

8L

CLOCK GEN
SLG8SP568/
ICS9LPRS393(QFN68)
P3

```
USB I/F
VGA I/F
RJ45
Dock Ctrl
```

32.768KHz


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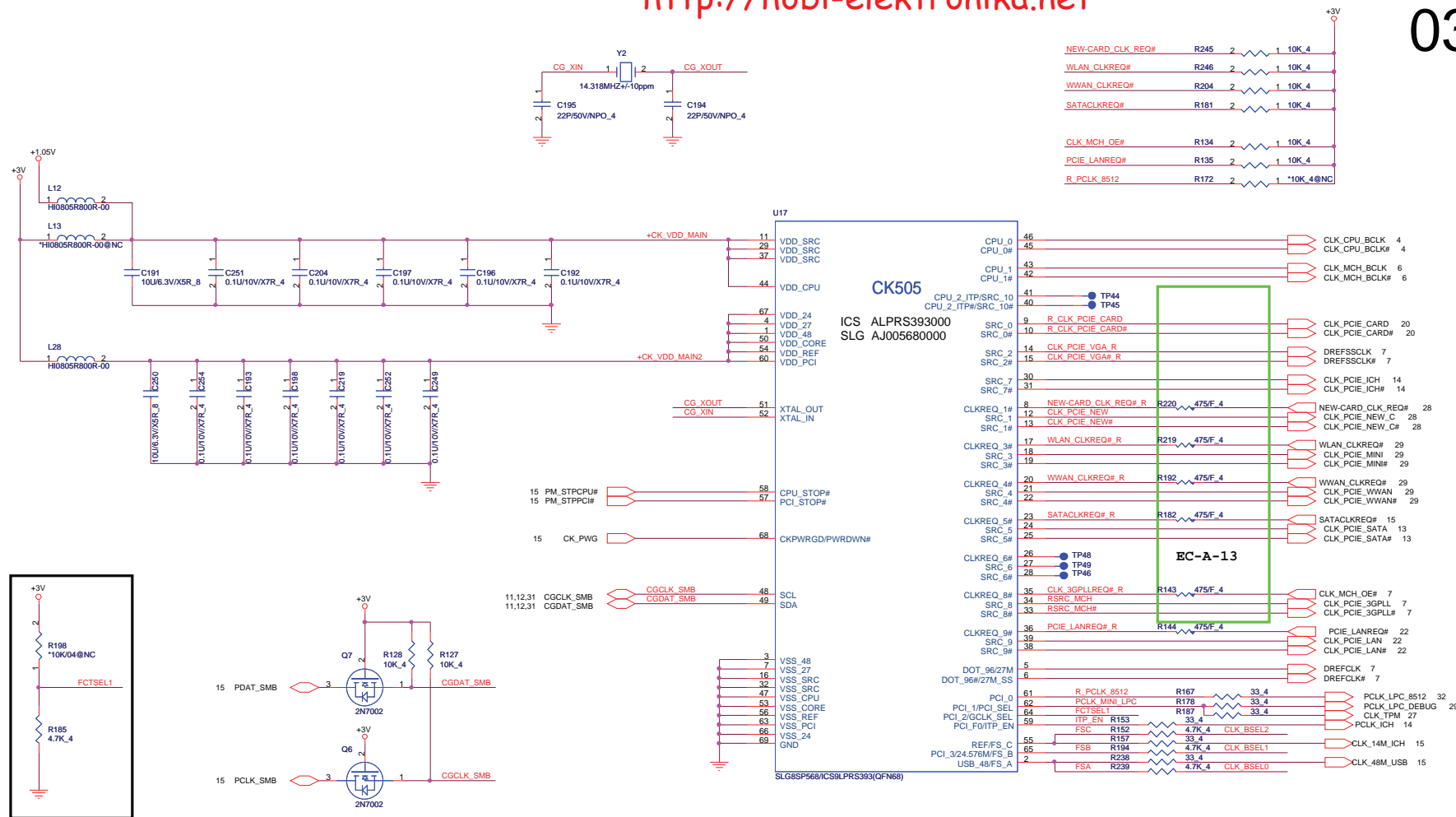
Memory
CardReader
7-in-1

Size	Document Number	Rev
Custom	Block Diagram	1A
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Power States

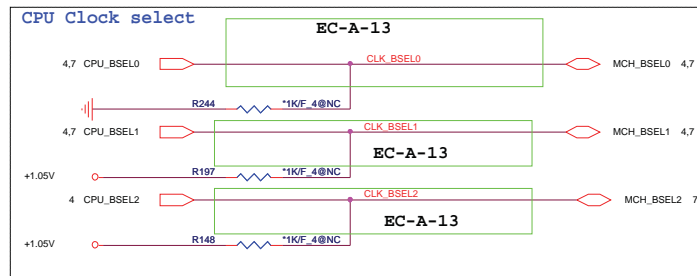
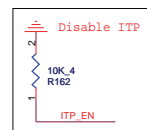
POWER PLANE	VOLTAGE	PAGE	DESCRIPTION	CONTROL SIGNAL	ACTIVE IN
VIN	10V~+19V	18, 33, 34, 35, 36, 37, 38, 39	MAIN POWER		S0~S5
+3VRTC	+3.0V~+3.3V	13, 16, 32	RTC		S0~S5
3VPCU	+3.3V	13, 18, 22, 24, 30, 32, 33, 34, 36, 37	8051 POWER		S0~S5
5VPCU	+5V	30, 33, 34, 35, 36, 37, 38	LCD/CHARGE POWER		S0~S5
+15V	+15V	18, 26, 33, 37	LARGE POWER	5VPCU	S0~S5
LANVCC	+3.3V	22, 33	LAN POWER	LAN_ON	
5VSUS	+5V	18, 30, 33, 38	SLP_S5# CTRLD POWER	SUSON	
3VSUS	+3.3V	14, 15, 27, 28, 29, 32, 33, 38	SLP_S5# CTRLD POWER	SUSON	
1.8VSUS	+1.8V	10, 33, 36		SUSON	
1.5VSUS	+1.5V	07, 09, 10, 11, 12, 33, 35	SODIMM POWER CALISTOGA/ICH8 POWER	SUSON	
SMDDR_VREF_DIMM	+0.75V	11, 12	SODIMM POWER		
+5V	+5V	16, 17, 18, 19, 21, 23, 24, 25, 32, 33, 34	SLP_S3# CTRLD POWER	MAINON	
+3V	+3.3V	03, 05, 07, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38	SLP_S3# CTRLD POWER	MAINON	
+1.5V	+1.5V	05, 10, 13, 14, 15, 16, 21, 27, 28, 29, 35	CALISTOGA/ICH8 POWER	MAINON	
+1.05V	+1.05V	03, 04, 05, 06, 07, 09, 10, 13, 16, 33, 36, 38	CPU/CALISTOGA/ICH8 POWER	MAINON	
VCC_CORE	+0.7V~+1.77V	04, 05, 33, 38	CPU CORE POWER	VRON	
LCDVCC	+3.3V	18	LCD Power	NT_DISP_ON	
+5VHDD	+5V	23	HDD Power	MAINON	
MBATV	+10V~+17V	32, 34	MAIN BATTERY	D/C#	

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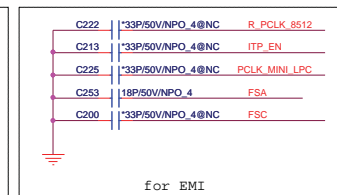


CGCLK_SEL = FCTSEL1

FCTSEL1 (PIN64)	PIN5	PIN6
0	DOT96	DOT96#
1	27Mout-NSS	27Mout-SS



FSC	FSB	FSA	CPU	SRC	PCI
0	0	0	266.6	100	33
0	0	1	133.3	100	33
0	1	0	200.0	100	33
0	1	1	166.6	100	33
1	0	0	Reserved		
1	0	1	Reserved		
1	1	0	Reserved		
1	1	1	Reserved		

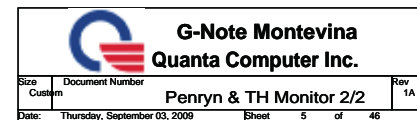


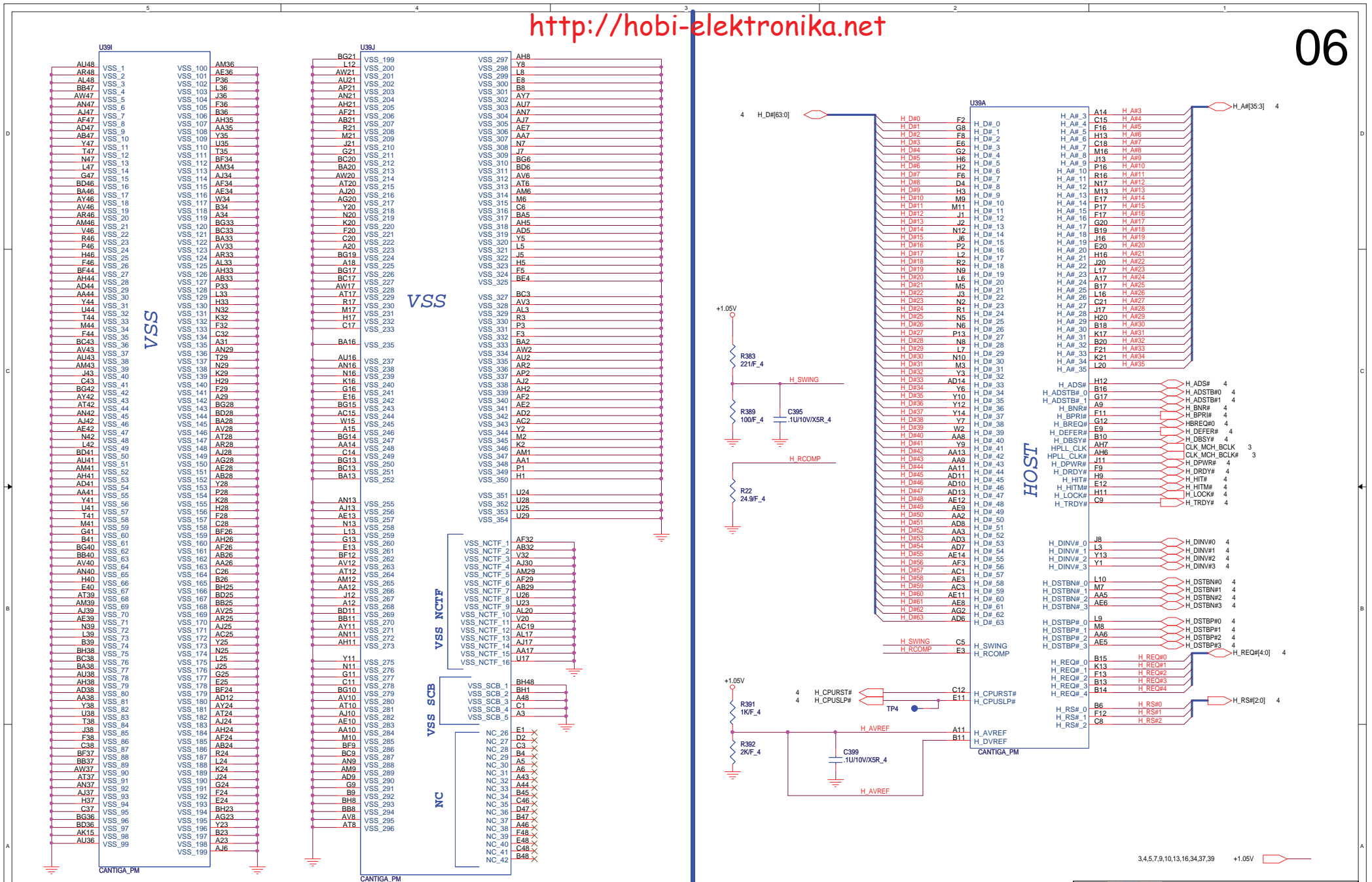
G-Note Montevina
Quanta Computer Inc.

