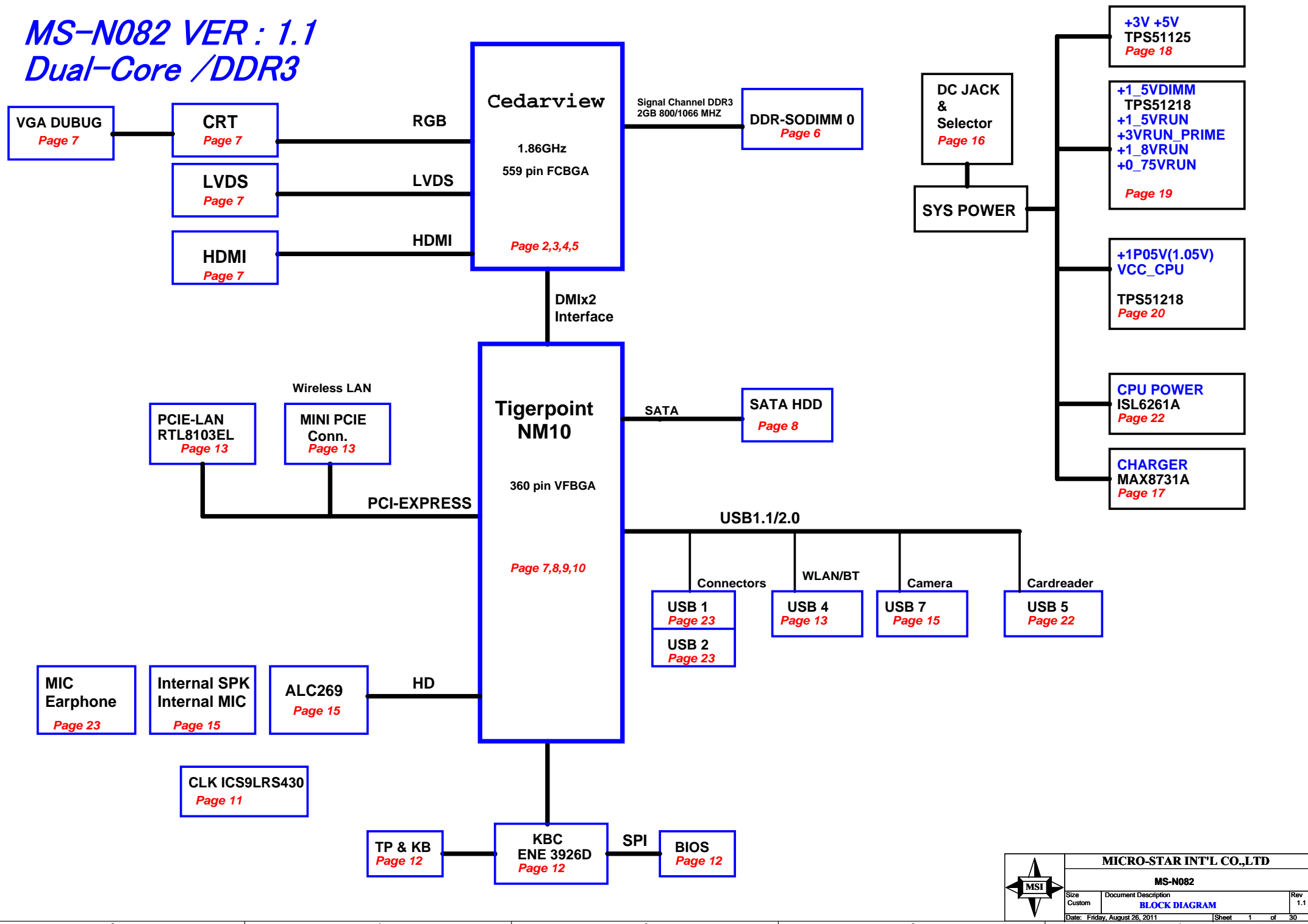
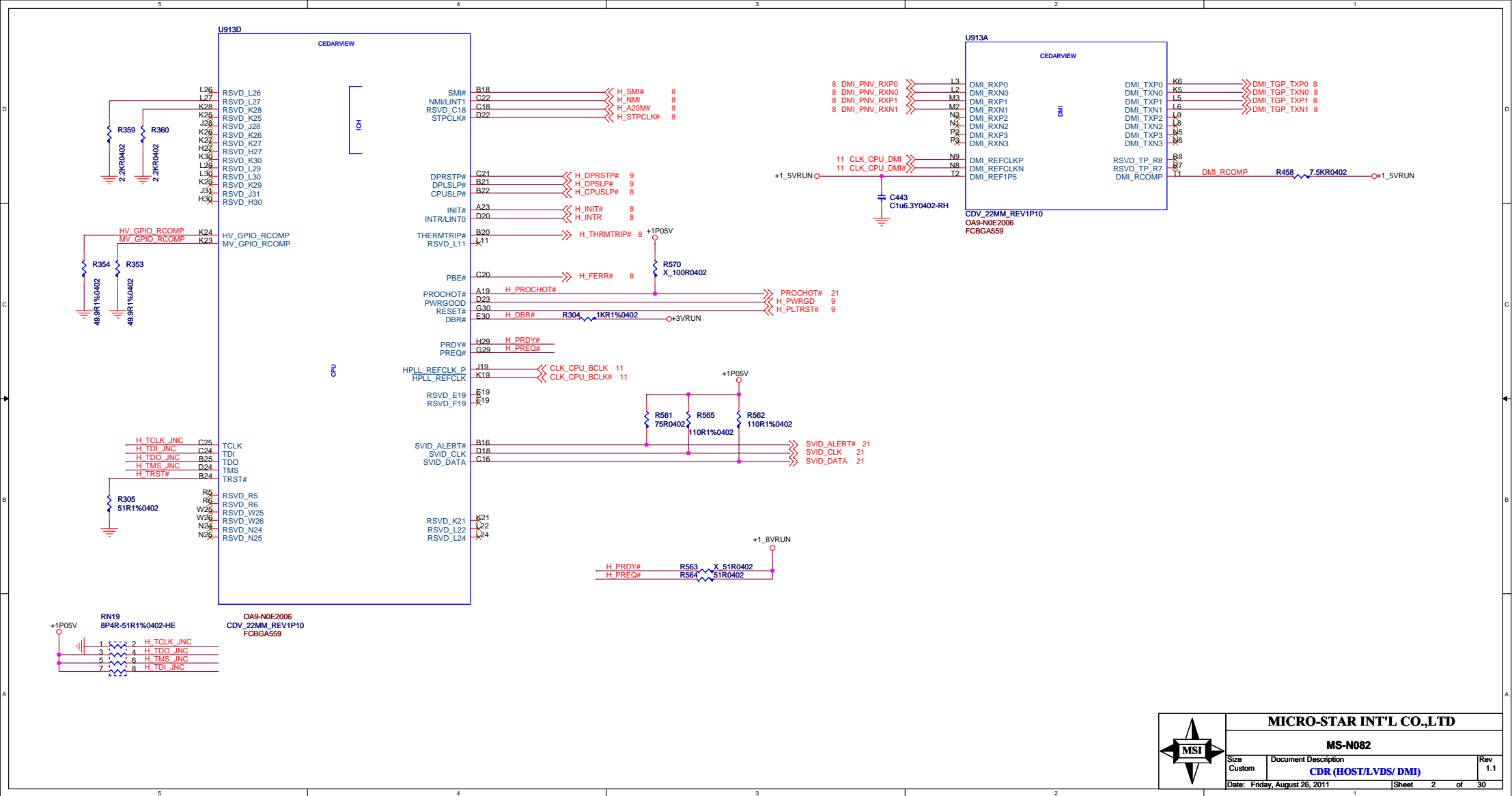


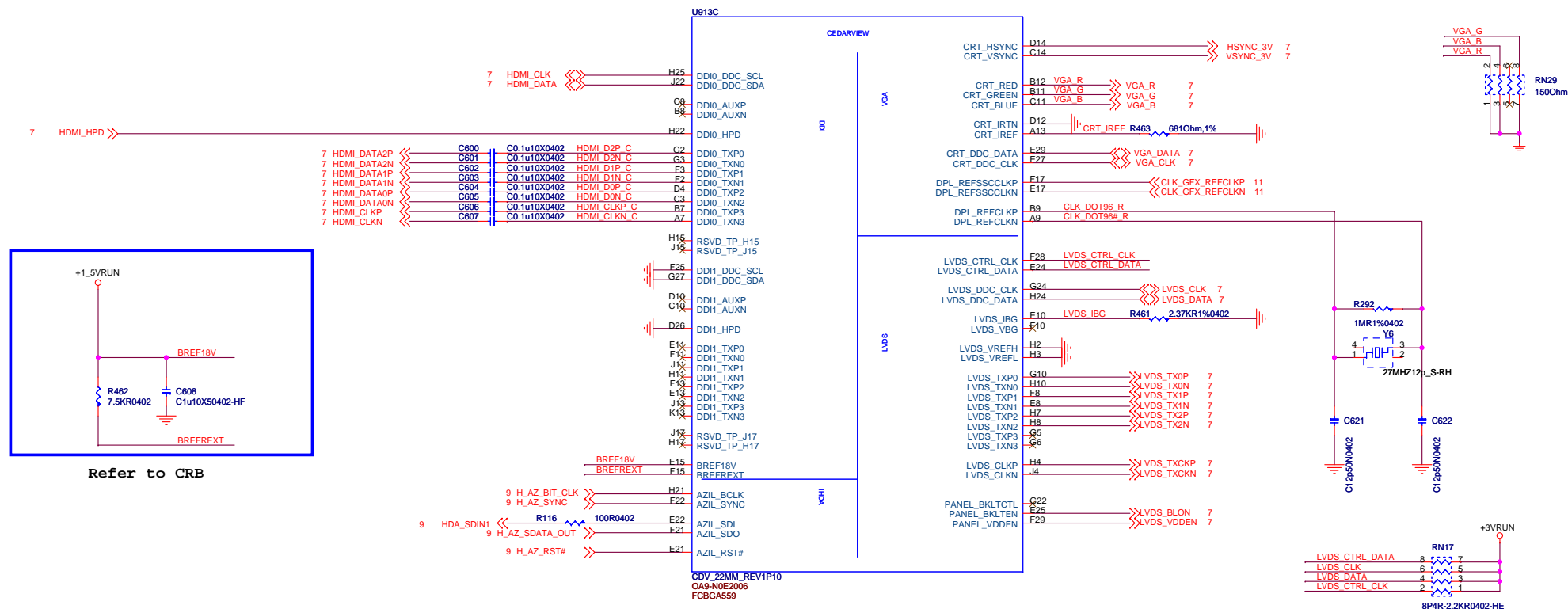
MS-N082 VER : 1.1

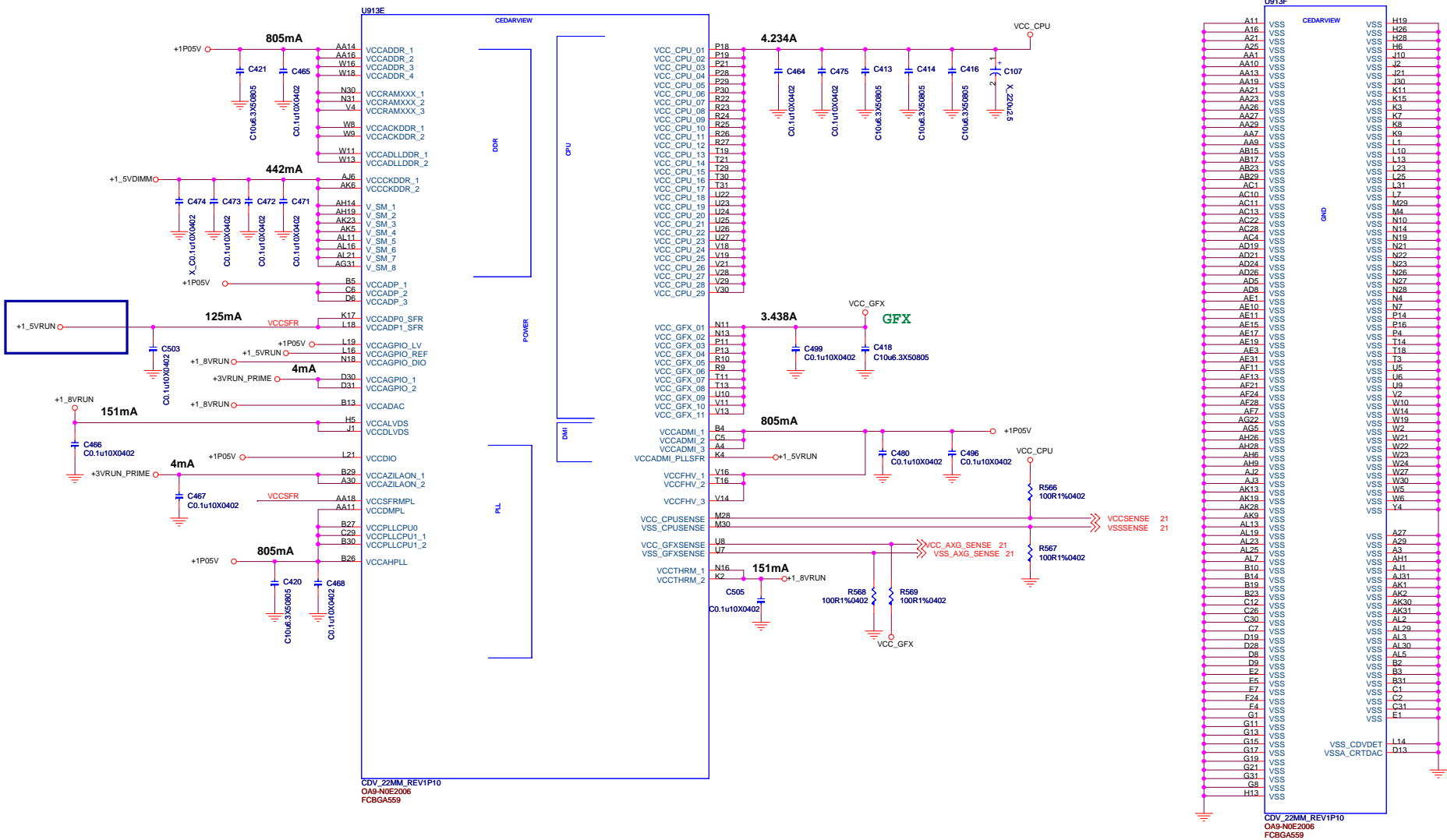
Dual-Core /DDR3



MICRO-STAR INT'L CO.,LTD		
MS-N082		
Size Custom	Document Description BLOCK DIAGRAM	Rev 1.1
Date: Friday, August 26, 2011	Sheet 1 of 30	

