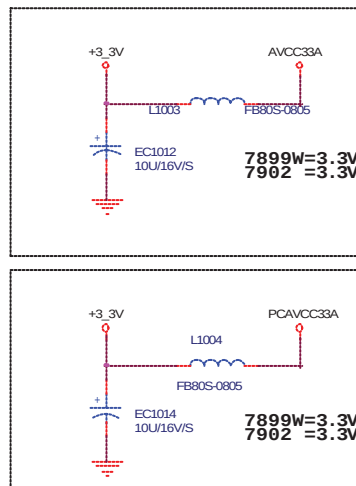
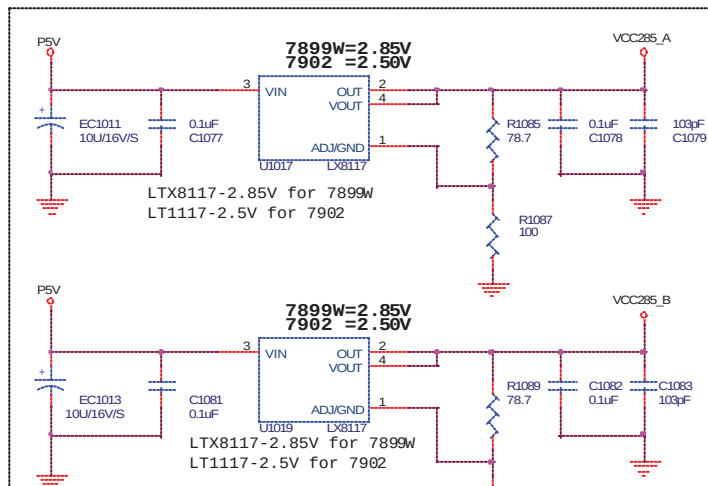


0502_1 / 01 MS-6508-00B		Micro Star Restricted Secret	
Title	LAN 82550 (AOL-II)	Rev	00
Document Number			
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-He City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001	
Sheet		46 of 56	