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MCH_CFG_5 DMIx2 selection

Low: DMIx2
High: DMIx4 (Default)

MCH_CFG_16 FSB Dynamic ODT

Low: Dynamic ODT disabled
High: Dynamic ODT enabled (Default)

MCH_CFG_9 PCI Express Graphic Lane

Low: Reverse Lane
High: Normal operation (Default)

MCH_CFG_19 DMI Lane Reversal

Low: Normal (Default)
High: Lane Reserved

MCH_CFG_6 iTPM Host Interface

Low: iTPM Host Interface enabled
High: iTPM Host Interface disabled (Default)

MCH_CFG_7 Intel (R) Management Engine Crypto

Low = Intel Management Engine Crypto Transport Layer Security (TLS) cipher suite with no confidentiality
High = Intel Management Engine Crypto TLS cipher suite with confidentiality (default)

MCH_CFG_10 PCIe Lookback Enable

Low: Enabled
High: Disabled (Default)

MCH_CFG_12 XOR/ALLZ/CLOCK Un-gating

MCH_CFG_13 MCH_CFG_12 Configuration

0 0 Reserved
0 0 XOR Mode enabled
0 1 All-Z Mode enabled
1 1 Normal operation (Default)

ME_JTAG_TOK
ME_JTAG_TDI
ME_JTAG_TDO
ME_JTAG_TMS

CFG_0
CFG_1
CFG_2
CFG_3
CFG_4
CFG_5
CFG_6
CFG_7
CFG_8
CFG_9
CFG_10
CFG_11
CFG_12
CFG_13
CFG_14
CFG_15
CFG_16
CFG_17
CFG_18
CFG_19
CFG_20

PM_SYNC#
PM_EXTTS#
PM_EXT_TSS_0
PM_EXT_TSS_1
PM_WROK
RSTN#
THERMTRIP#
DPRSLPVR

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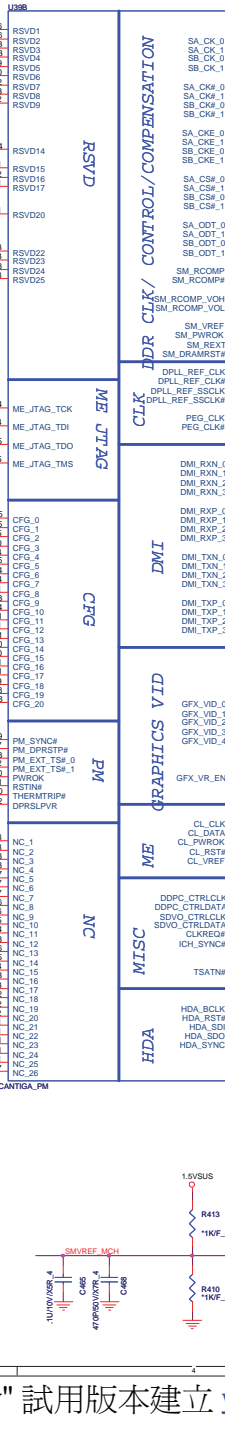
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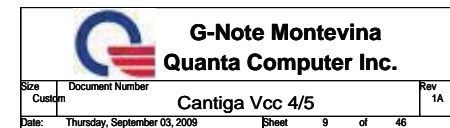
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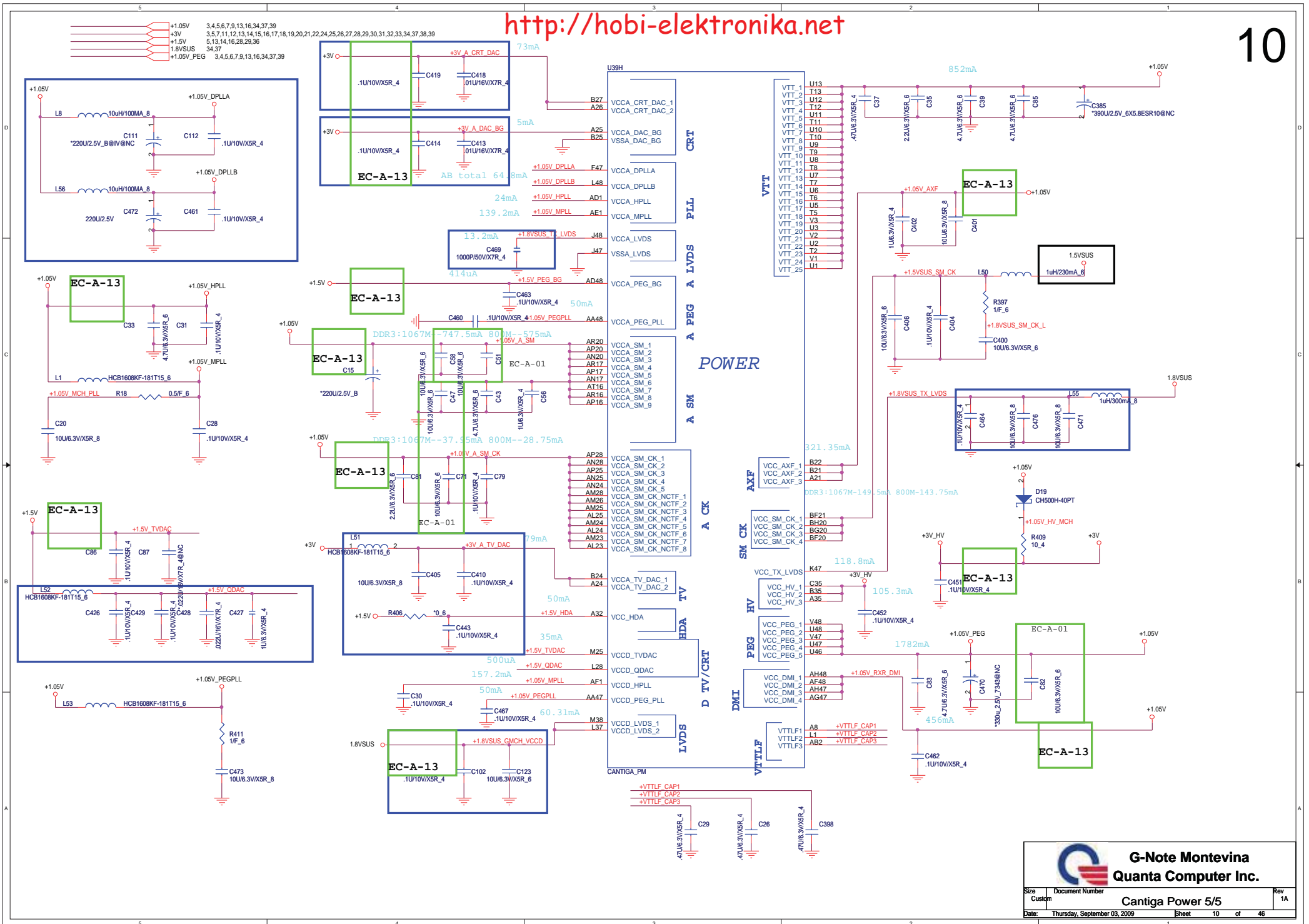
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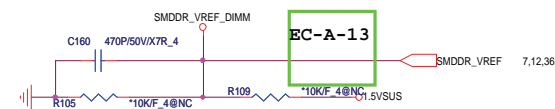
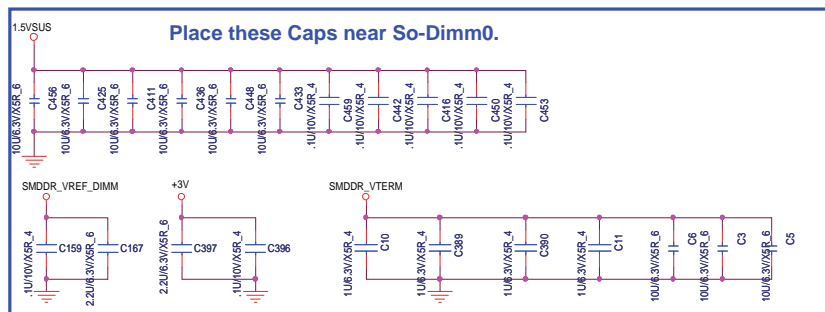
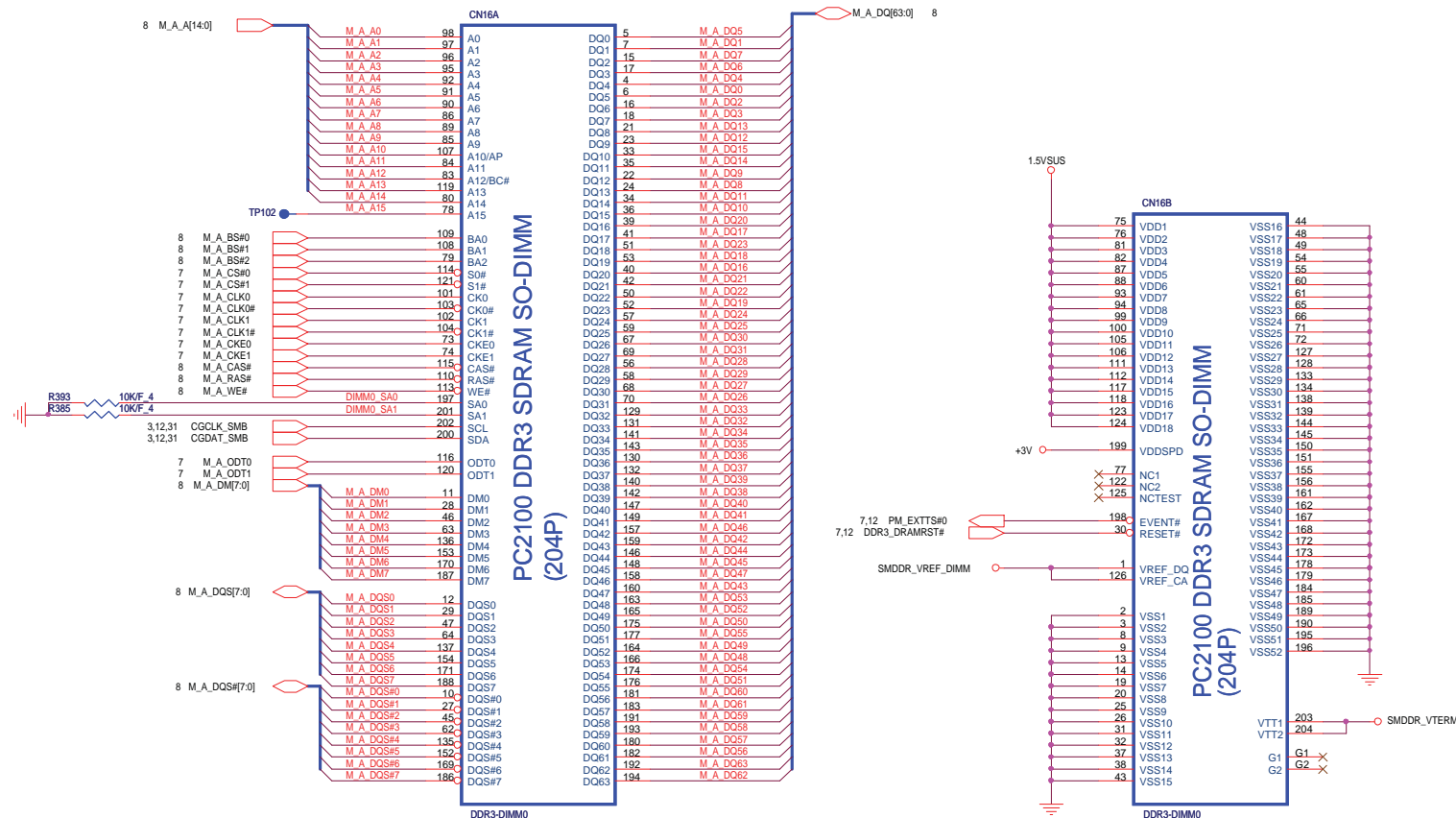
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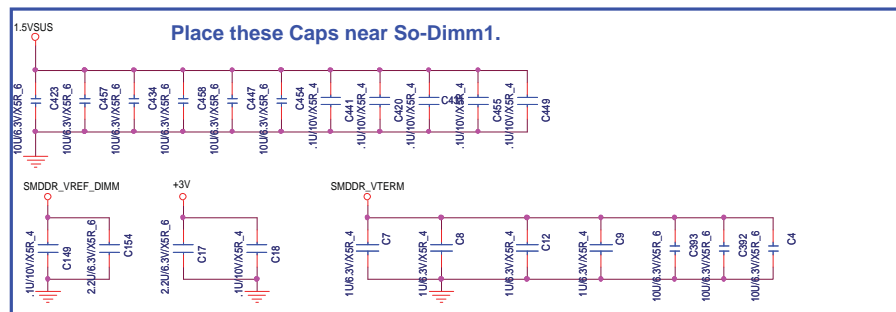