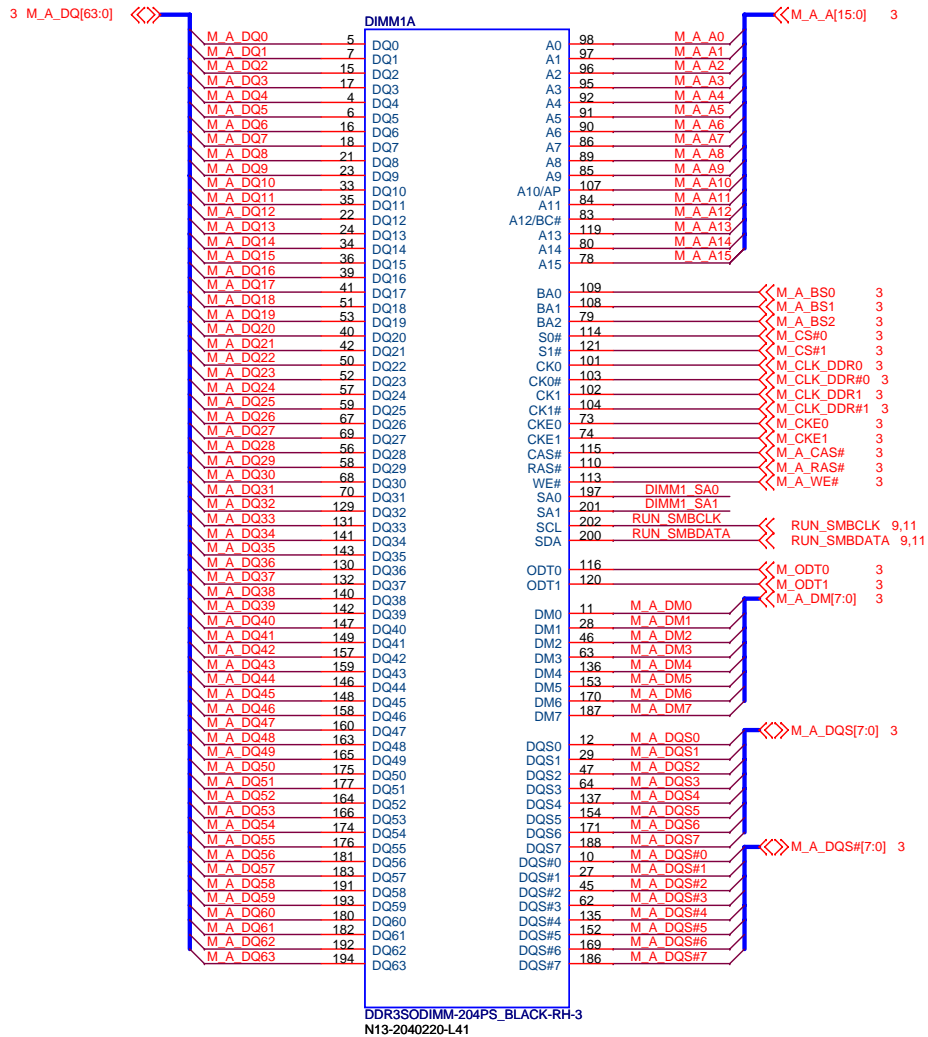






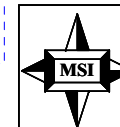
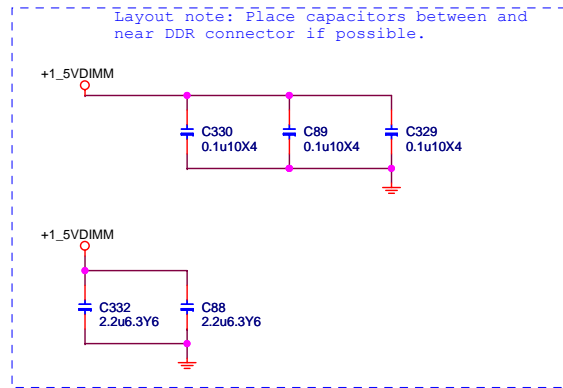
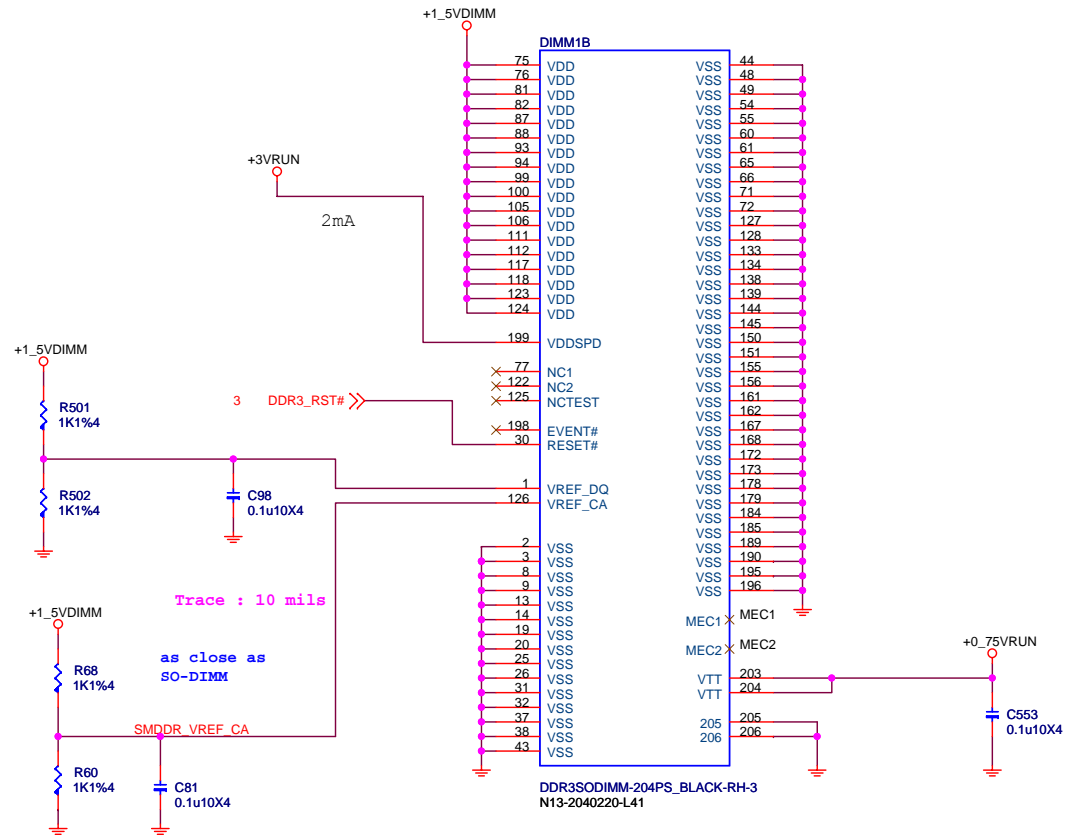
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MICRO-STAR INT'L CO.,LTD			
MS-N082			
Size	Document Description	Rev	
Custom	CDR Power	1.1	
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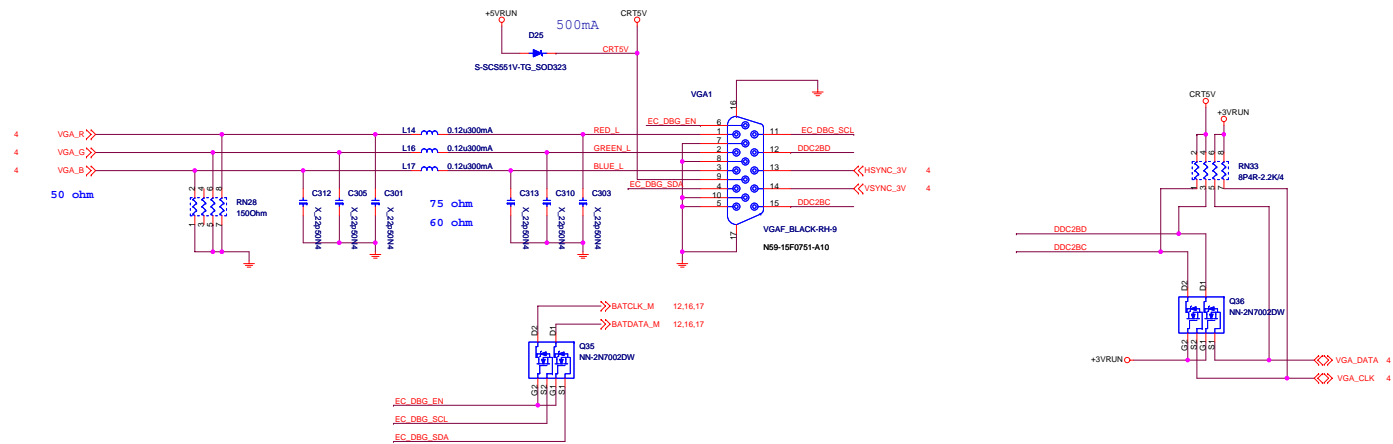
ADDRESS: 000

0xA0

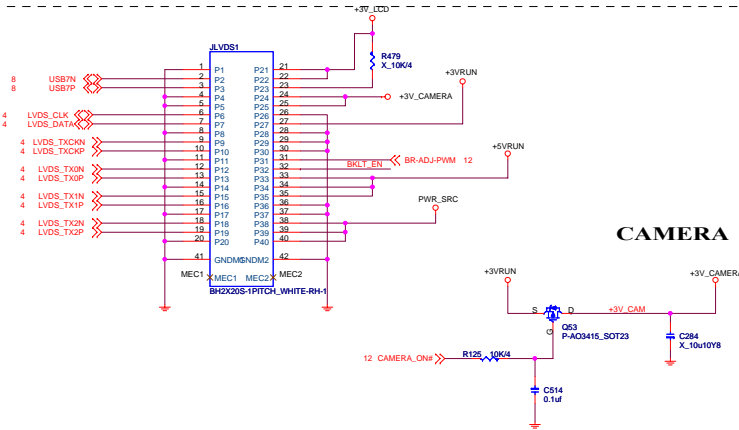
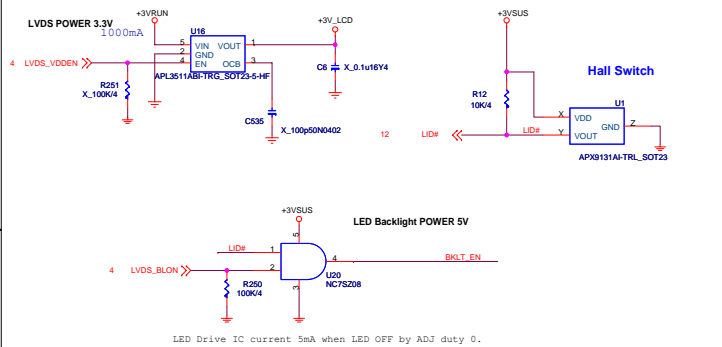


MICRO-STAR INT'L CO.,LTD		
MS-N082		
Size B	Document Description	Rev 1.1
DDR SODIMM1		
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VGA CONN.