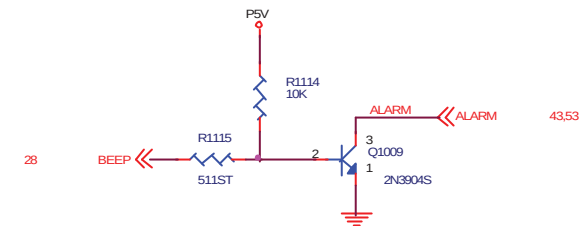
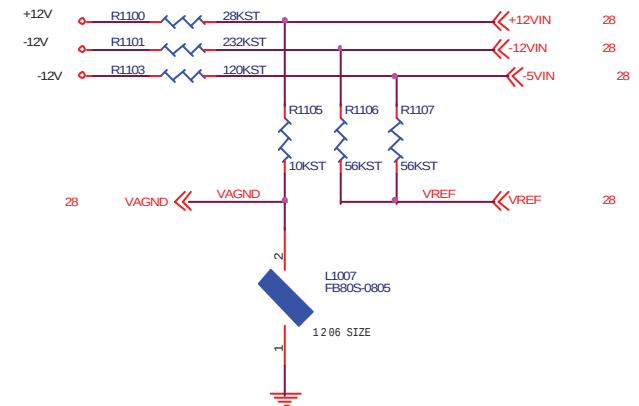
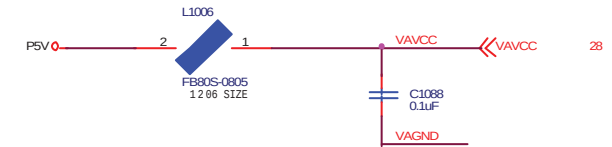
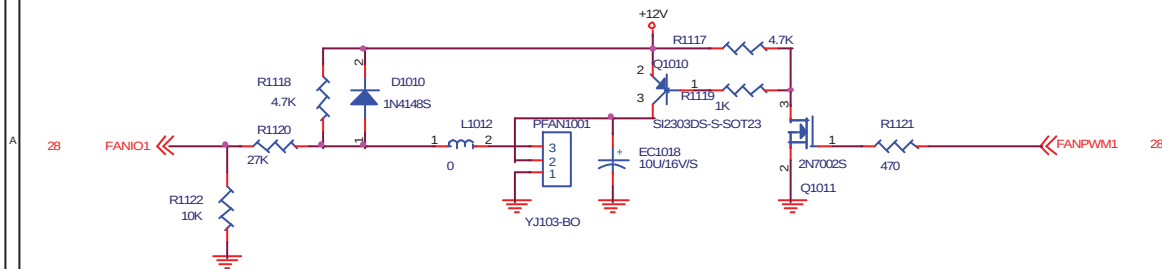
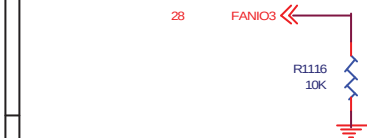
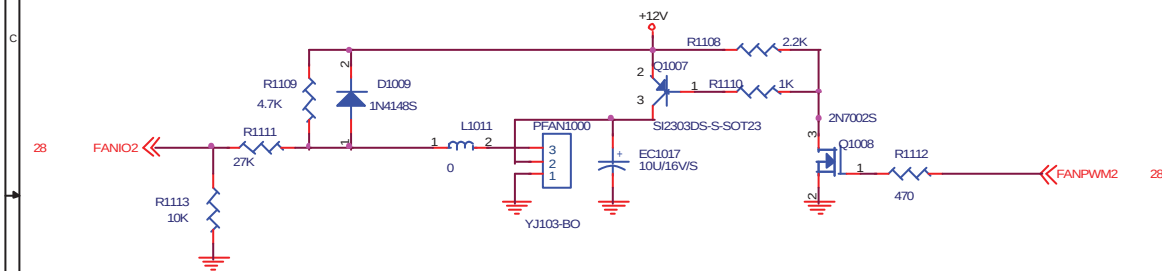
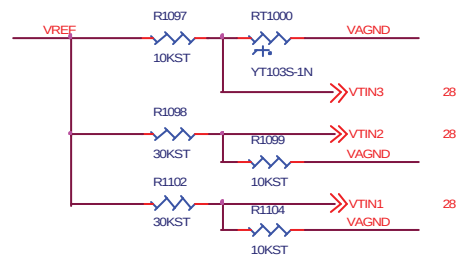
SCSI ASIC Voltage	AIC7902		AIC7899W	
	Current (A)	Power (W)	Current (A)	Power (W)
1 x 1.8V	TBD	TBD	N/A	N/A
2 x 2.5V	TBD	TBD	N/A	N/A
2 x 2.85V	N/A	N/A	0.630	1.796
1 x 3.3V	TBD	TBD	0.477	1.574
1 x 5V	N/A	N/A	0.043	0.215
Total		TBD		3.59

SCSI Bus Mode	Diffsense Signal Voltage Range(V)	Maximum SCSI Transfer Rate
SE	-0.35 to 0.5	40MB/Sec
LVD	0.7 to 1.9	320MB/Sec
HVD	2.4 to 5.5	40MB/Sec

0502_1/01 MS-6508-00B		Micro Star Restricted Secret	
Title	AIC 7899W/7902 5/5		Rev
Document Number			00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001	
Sheet		51 of 56	