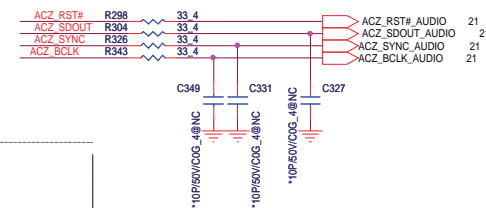












Z_SPKR	Low: Default Hi: No reboot
--------	-------------------------------

ICH_TP3	HDA_SDOUT	Description
0	0	RSVD
0	1	Enter XOR Chain
1	0	Normal operation(Default)
1	1	Set PCIe port config bit 1

STRAP	PCI_GNT0#	SPI_CS#1
SPI	0	1
PCI	1	0
LPC	1	1

1K/4 R321 GNT0# 14

*1K/4@NC R203 SPI_CS#1_R 14

A16 swap override strap	
PCI_GNT#3	Low = A16 swap override enabled Hi = Default

TPM physical presence	
ICH_GPIO57	Low: Default

w/o TPM	
TPM	Low: Default

+3V_{RTC}
 R433
 332K/F_4
 ICH_INTVRMEN
 R432
 *0_4@NC

*1K/F 4@NC R305 GNT3# 14

3V S5

EC-A-17

R475
10K/F_4@NC

GPIO56

R472
100K/F_4



G-Note Montevina
Quanta Computer Inc.

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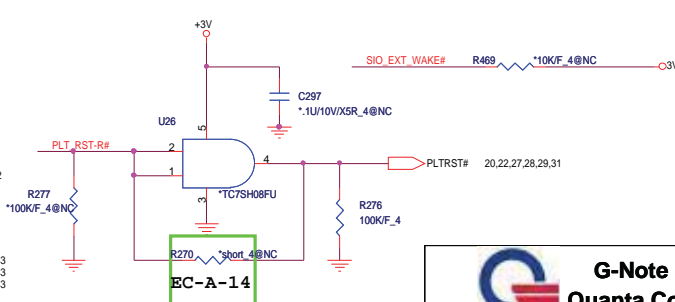
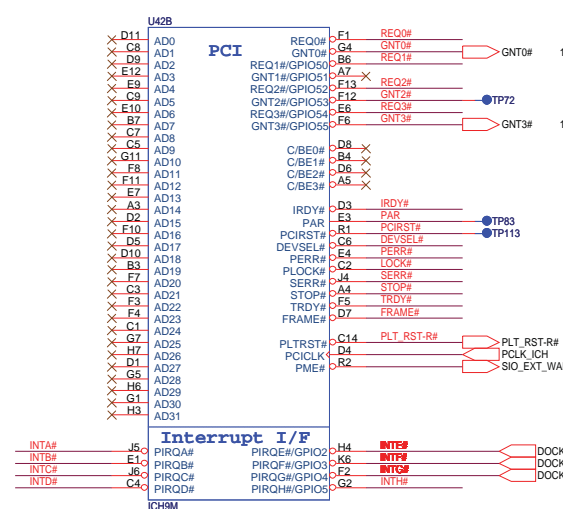
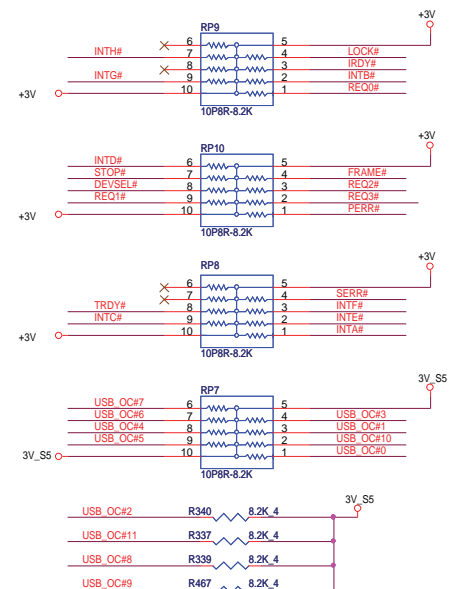
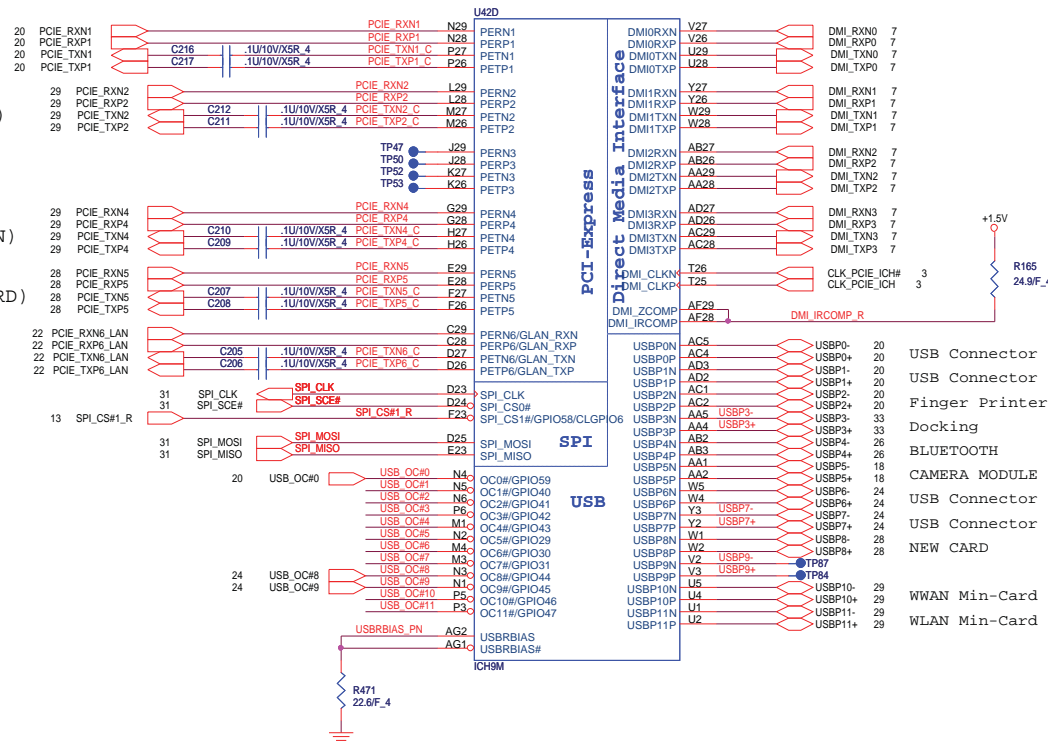
CARD-READER