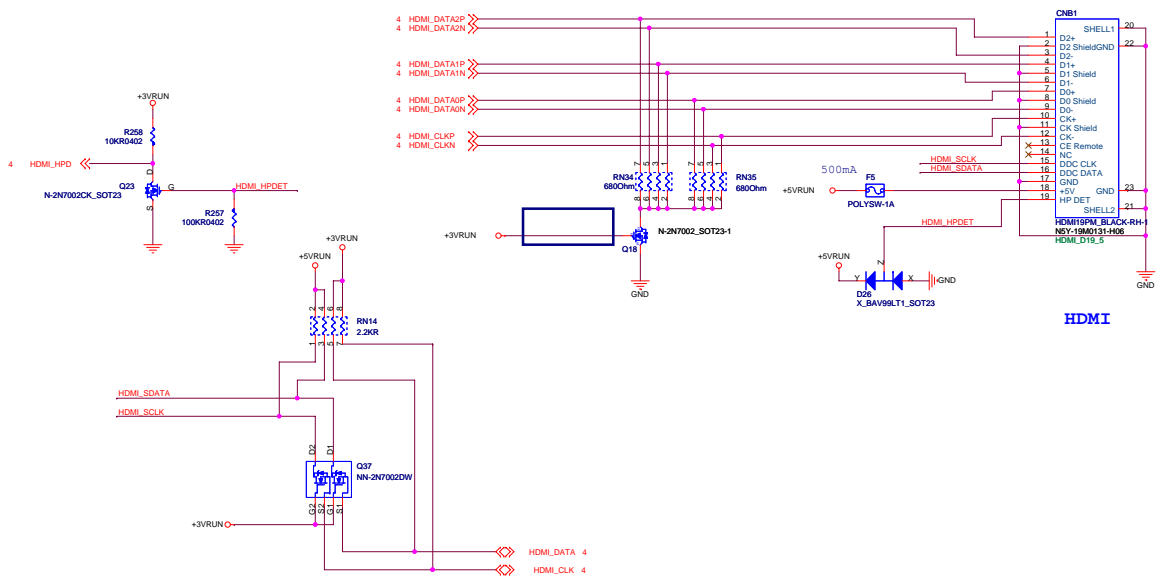


LVDS CONN.



HDMI CONN.

HDMI Connector



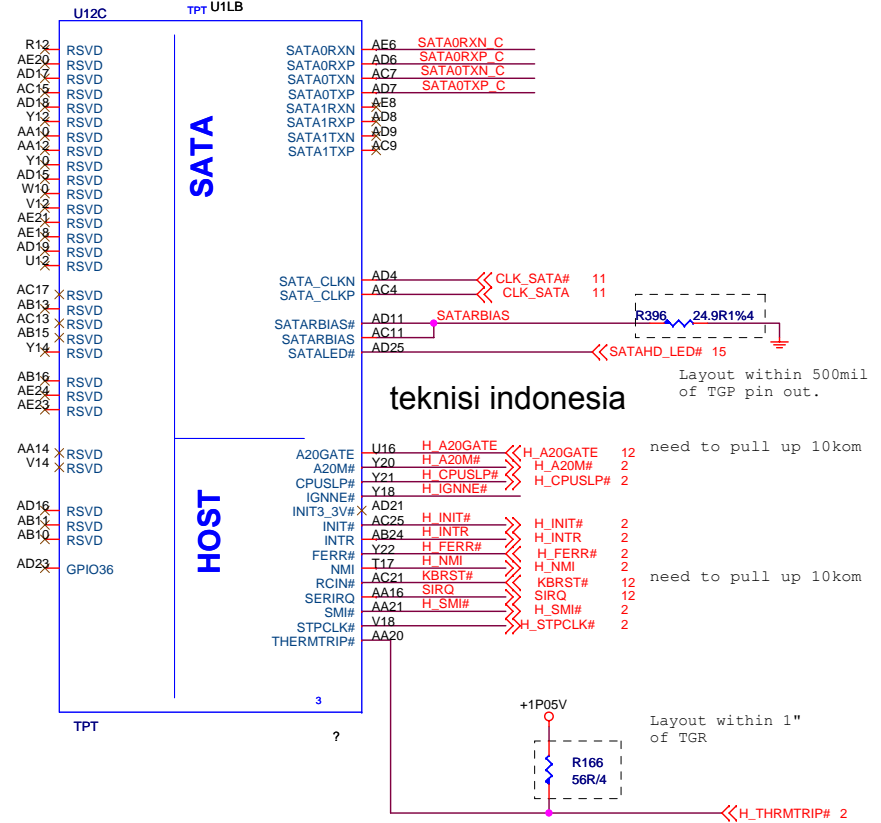
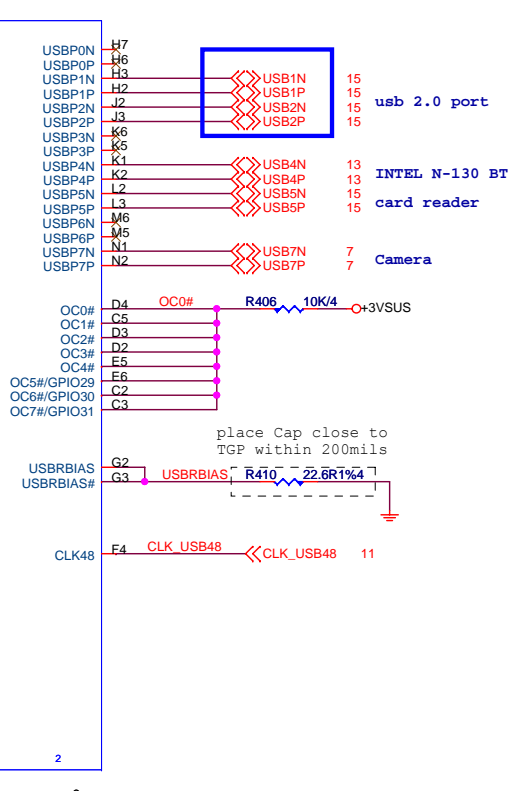
MICRO-STAR INT'L CO.,LTD

MS-N082

CRT, LVDS CONN

Rev	1.0
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[illegible]

SATA HDD

SATA21
SATA22PF_BLACK-RH-4

close_SATA_Connector

S1 SATA0TXP C253 0.01u16X4 SATA0TXP C
S2 SATA0TXN C254 0.01u16X4 SATA0TXN C
S3
S4
S5 SATA0RXN C255 0.01u16X4 SATA0RXN C
S6 SATA0RXP C256 0.01u16X4 SATA0RXP C
S7

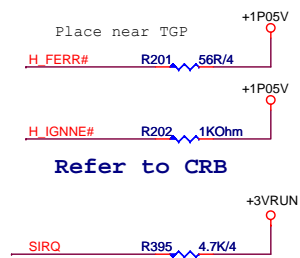
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15

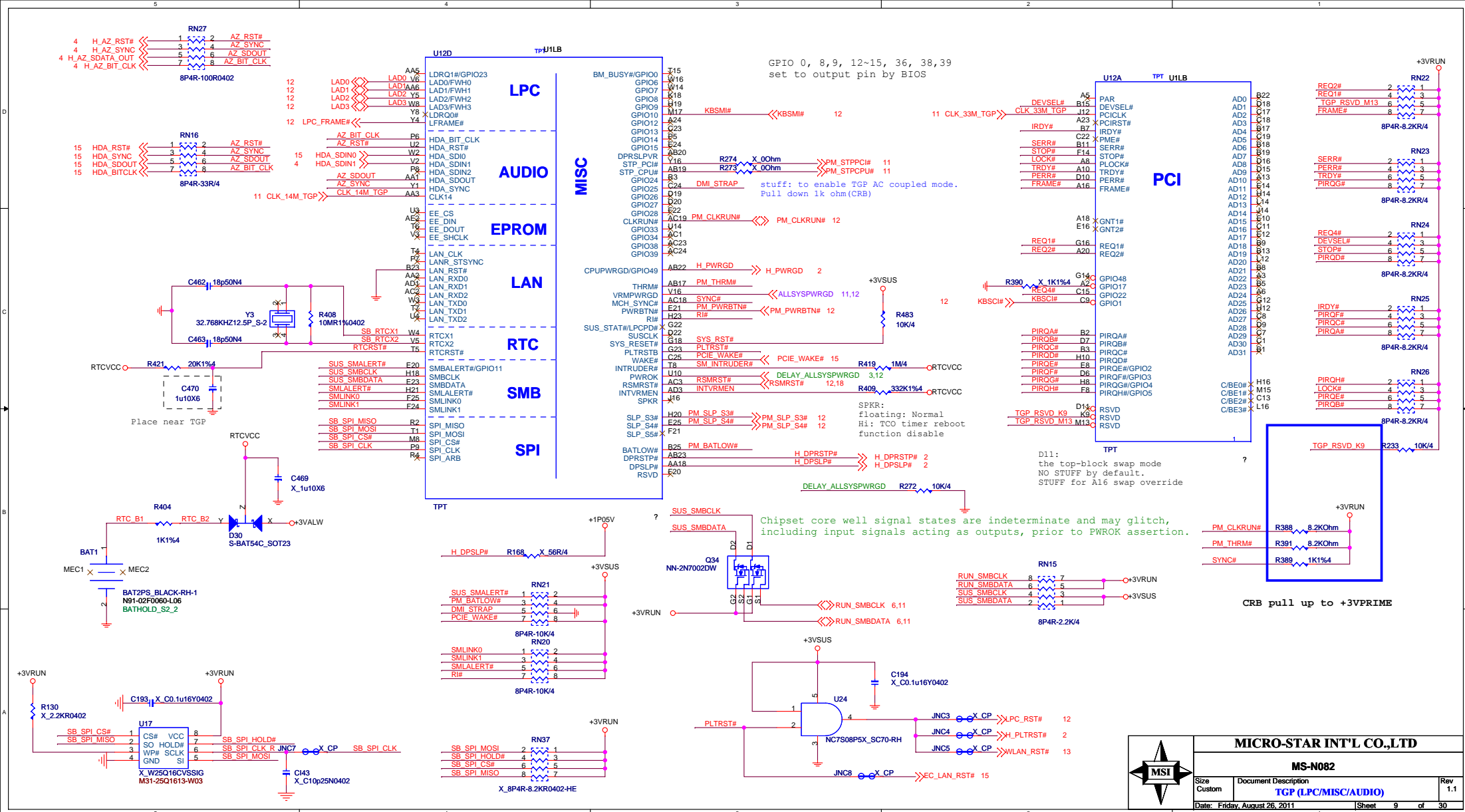
spinup (Max) 1A

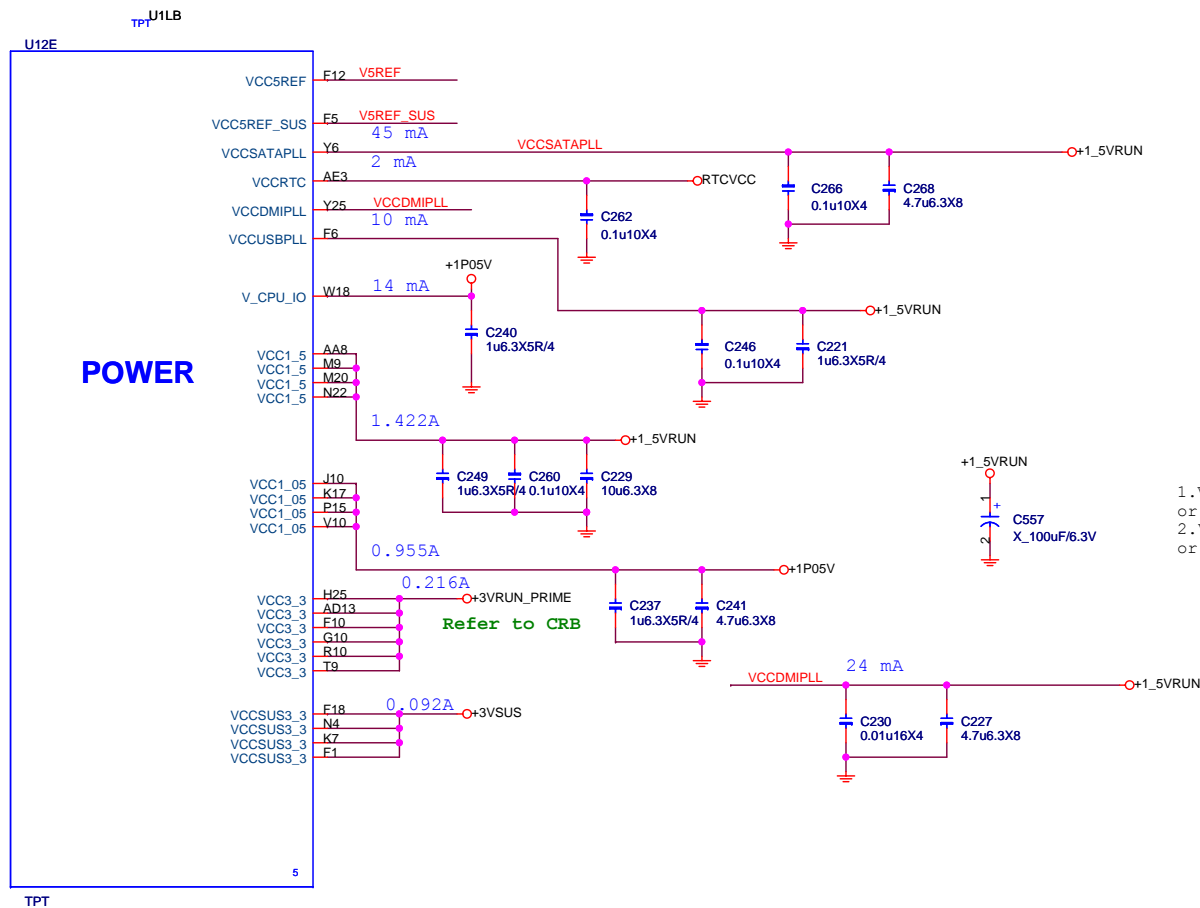
C146
C2206.3X0805

MEC4
MEC3
MEC2

N5N-22F0161-AF2

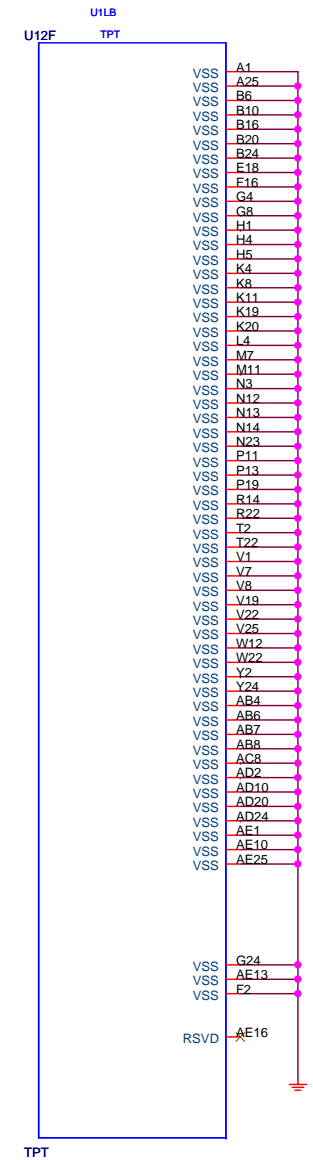






1.V5REF_Sus must be powered up before VccSus3_3, or after VccSus3_3 within 0.7 V.
2.V5REF_Sus must power down after VccSus3_3, or before VccSus3_3 within 0.7 V.