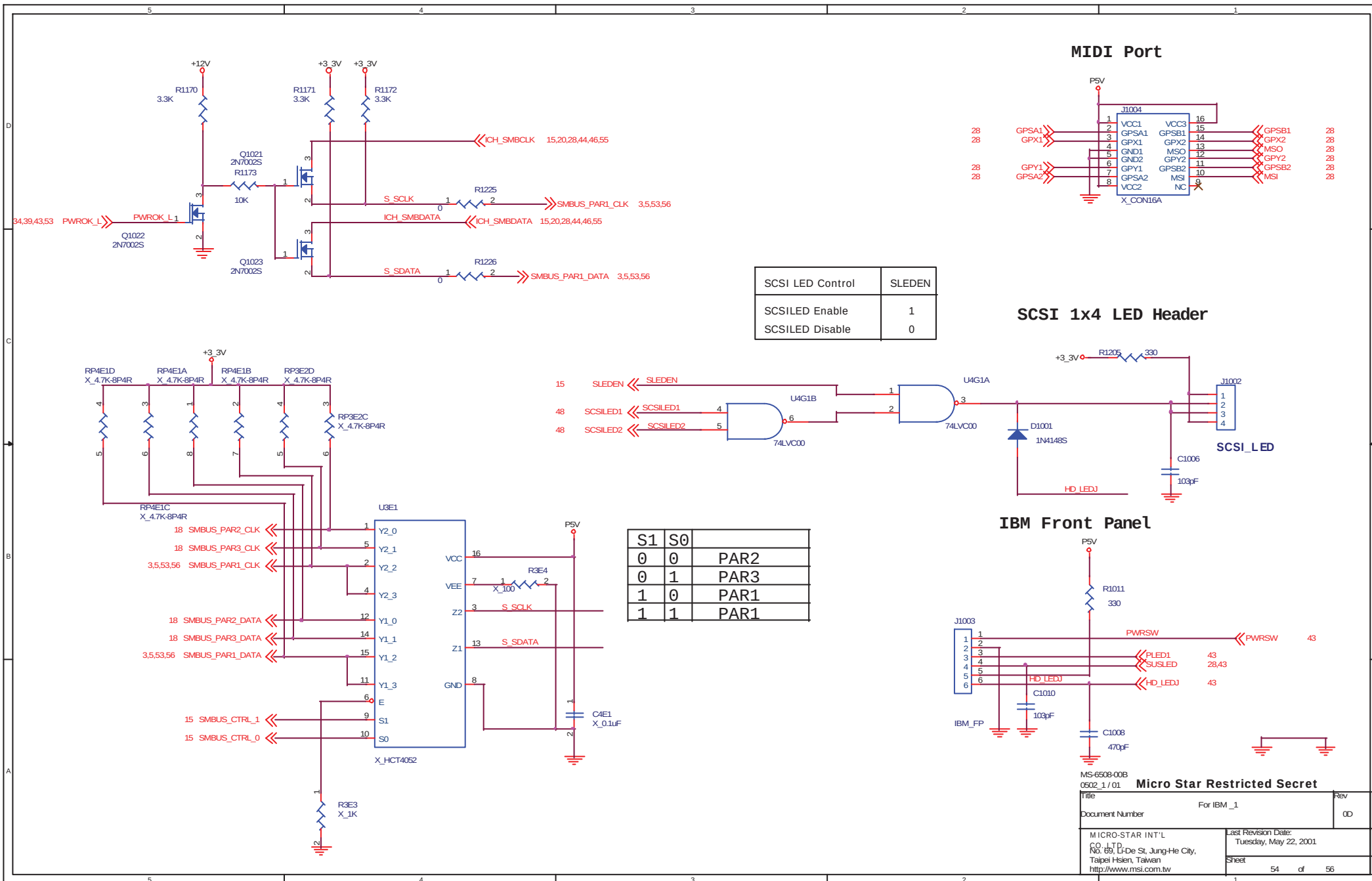
LPC Hardware Monitor

D
C
B
A

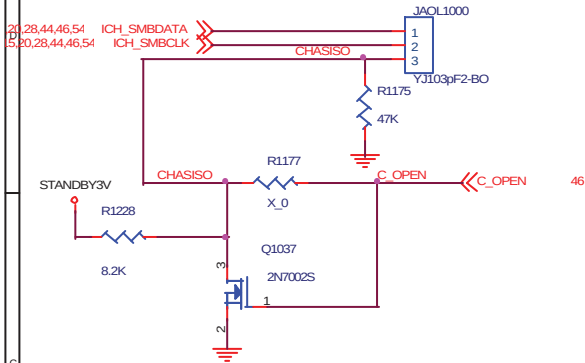


MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret	
Title	LPC Hardware Monitor		Rev
Document Number			00
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Last Revision Date: Tuesday, May 22, 2001	
Sheet		52 of 56	