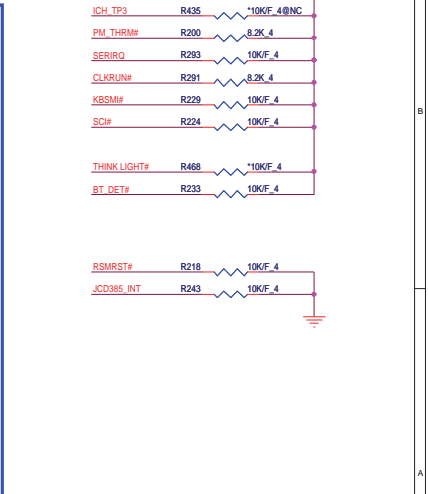
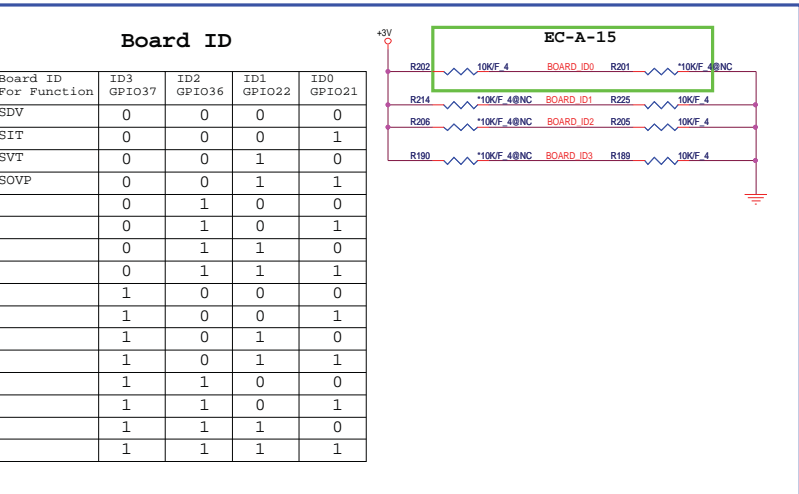
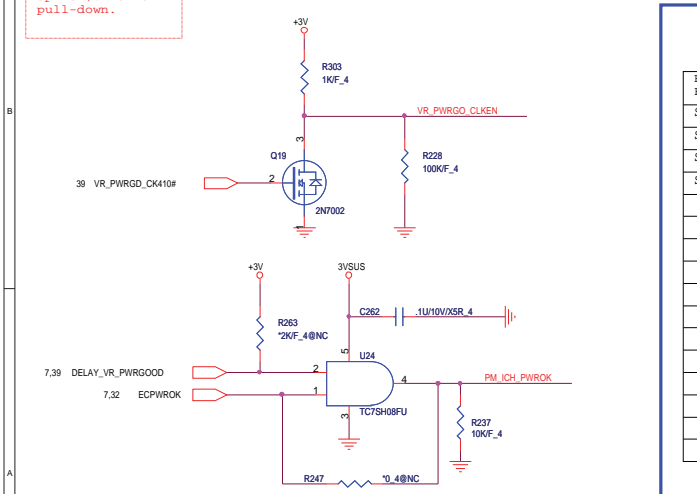
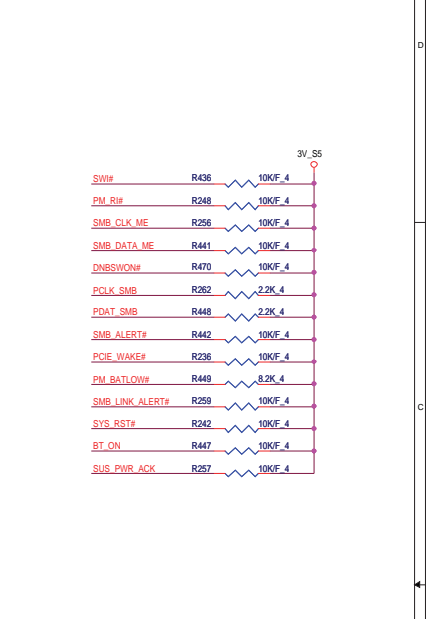
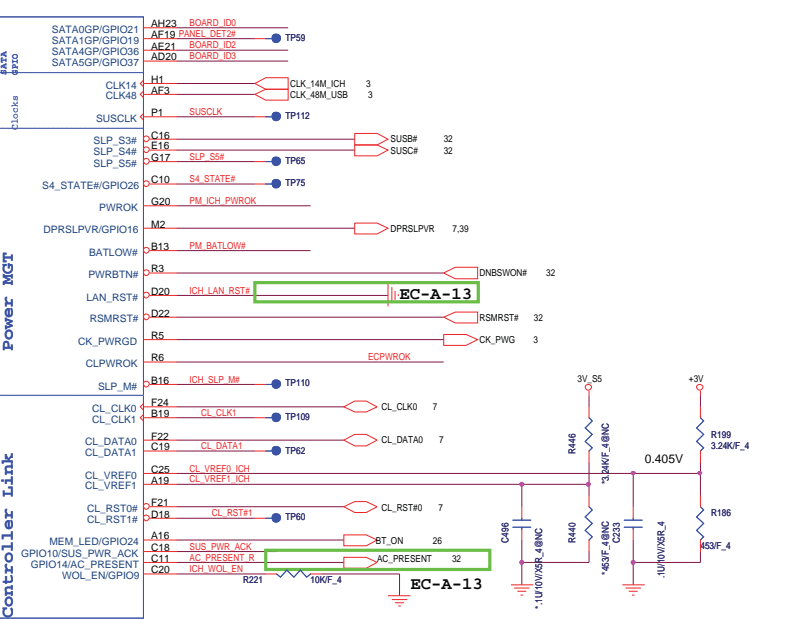
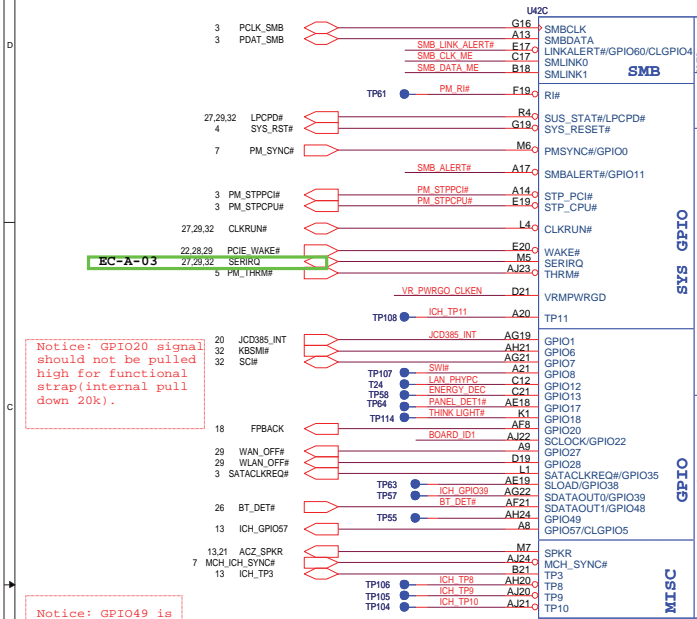
EXPRESS CARD (WWAN)

MINI CARD PCI-E(WLAN)

Express Card(NEW CARD)

PCI-E-LAN





Board ID	ID3	ID2	ID1	ID0
For Function	GPIO37	GPIO36	GPIO22	GPIO21
SDV	0	0	0	0
SIT	0	0	0	1
SVT	0	0	1	0
SOVP	0	0	1	1
	0	1	0	0
	0	1	0	1
	0	1	1	0
	0	1	1	1
	1	0	0	0
	1	0	0	1
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	1	1	0	1
	1	1	1	0
	1	1	1	1

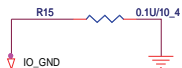


ICH9-M Power 4/4

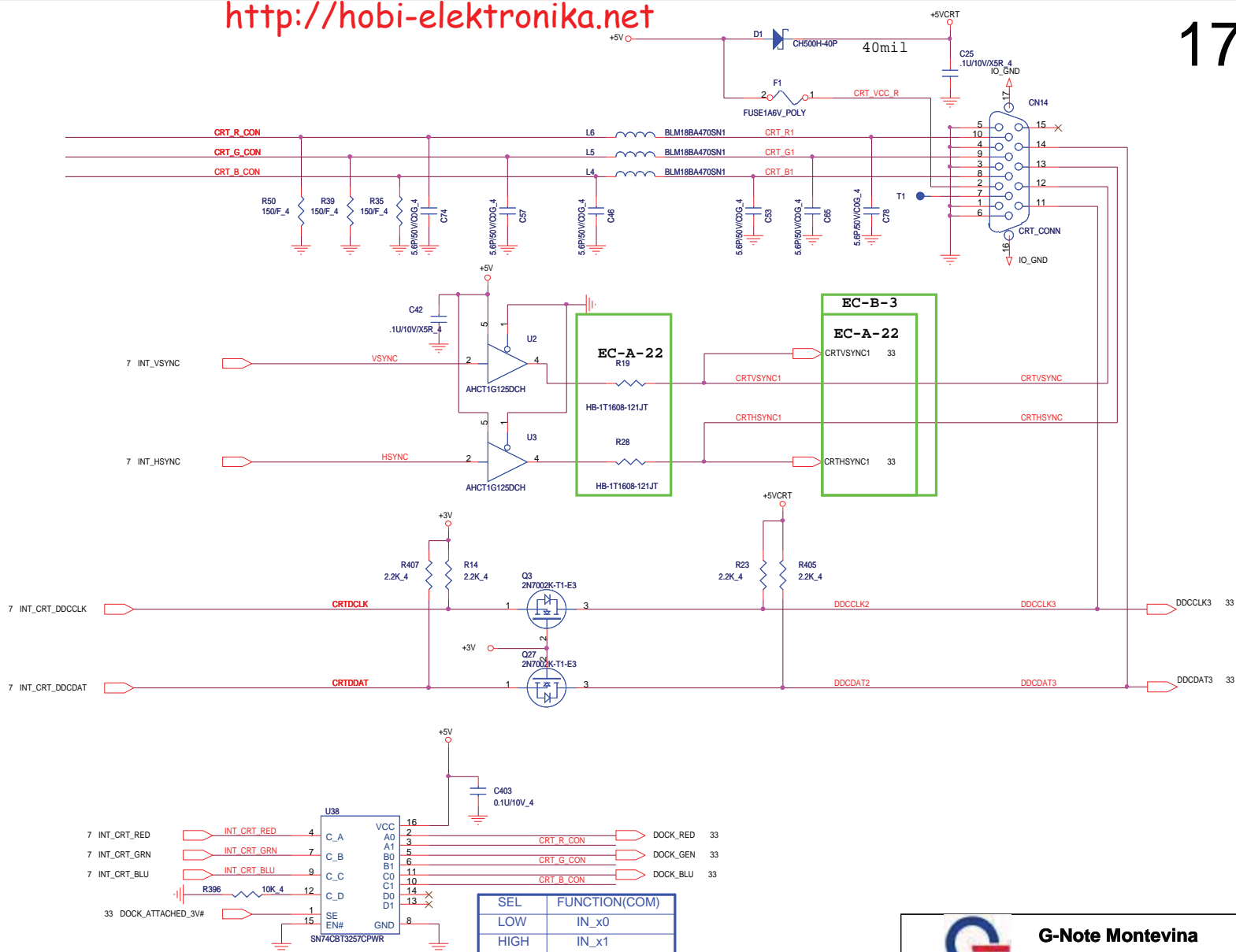
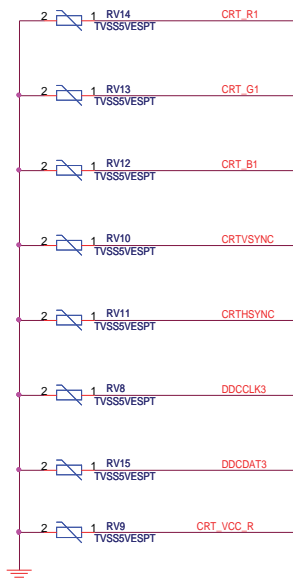
Size	Document Number
Custom	ICH9-M Power 4/4
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CRT PORT