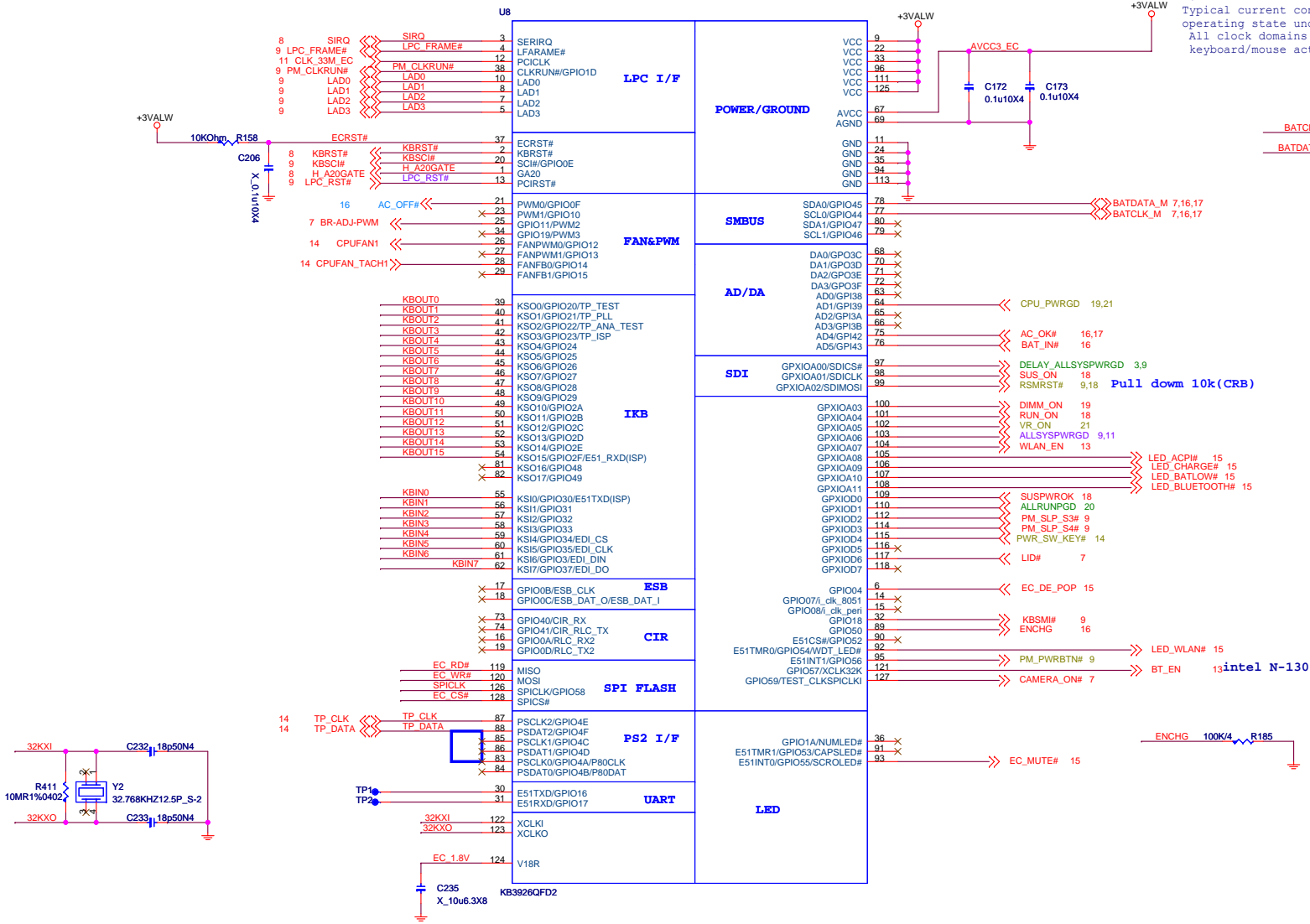
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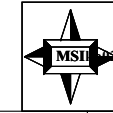
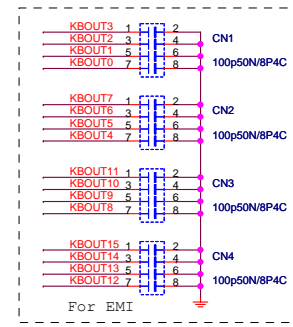
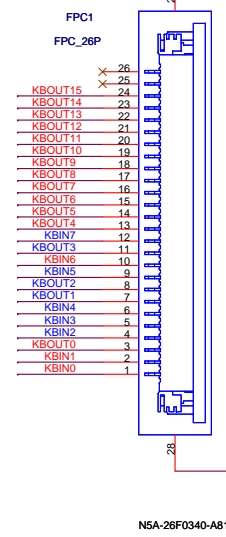
MS-N082

Size	Document Description	Rev
Custom	TGP Power	1.1
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20 mA
Typical current consumption in
operating state under indows environment.
All clock domains are running, and no
keyboard/mouse activities.

KB CONN



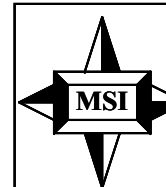
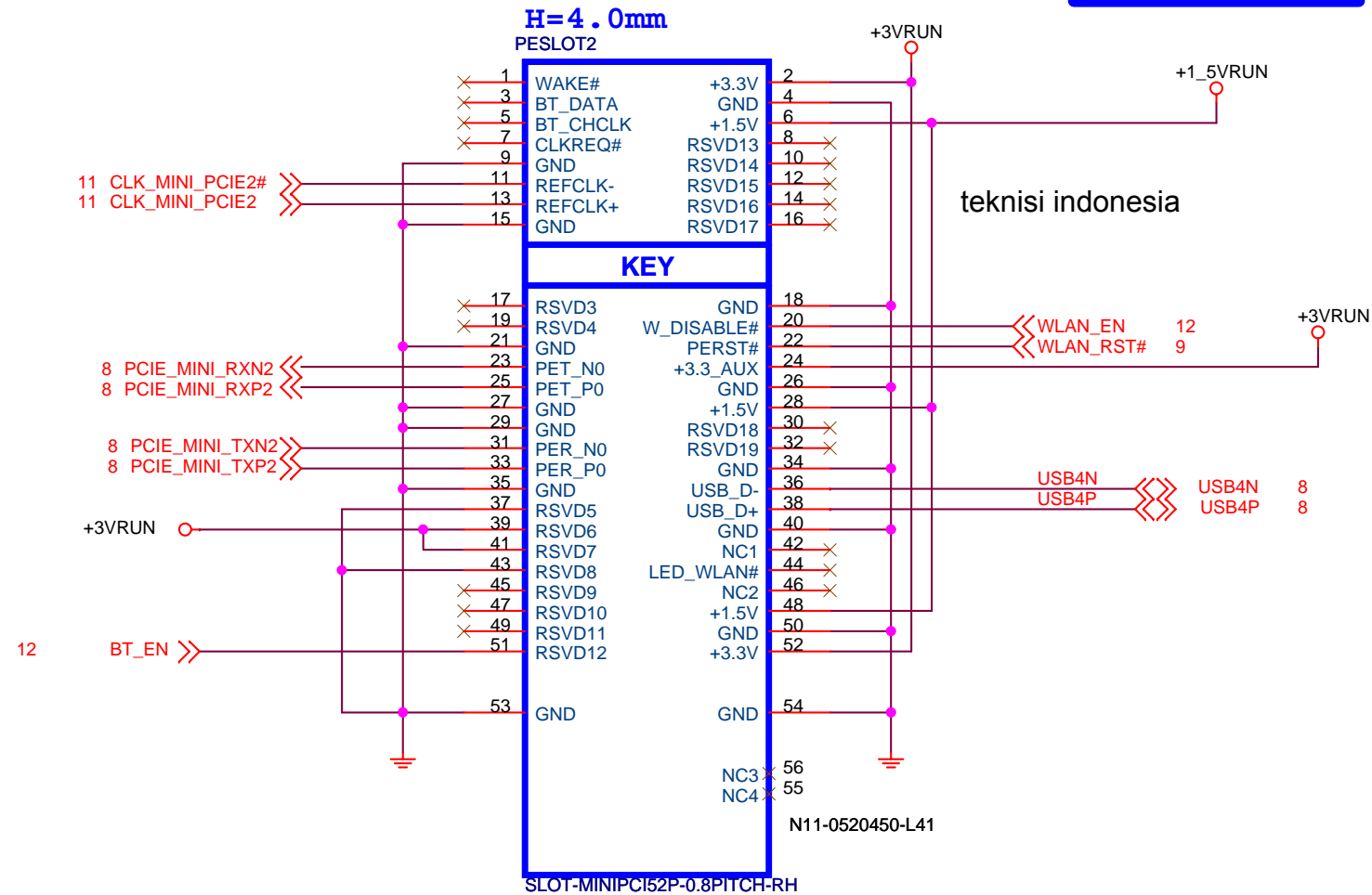
MICRO-STAR INT'L CO.,LTD			
MS-N082			
Size	Document Description	Rev	
Custom	ENE KB3926D	1.1	
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Mini PCIE