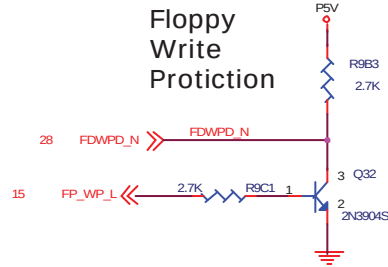
D
C
B
A



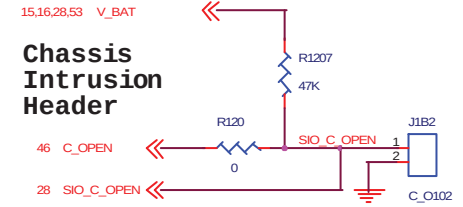
AOL1 Header



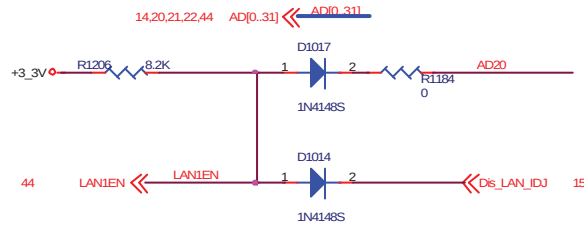
Floppy Write Protection



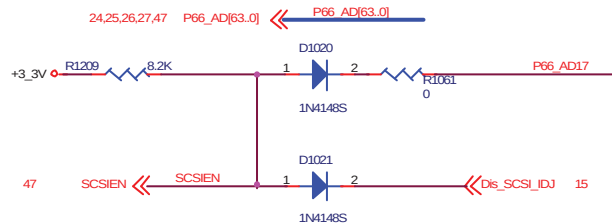
Chassis Intrusion Header



Disable On Board LAN

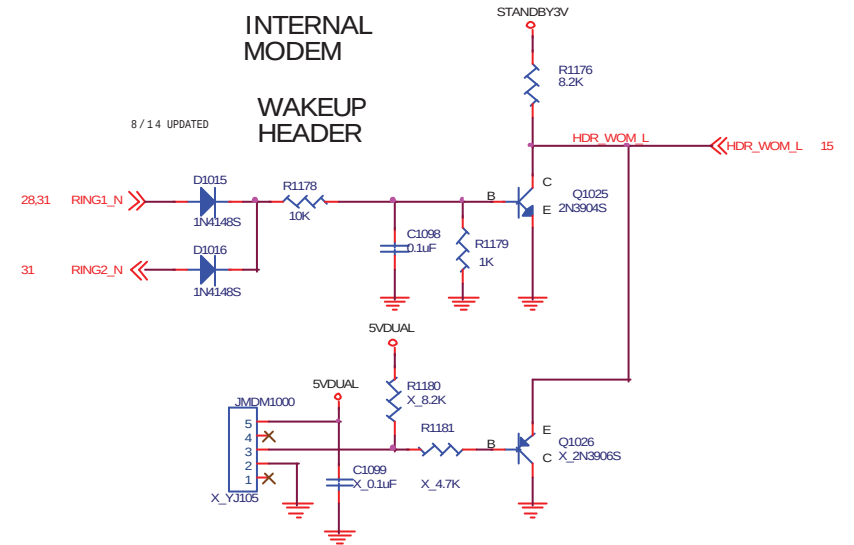


Disable On Board SCSI

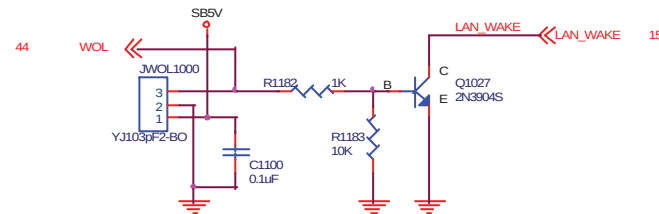


INTERNAL MODEM

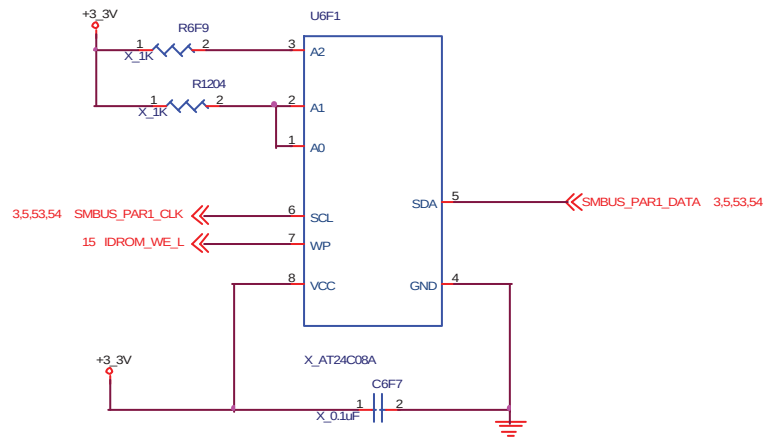
WAKEUP HEADER



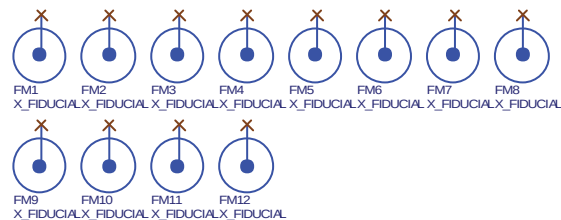
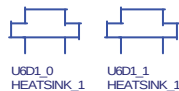
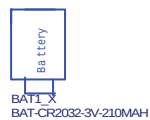
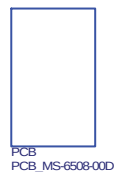
Wakeup On LAN Header



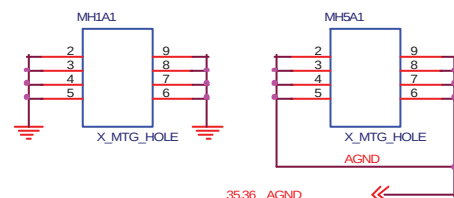
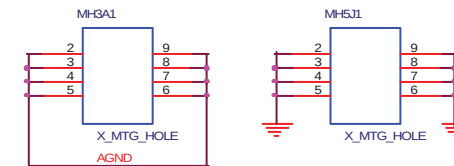