EMI



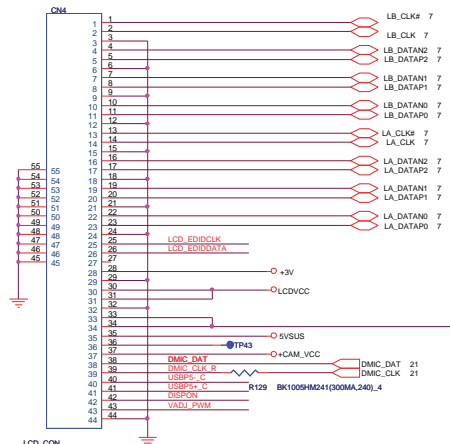
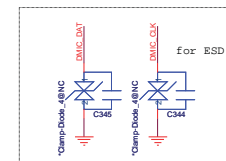
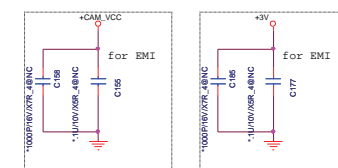
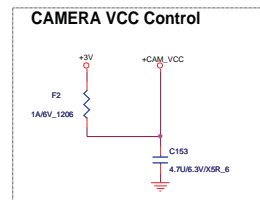
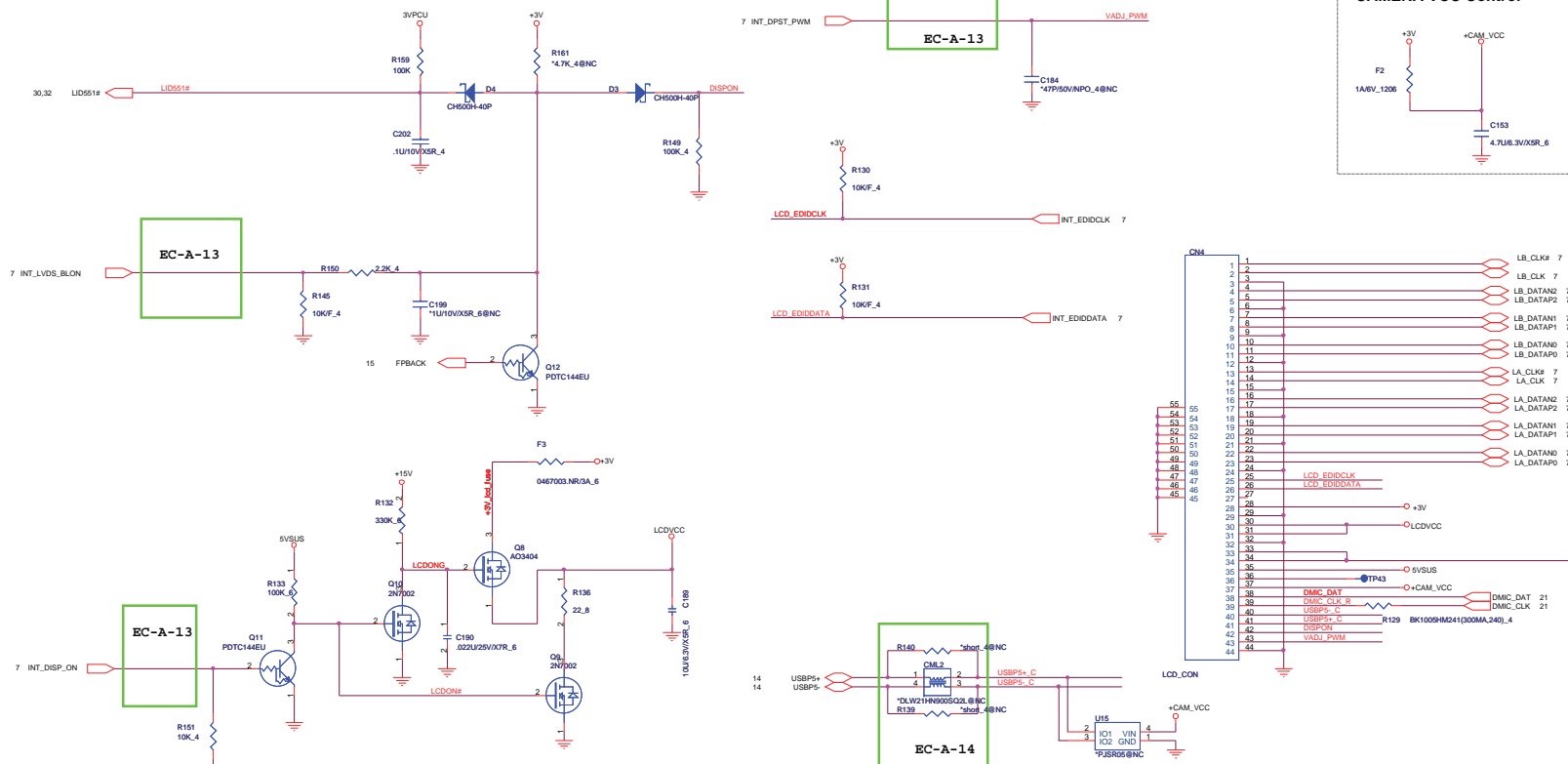
ESD PROTECTION close CRT connector



LCD panel control & connector

<http://hobi-elektronika.net>

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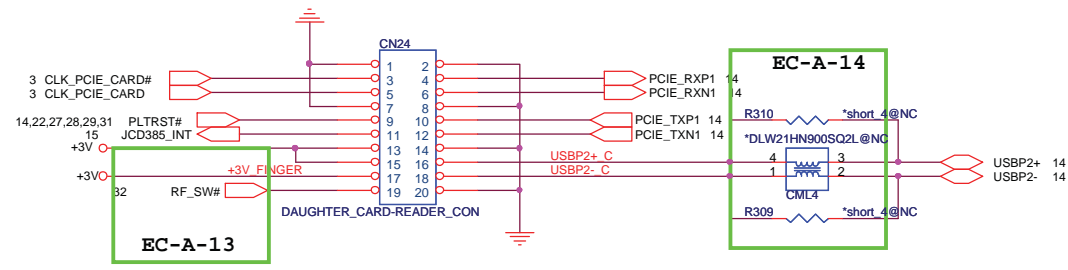


EMI:trace DMIC_CLK should reference with GND

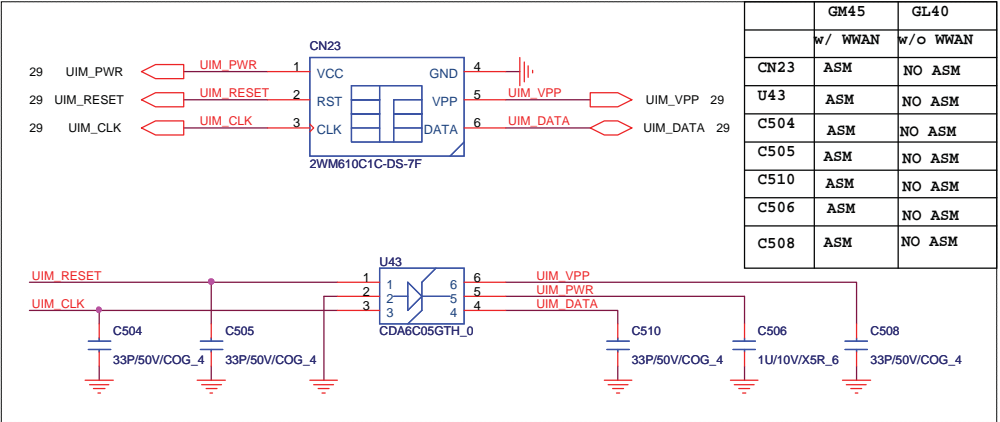
G-Note Montevina
Quanta Computer Inc.