Wireless LAN

+3VRUN, 1.5A

+1_5VRUN, 0.5A

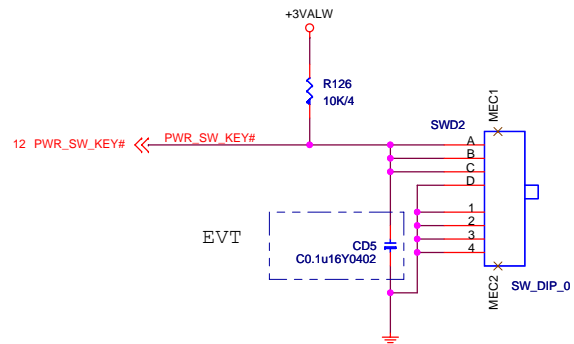


MICRO-STAR INT'L CO.,LTD

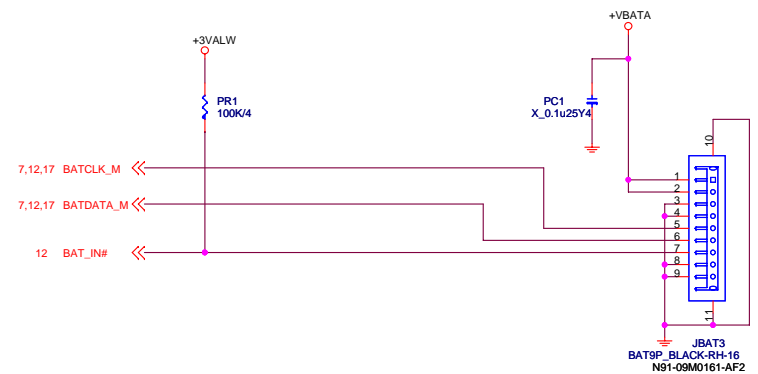
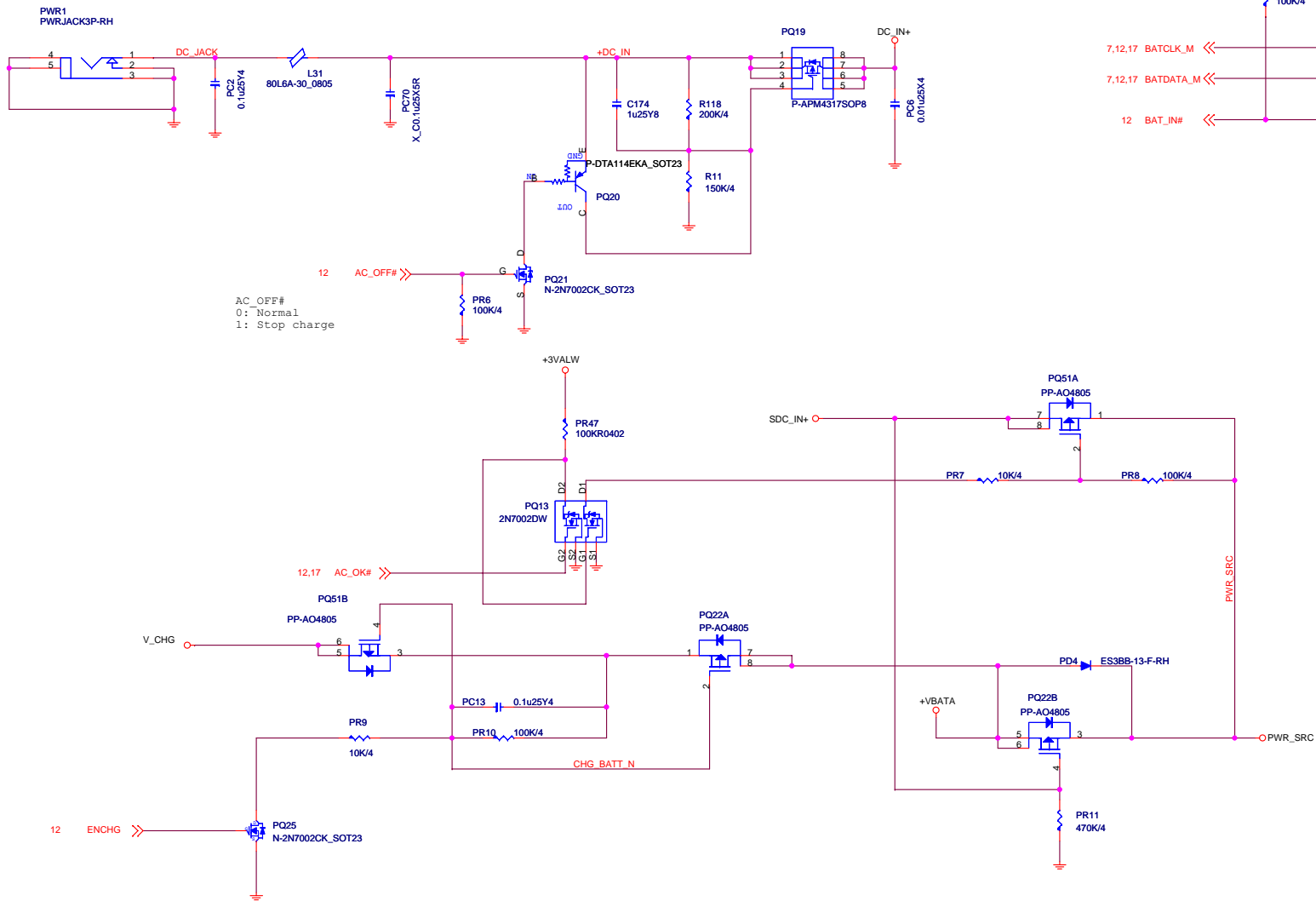
MS-N082

Size	Document Description	Rev
A	Mini PCIE slots	1.1
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POWER SWITCH



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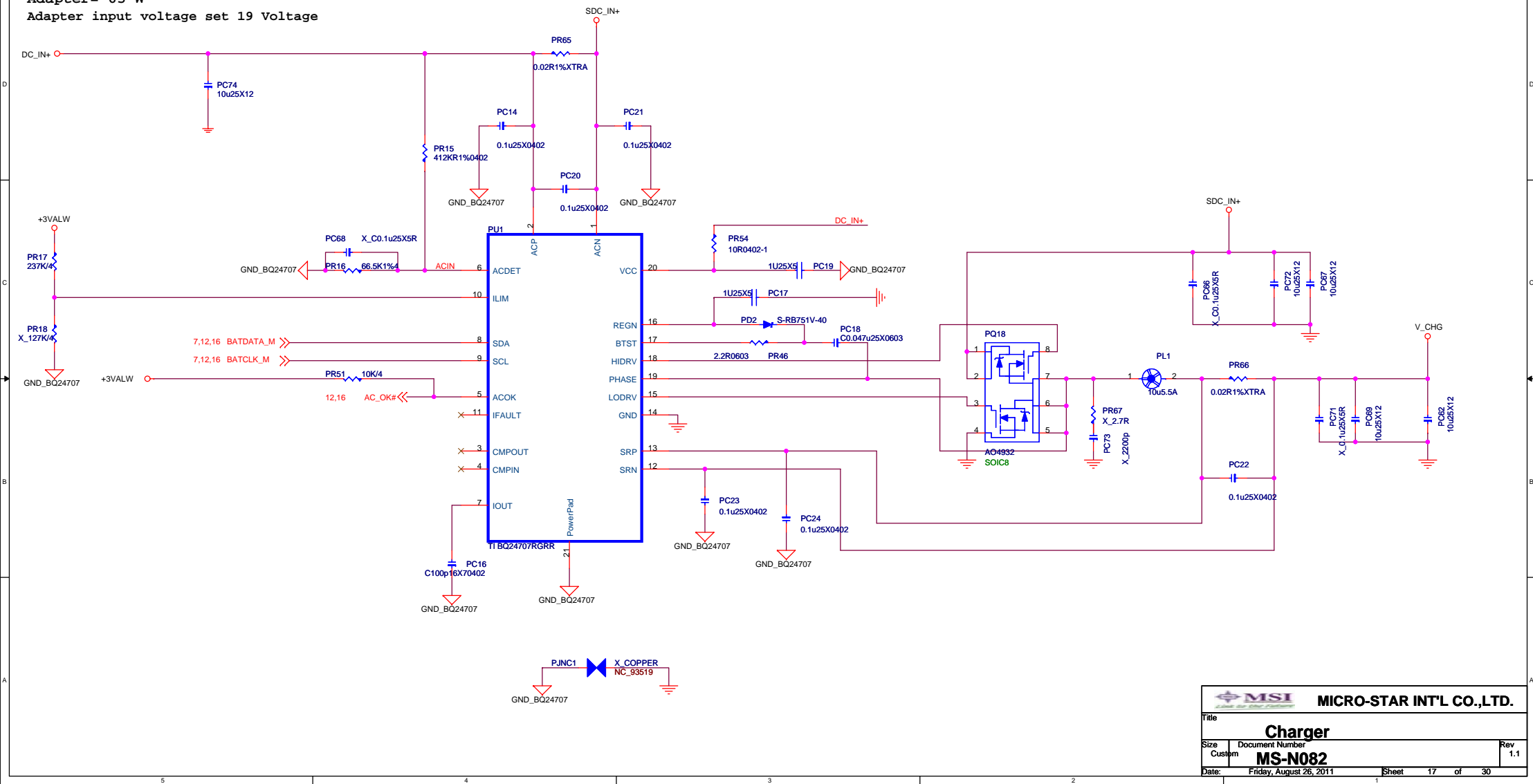
JBAT1 Pin Definition

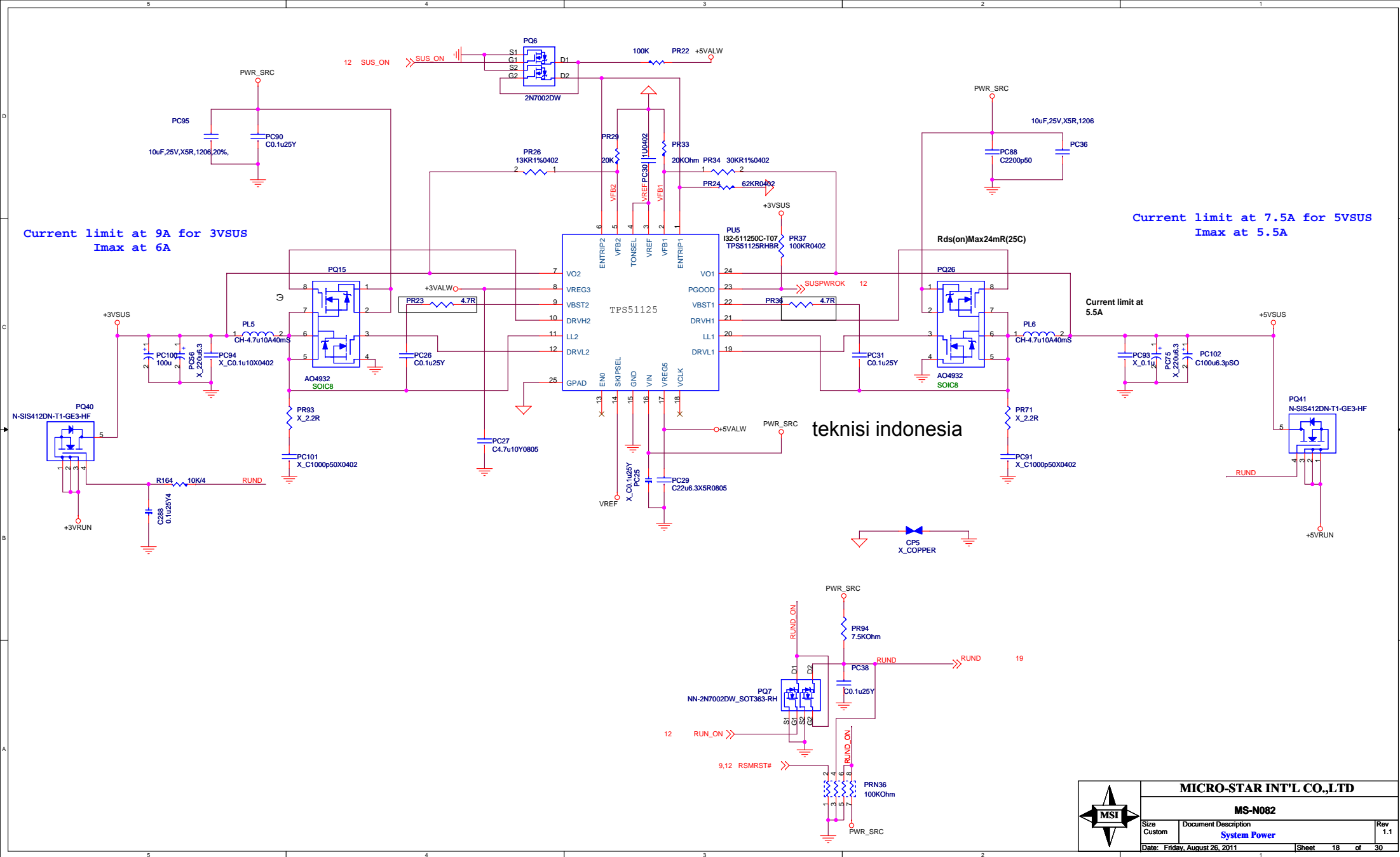
- 1: VBATA+
- 2: VBATA+
- 3: GND
- 4: GND
- 5: SMBCLK
- 6: SMBDATA
- 7: BAT_IN#
- 8: GND
- 9: GND

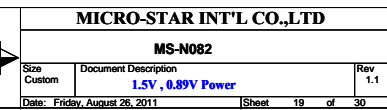
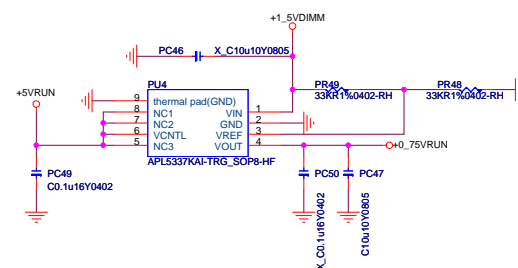
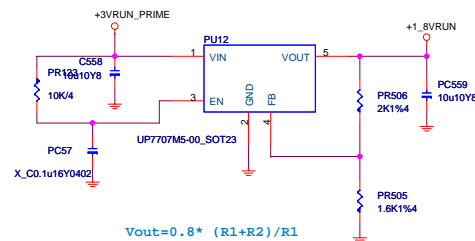
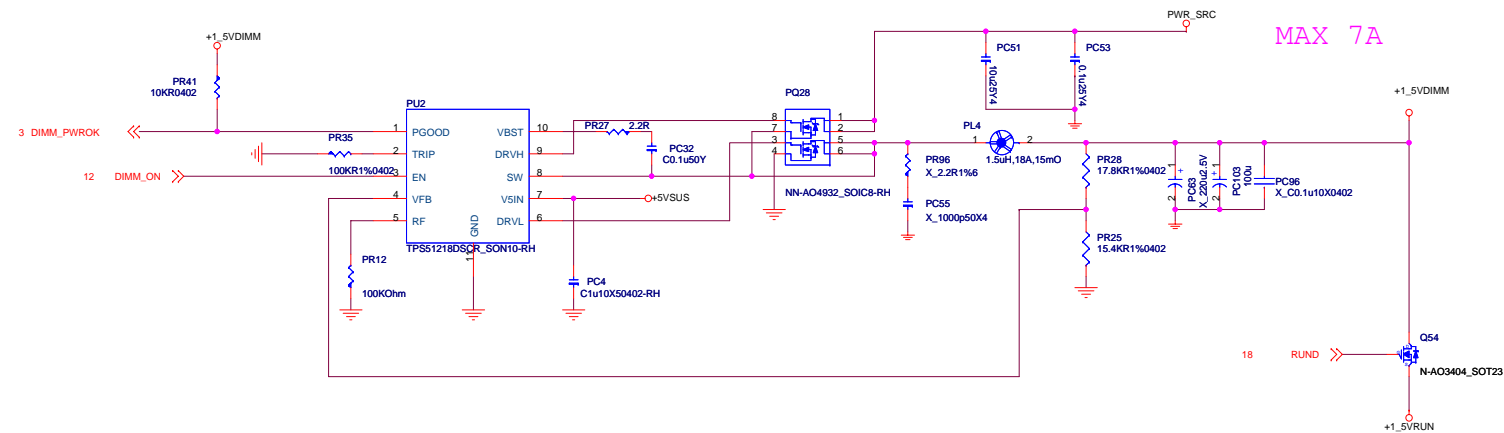
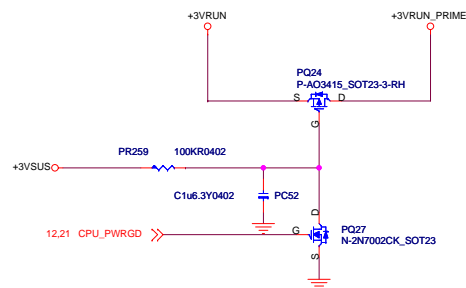