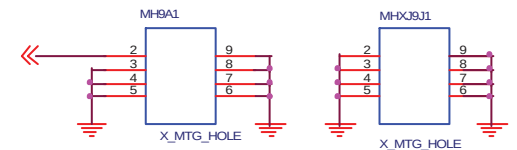
MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret	
File	For IBM_2	Rev	00
Document Number		Last Revision Date:	
MICRO-STAR INT'L		Tuesday, May 22, 2001	
CO., LTD.		Sheet	
No. 69, Li-De St, Jung-He City, Taipei Hsien, Taiwan		55 of 56	
http://www.msi.com.tw			



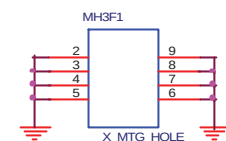
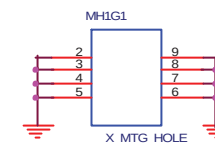
SMBUS ADDR : AC



30,31,32,33 IO_GND



35,36 AGND



MS-6508-00B 0502_1 / 01		Micro Star Restricted Secret	
Title	...	Rev	00
Document Number		Last Revision Date: Tuesday, May 22, 2001	
MICRO-STAR INT'L CO., LTD. No. 69, Li-De St, Jung-Ho City, Taipei Hsien, Taiwan http://www.msi.com.tw		Sheet 56 of 56	