Size	Document Number	Rev
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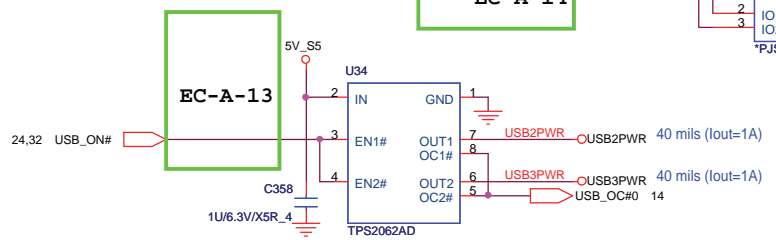
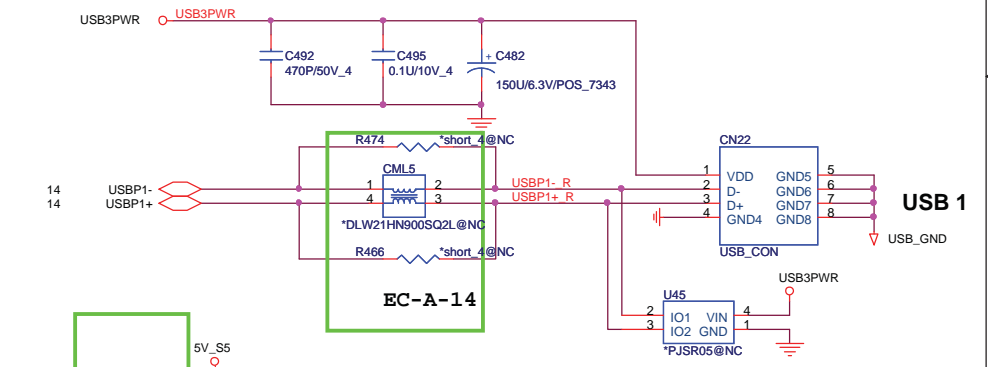
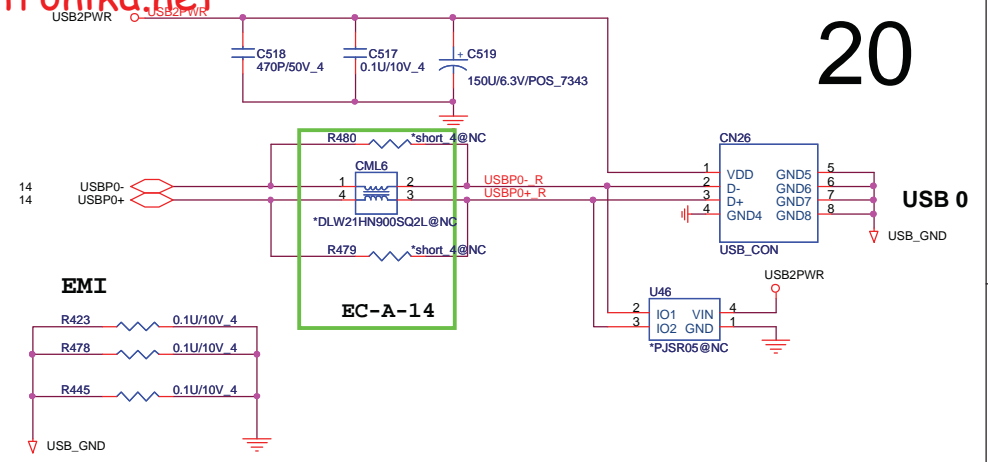
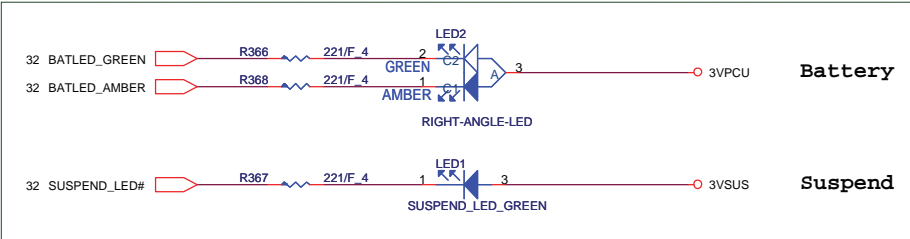
WIRE TO BOARD CONN CARD READER & FINGERPRINT




SIM Card CONN



FRONT LEDs

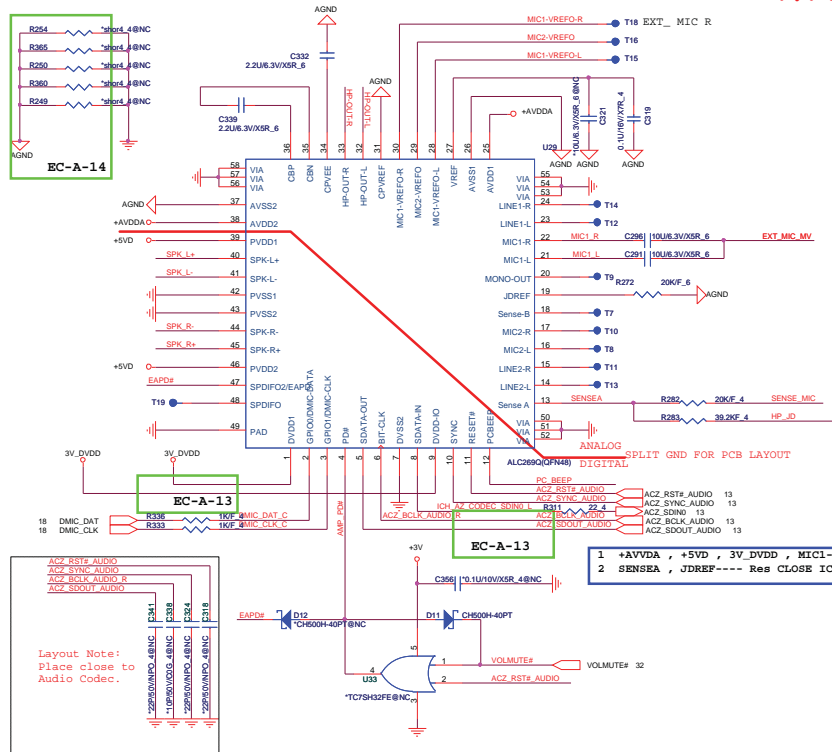




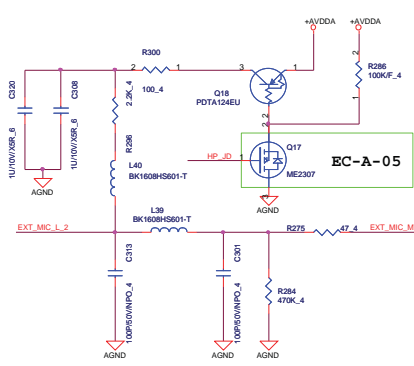
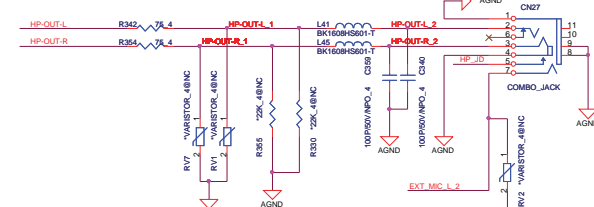
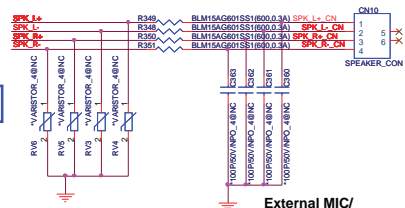
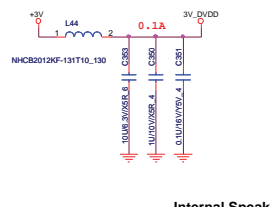
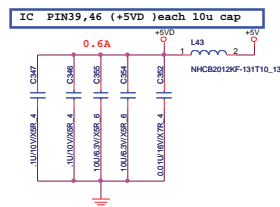
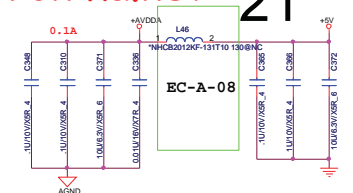
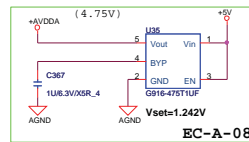
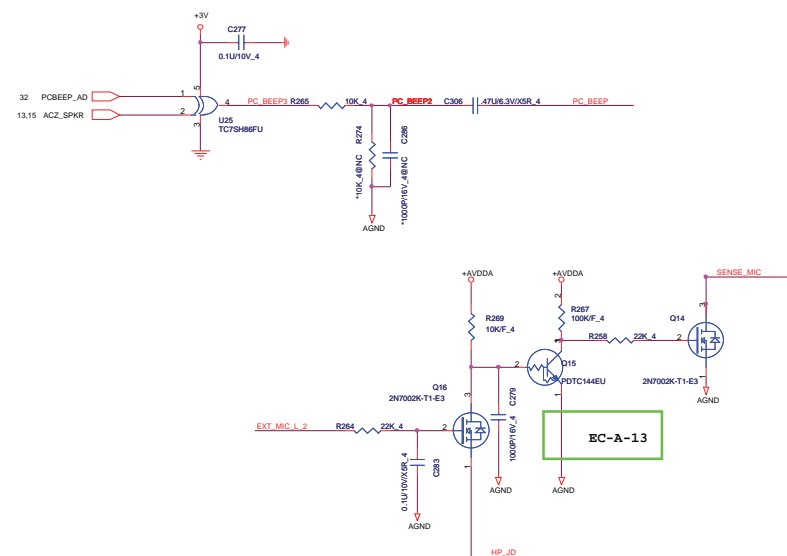
PROJECT :G NOTE
Quanta Computer Inc.