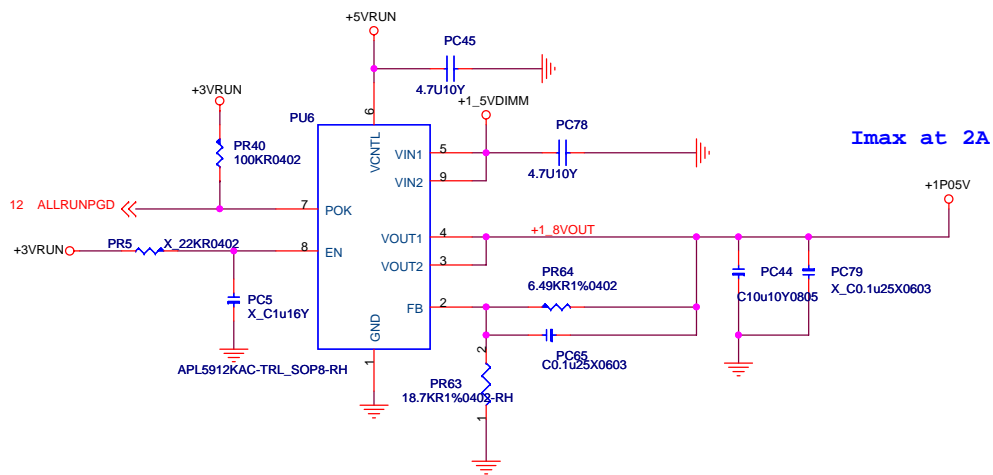
MICRO-STAR INT'L CO.,LTD			
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Size	Document Description		Rev
Custom	Battery select		1.1
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Adapter= 65 W
Adapter input voltage set 19 Voltage









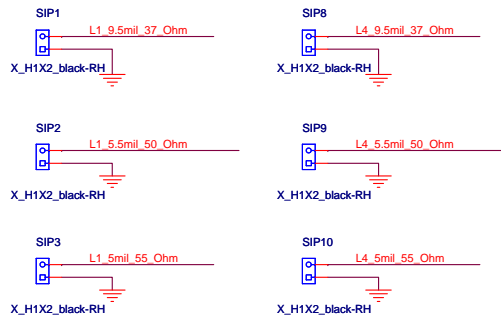
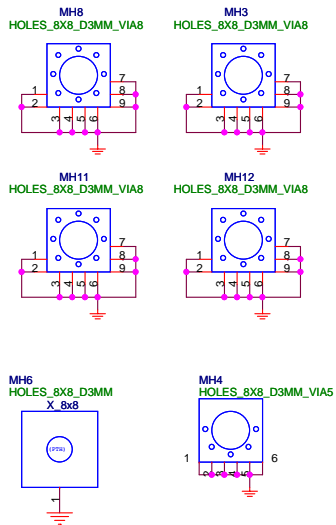
MICRO-STAR INT'L CO.,LTD

MS-N082

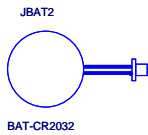
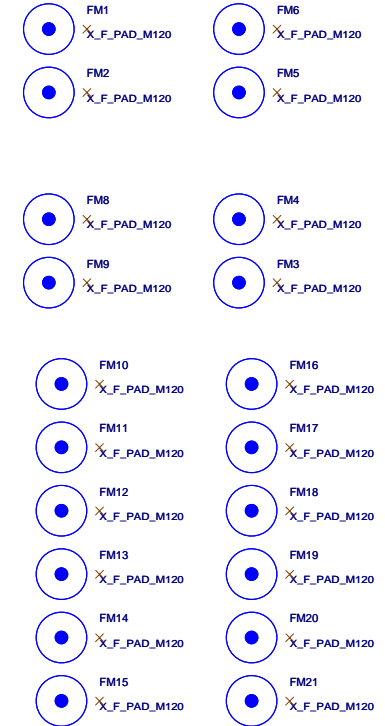
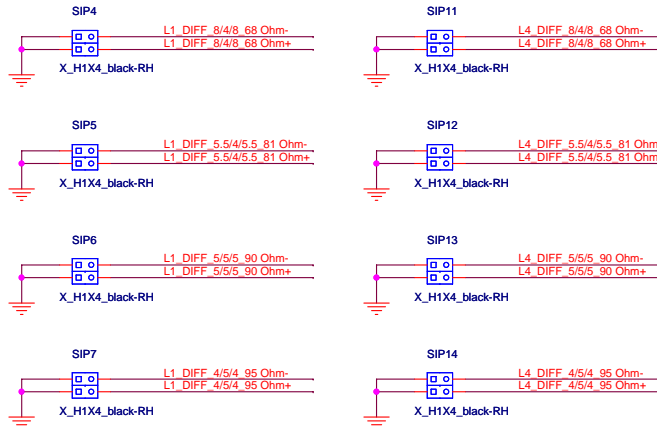
Size	Document Description	Rev
Custom	1.05V, CPU/GFX_COREPOWER	1.1
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Simulation

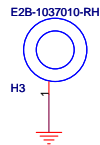
Single End



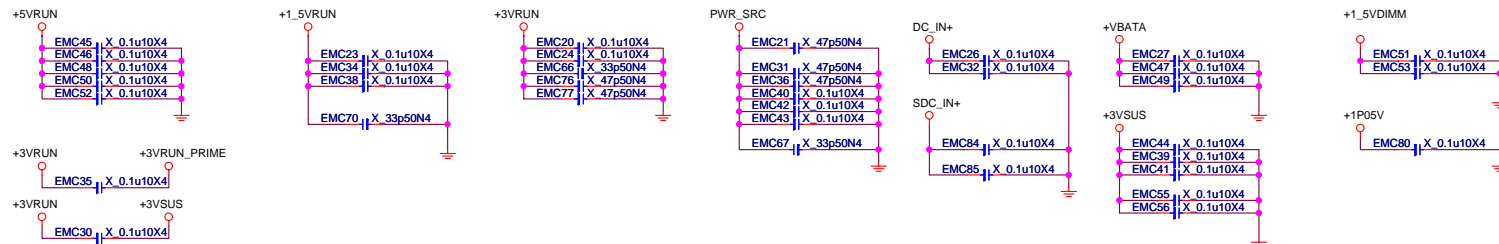
differential signal



CPU FAN

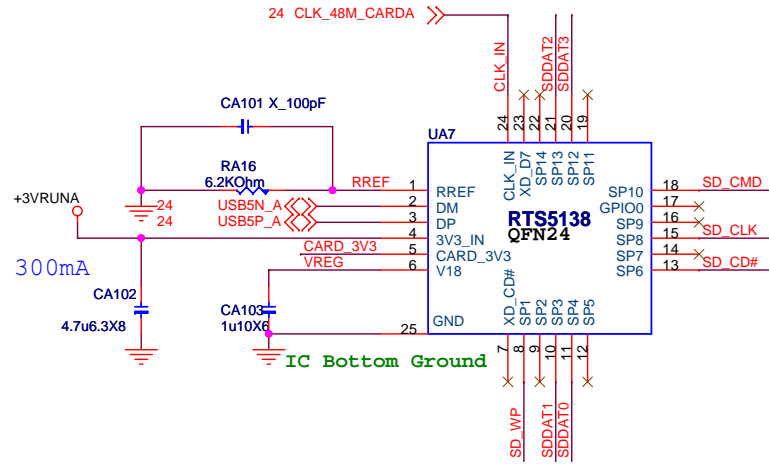


N082 Ver:1.1

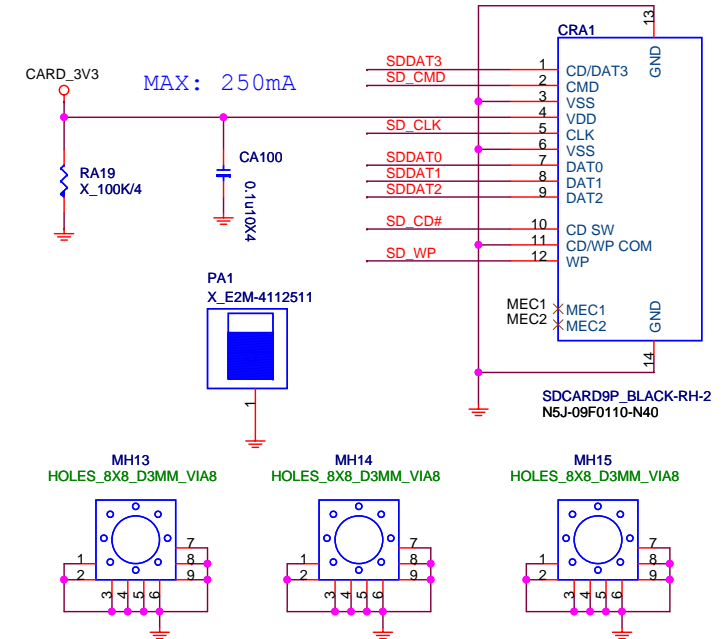


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MS-N082			
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Card Reader controller RTS 5138



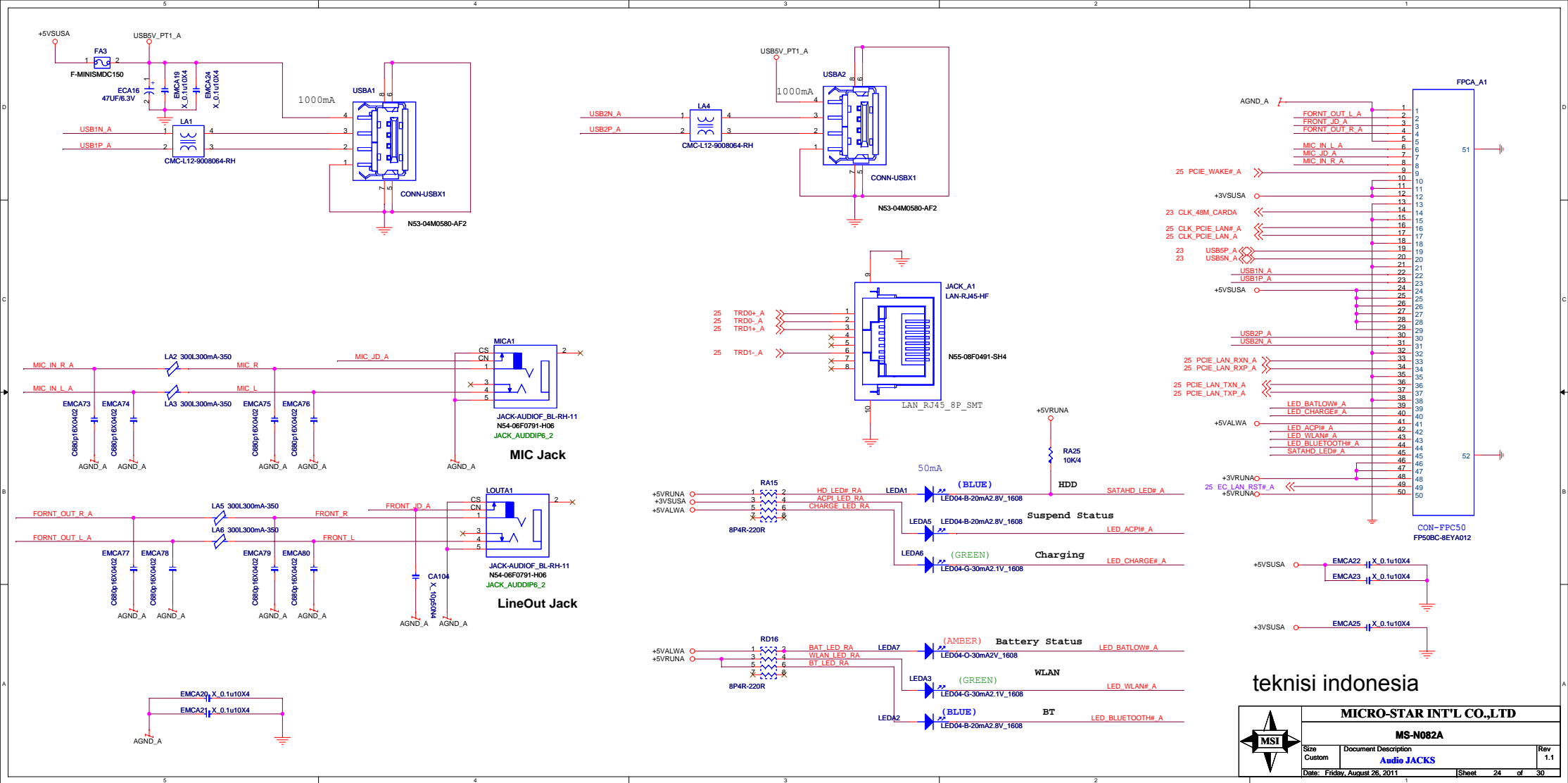
Flash Card Socket



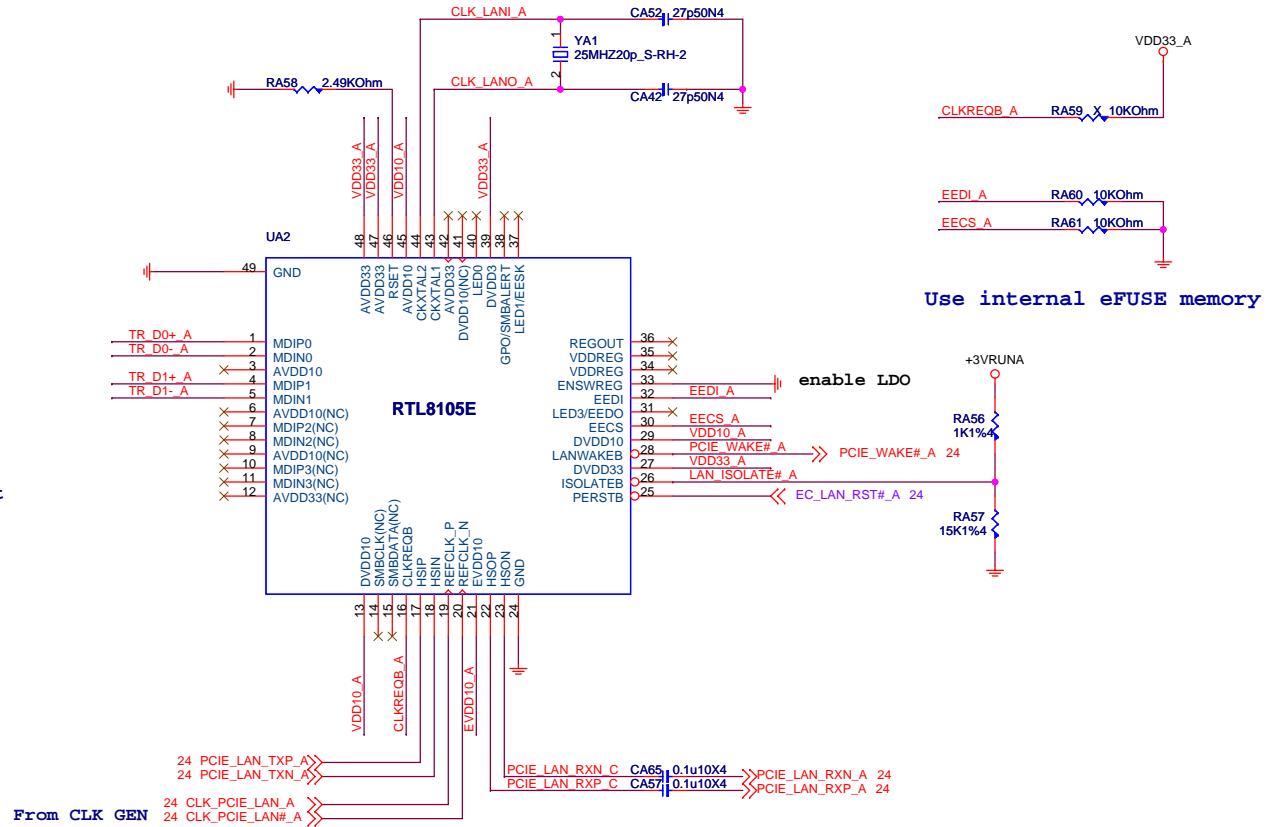
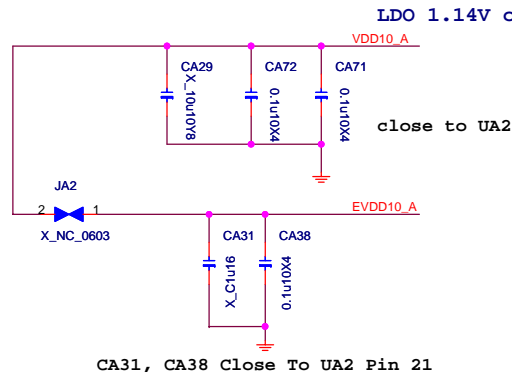
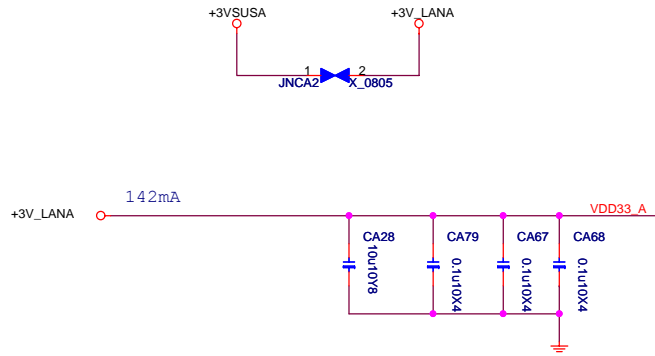
MICRO-STAR INT'L CO.,LTD

MS-N082A

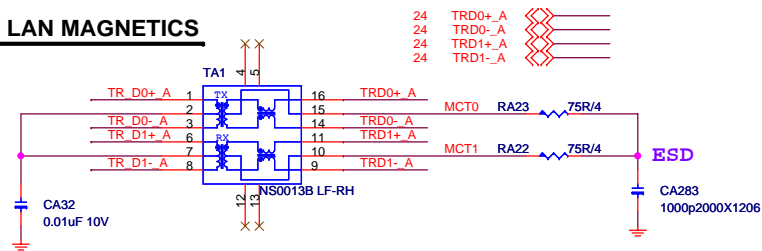
Size	Document Description	Rev
Custom	CardReader RTS5138	1.1
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RTL8105E-VL 10/100M LAN



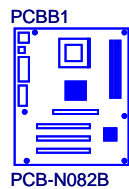
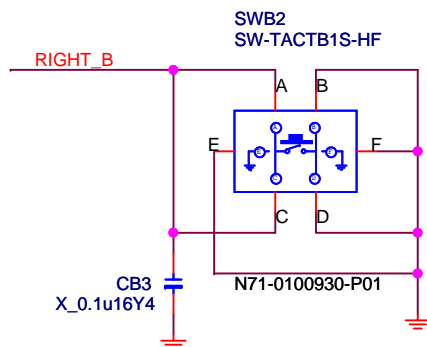
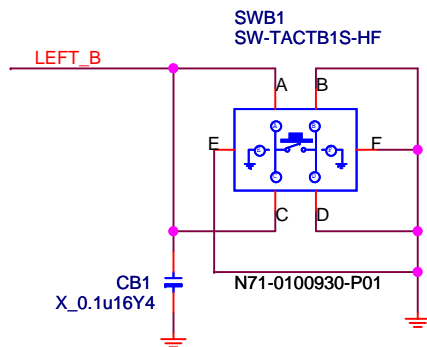
LAN MAGNETICS



MICRO-STAR INT'L CO.,LTD

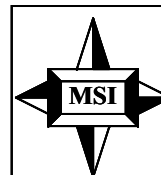
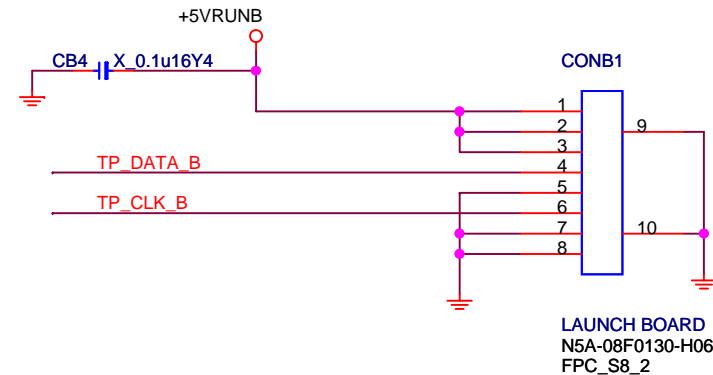
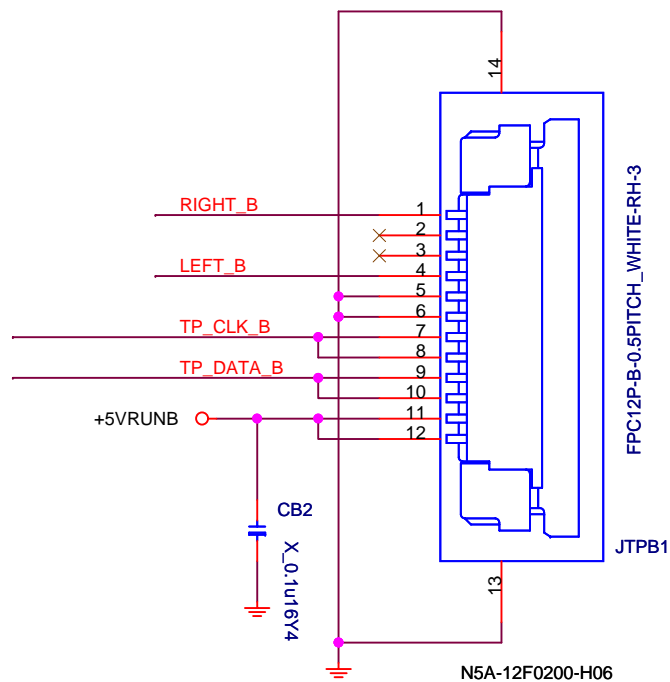
MS-N082A

Size	Document Description	Rev
Custom	LAN_RTL8105E	1.1
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PCB-N082B

N051B to Touch Pad



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MS-N082B

Size
Custom

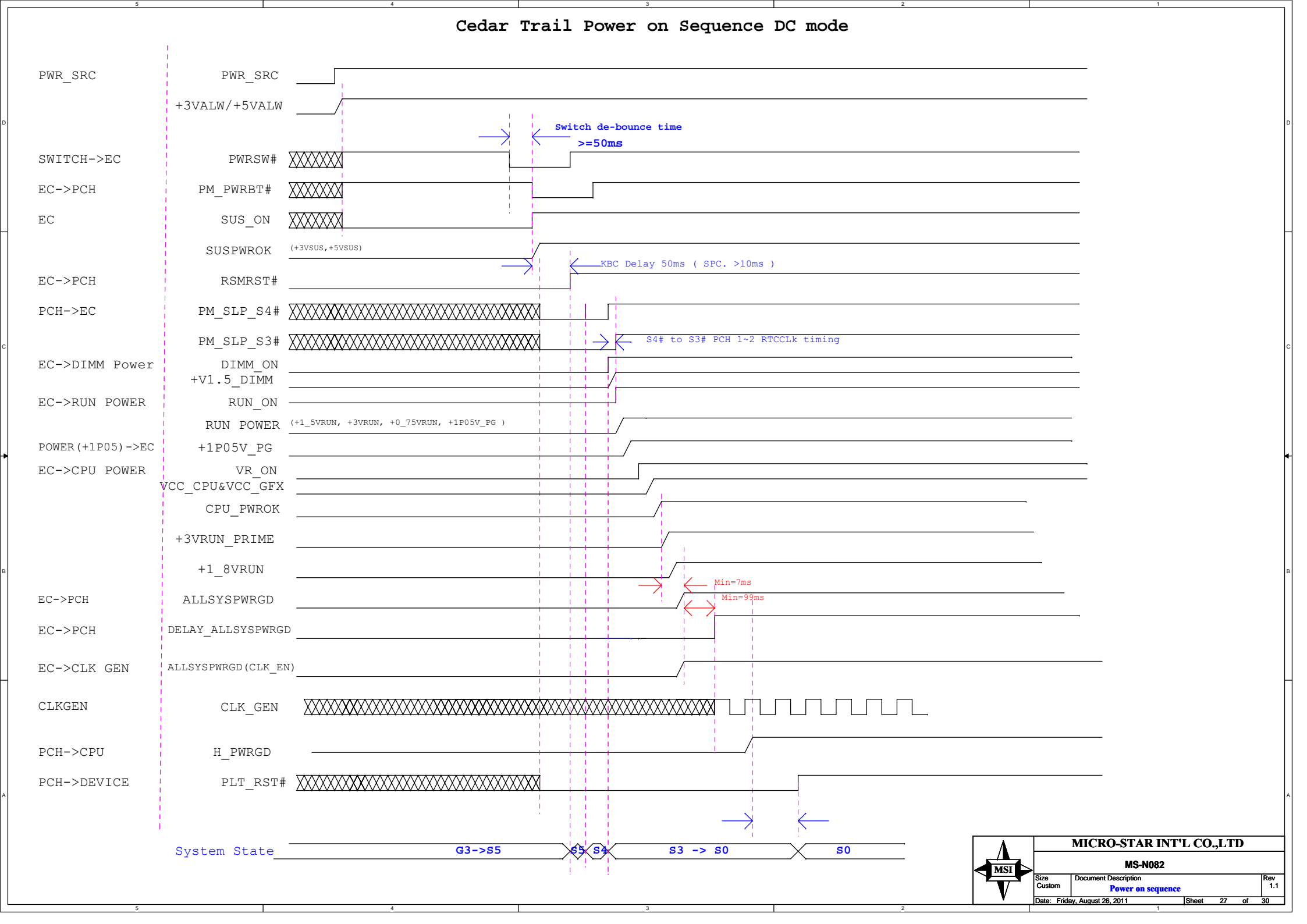
Document Description
TouchPad Board

Rev
1.1

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Cedar Trail Power on Sequence DC mode