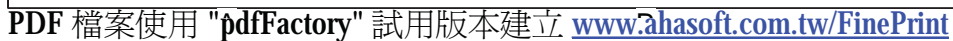
Size Custom	Document Number USB X2/SIM_CARD/LEDs/RF	Rev 1A
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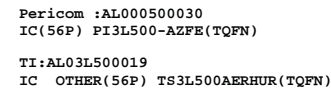
HDAudio Codec



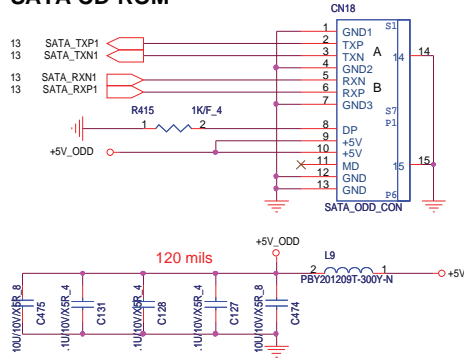
PC BEEP Control



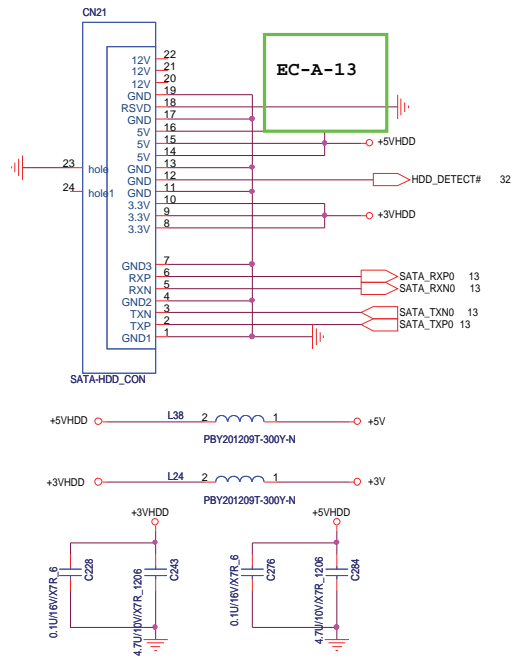




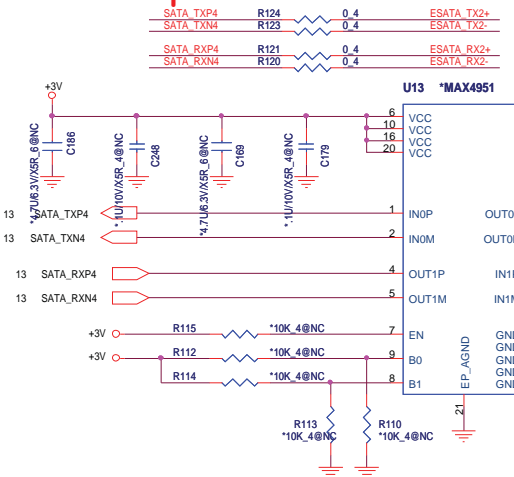
SATA CD-ROM



SATA-HDD



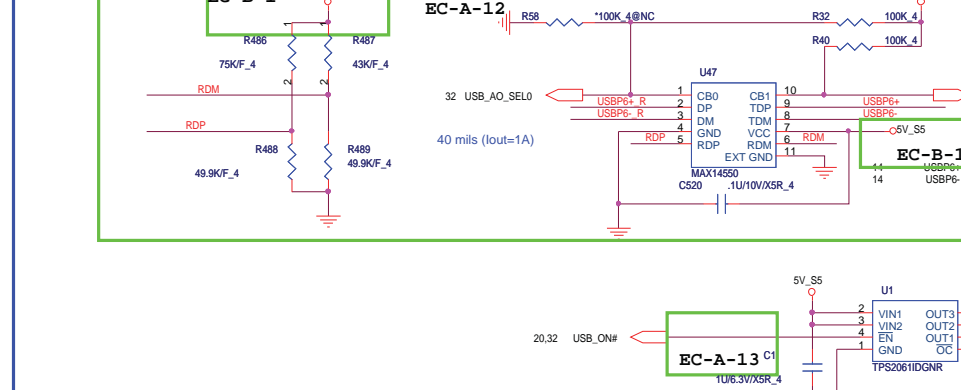
E-SATA RE-DRIVER



E-SATA RE-DRIVER table

EN	BC	B1	FUNCTION
0	x	x	Standby
1	0	0	Standard SATA Output
1	1	0	Ch 0 Boost Output
1	0	1	Ch 1 Boost Output
1	1	1	Ch 0,1 Boost Output

USB x1

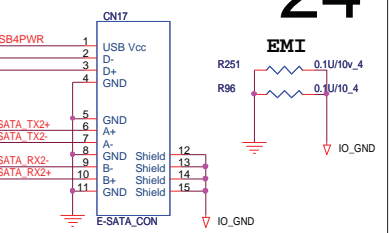


AUO3: Always on USB Ver.3 table

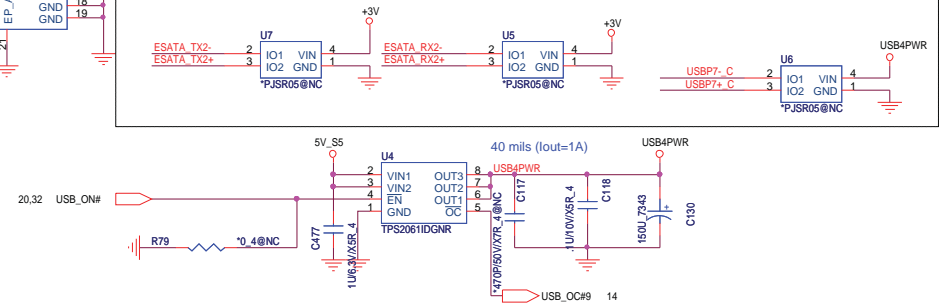
	AUO3 Support	AUO3 No Support		INT	EXT (default)
			R486	No ASM	75k
			R488	0	49.9k
			R487	No ASM	43k
			R489	No ASM	49.9k
U47	ASM	No ASM			
R32,R40	ASM	No ASM			
R6,R7	No ASM	ASM			
R58	No ASM	ASM			

#	0	1	function
0	0	0	auto detection
0	1	0	Force Black berry mode
1	0	0	Force Ext. circuit mode
1	1	1	Path through mode (Default)

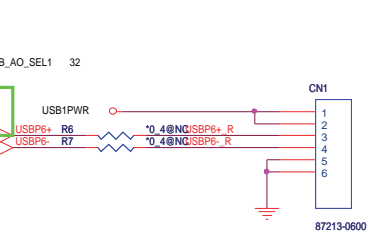
eSATA PORT



ESD:close conn



REAR_USB/B connector



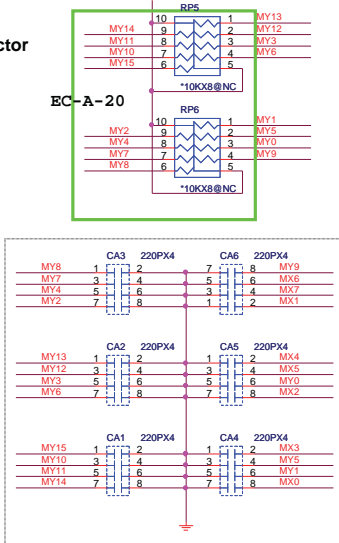
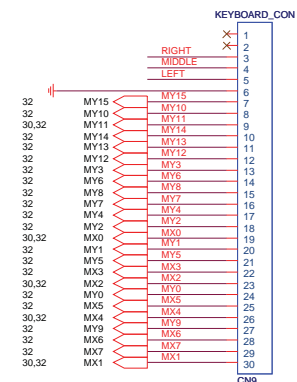
G-Note Montevina
Quanta Computer Inc.

Size: Custom Document Number: SATA HDD/ ODD/ eSATA/USB Rev 1A

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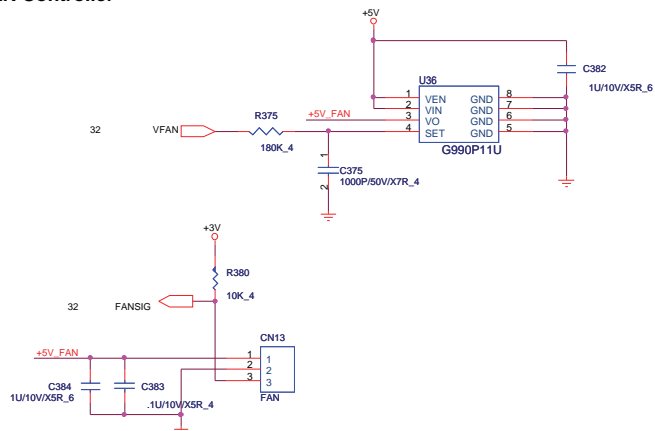
FAN, K/B, T/P & Track Point