0A

- 5/3:
1. Swap PCIE Lan and Wlan
 2. Lan remove RA63
 3. Audio add JNC1
 4. Add EMI solution
 5. Audio codec change from VB5 to VB6
 6. Lan change ISOLATE power from VDD33 to +3VRun
 7. Audio add R99,R100

- 5/4:
1. Audio Jack, add EMCA20, EMCA21

- 5/7:
1. Cpu power, add PR242

- 5/9:
1. Cpu power, PGOOD, PGOODG pull up power from 3VSUS to 3VRUN
 2. SPI ROM, add RN37
 3. Swap GPIO PIRQH# and LOCK#, PIRQB# and IRDY#
 4. Remove PR73,
 5. SPI ROM, pull up pin swap

- 5/11:
1. LID Switch power from 3VRUN to 3VSUS
 2. HOLE MH4 from VIA8 to VIA5
 3. Modify PC43 P/N
 4. Cpu power, add PC104, PC105

- 5/12:
1. del C2, EMC25, PEC12
 2. del PR52, PR53

- 5/13:
1. Audio, add Q55, R101, R102

- 5/16:
1. modify U15,PQ21,PQ25 P/N

- 5/18:
1. R390不上件

- 5/13:
1. CPU power, PC104不上件, PEC16上件
 2. VTT power, PC45, PC65上件

1.0

- 6/16:
1. KBC, Swap signal CPUPWRGD and ALLSYSPWRGD
 2. KBC crystal, add 10M resistance
 3. HDMI 3VRUN change to 5VRUN
 4. 0.75VRUN, 5VSUS change to +5VRUN
 5. 3VRUNPRIME, 0.1uf change to 1uf
3VRUN change to 3VSUS
 6. PWRSW# add a cap
 7. Remove LANPWR_ON
 8. USB, 5VRUN change to 5VSUS
 9. AUDIO,PCH--CPU 33ohm-->100ohm
 10. LVDS_EN add 100kohm

- 6/17:
1. Modify MH6 footpirnt
 2. Modify power P/N
 3. Swap BTB pin define

- 6/20:
- 1.Change bios rom P/N
 - 2.Change cpu P/N

- 07/01:
- 1.Change PC105 P/N
 2. Remove C6 and PC42

- 07/08:
- 1.Change CPU p/n from B1 STEPPING to B2 STEPPING

- 07/11:
- 1.+3VCAMERA Q53 from D03-0640219-I08 to D03-0341509-A68
 - 2.Charger PQ21,PQ25 from D03-0700219-R06 to D03-07002F9-N47
 - 3.+3VRUN_PRIME PQ27 from D03-0700299-F09 to D03-07002F9-N47
 - 4.HDMI Q23 from D03-0700299-F09 to D03-07002F9-N47
 - 5.AUDIO Q55 from D03-7002D10-D07 to D03-7002D20-P15

- 07/13:
- 1.Remove C146


- 08/15:
- 1.Change SWD2 P/N, from N78-0100070-D02 to N78-0100080-D02
 2. RN22,RN23,RN24,RN25,RN26,R233上件

1.1

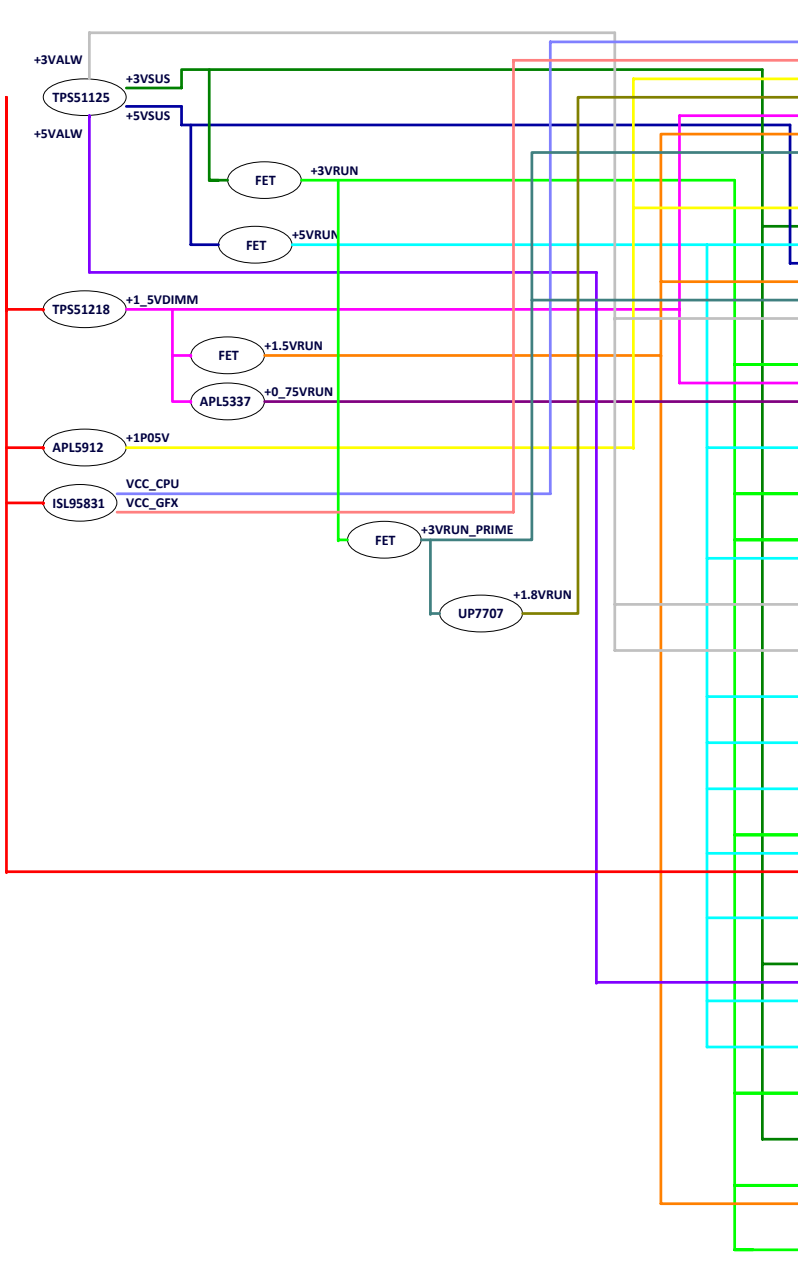
- 08/15:
1. change BTB connector pin define
 2. USB add LA1, LA4
 3. DEL EMC54
 4. ADD EMC22, EMC23, EMC24
 5. ADD U24

- 08/22:
1. 3VSUSA add EMCA25

- 08/26:
1. ADD C512, audio jack 8pcs cap

				MICRO-STAR INT'L CO.,LTD			
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PWR_SRC



Cedar View	
VCC_CPU	1.05V 4234mA
VCC_GFX	1.05V 3438mA
+1P05V	1.05V 805mA
+1.8VRUN	1.8V 151mA
+1_5VDIMM	1.5V 442mA
+1.5VRUN	1.5V 125mA
+3VRUN_PRIME	3.3V 4mA

TigerPoint	
+1P05V	1.05V 969mA
+3VSUS	3.3V 92mA
+5VRUN	5V 6mA
+5VSUS	5V 10mA
+1.5VRUN	1.5V 1501mA
+3VRUN_PRIME	3.3V 4mA
+3VALW	3.3V 10mA

DDR	
+3VRUN	3.3V 2mA
+1.5VDIMM	1.5V 2500mA
+0.75VRUN	0.75V 1000mA

HDD	
+5VRUN	5V 1000mA

CLK GEN	
+3VRUN	3.3V 100mA

AUDIO	
+3VRUN	3.3V 100mA
+5VRUN	5V 150mA

KBC	
+3VALW	3.3V 100mA

BIOS	
+3VALW	3.3V 50mA

USB	
+5VRUN	5V 2000mA

FAN	
+5VRUN	5V 500mA

TOUCHPAD	
+5VRUN	5V 200mA

LCD	
+3VRUN	3.3V 1000mA
+5VRUN	5V 500mA
PWR_SRC	19V 500mA

CRT	
+5VRUN	5V 500mA

LED	
+3VSUS	3.3V 50mA
+5VALW	5V 100mA
+5VRUN	5V 150mA

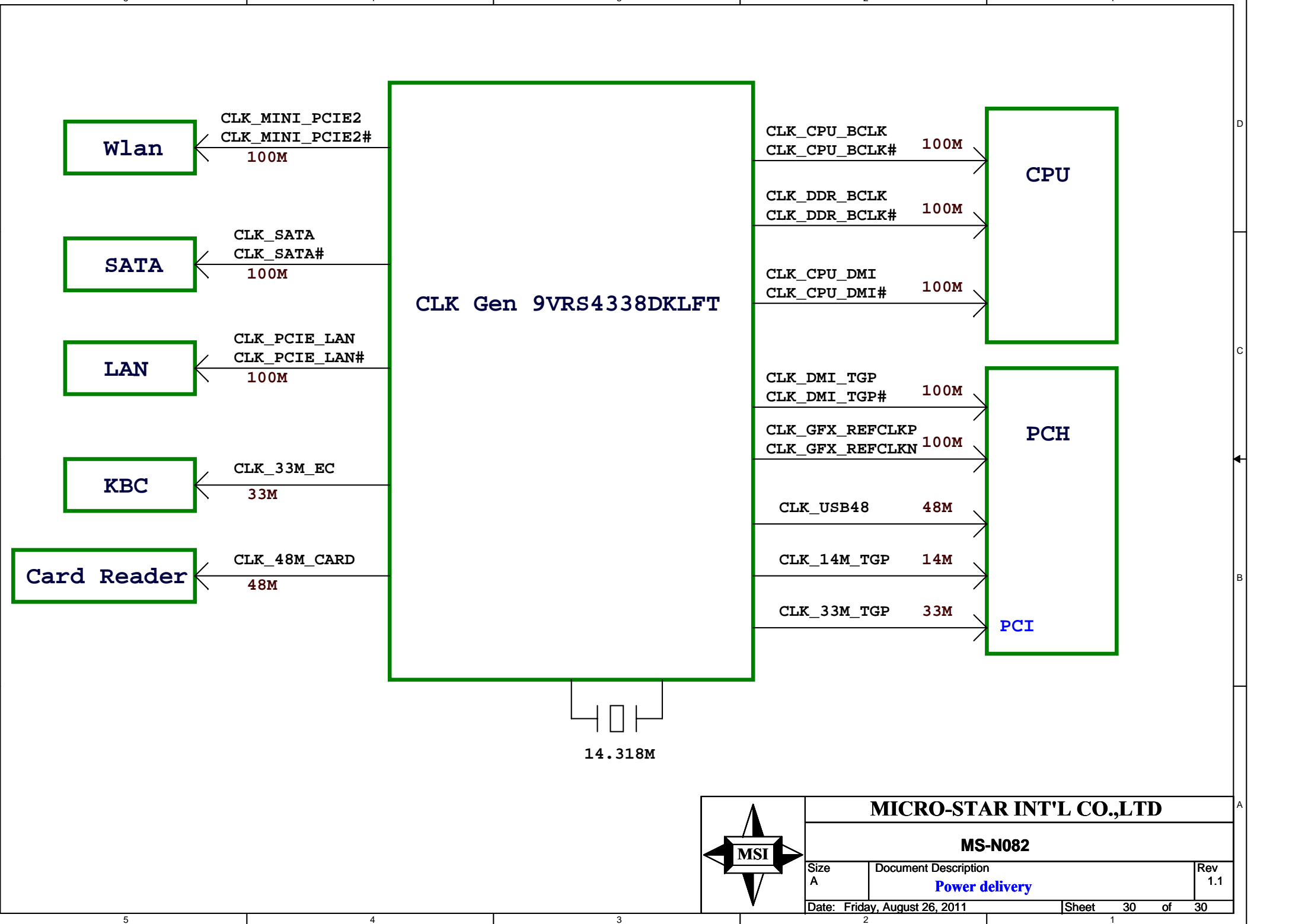
HDMI	
+5VRUN	5V 500mA

CARD READER	
+3VRUN	3.3V 400mA

LAN	
+3VSUS	3.3V 200mA

WLAN/BT	
+3VRUN	3.3V 1500mA
+1.5VRUN	1.5V 500mA

CAMERA	
+3VRUN	3.3V 200mA



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