KEYBOARD connector

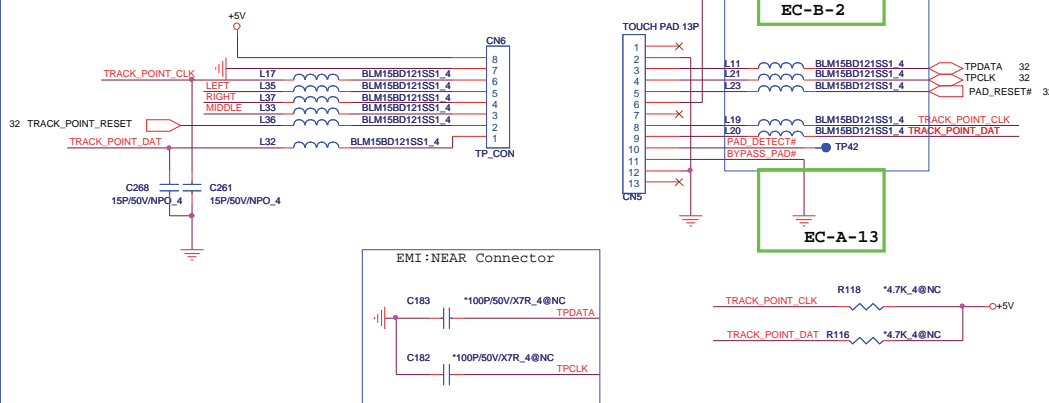


For EMI request

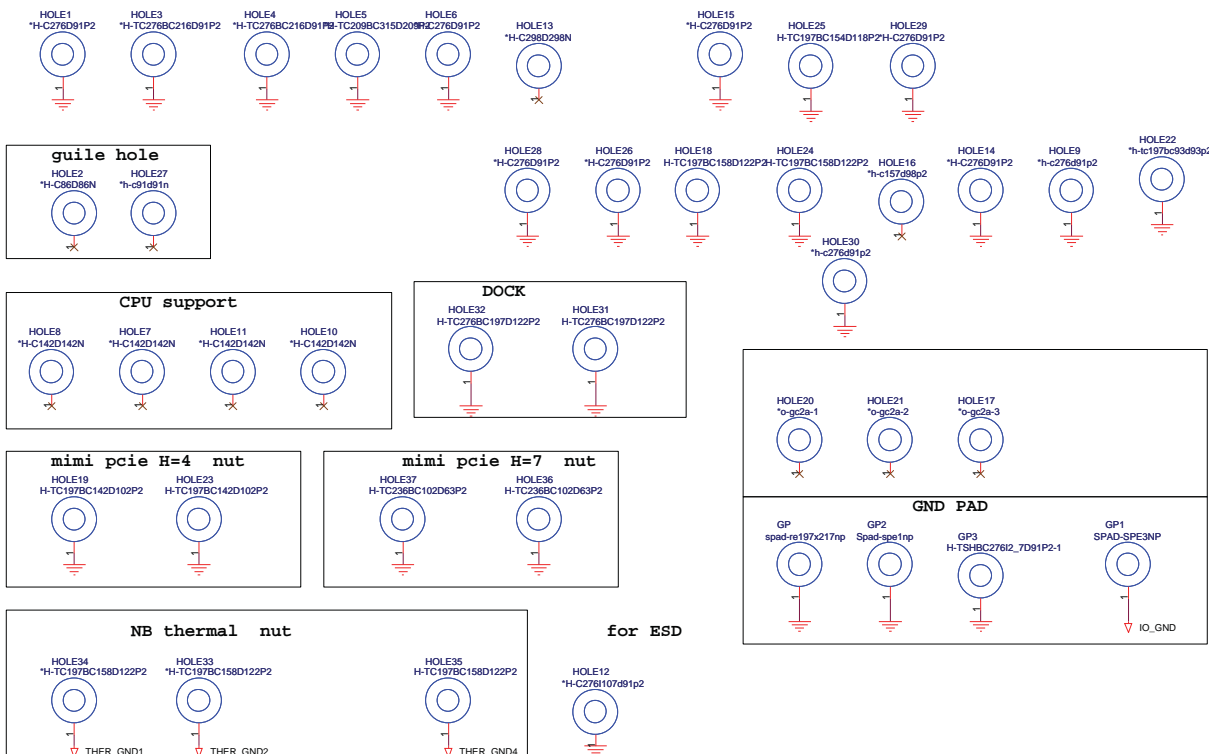
FAN Controller

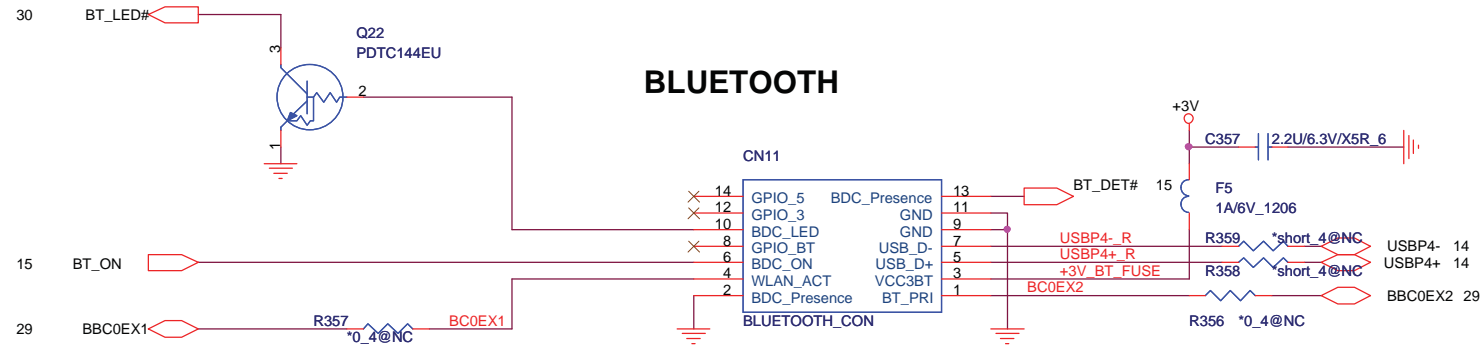


TRACK POINT TOUCH PAD



SCREW HOLE/GNDPAD

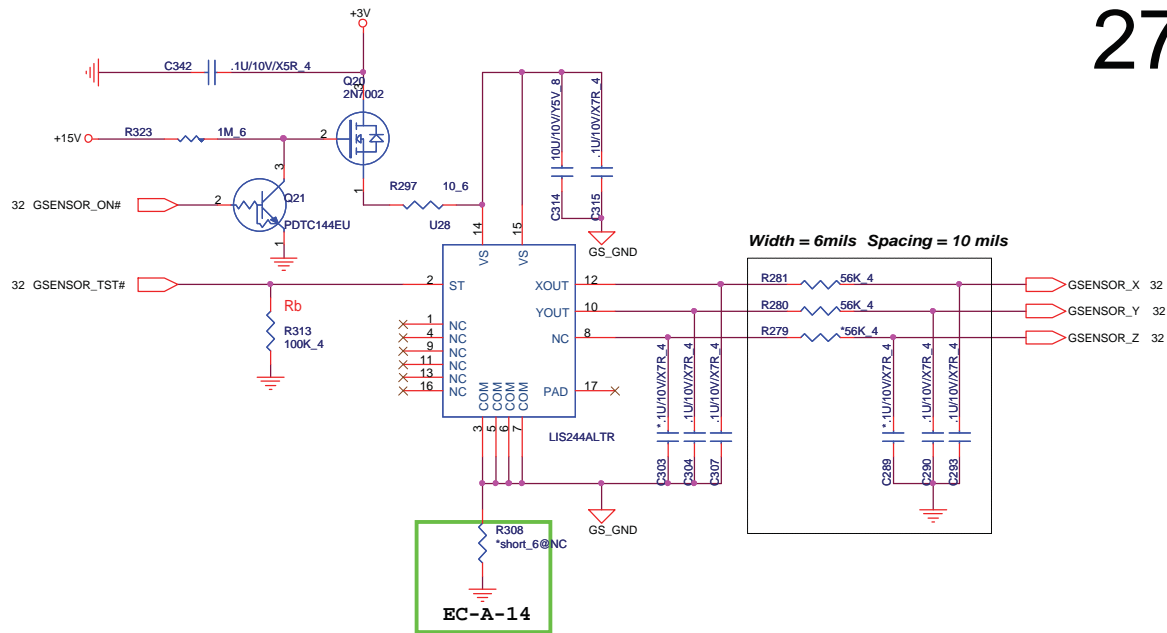




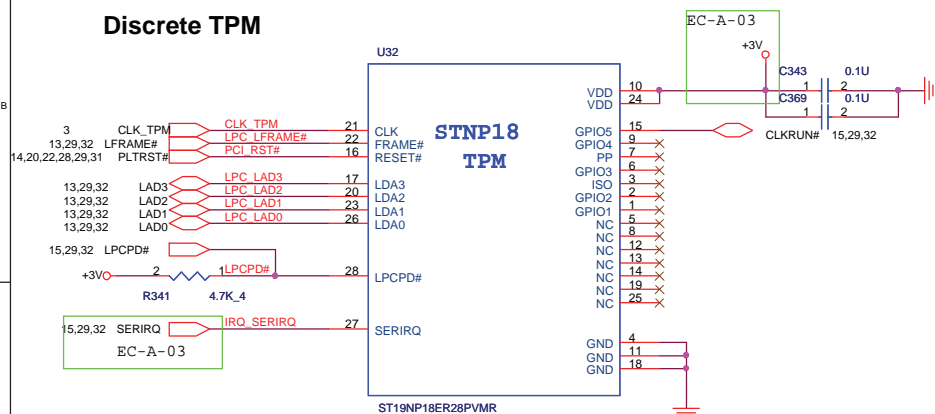
G-Note Montevina
Quanta Computer Inc.

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G-SENSOR (2-Axial)

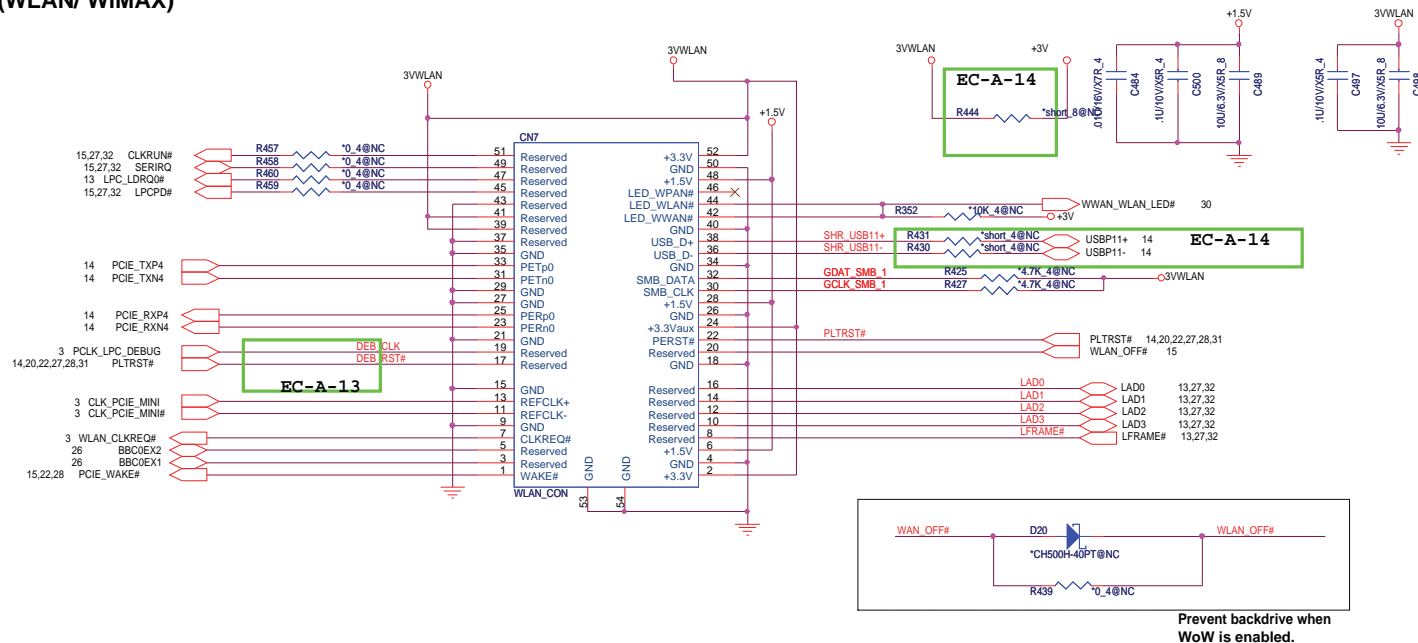


Discrete TPM

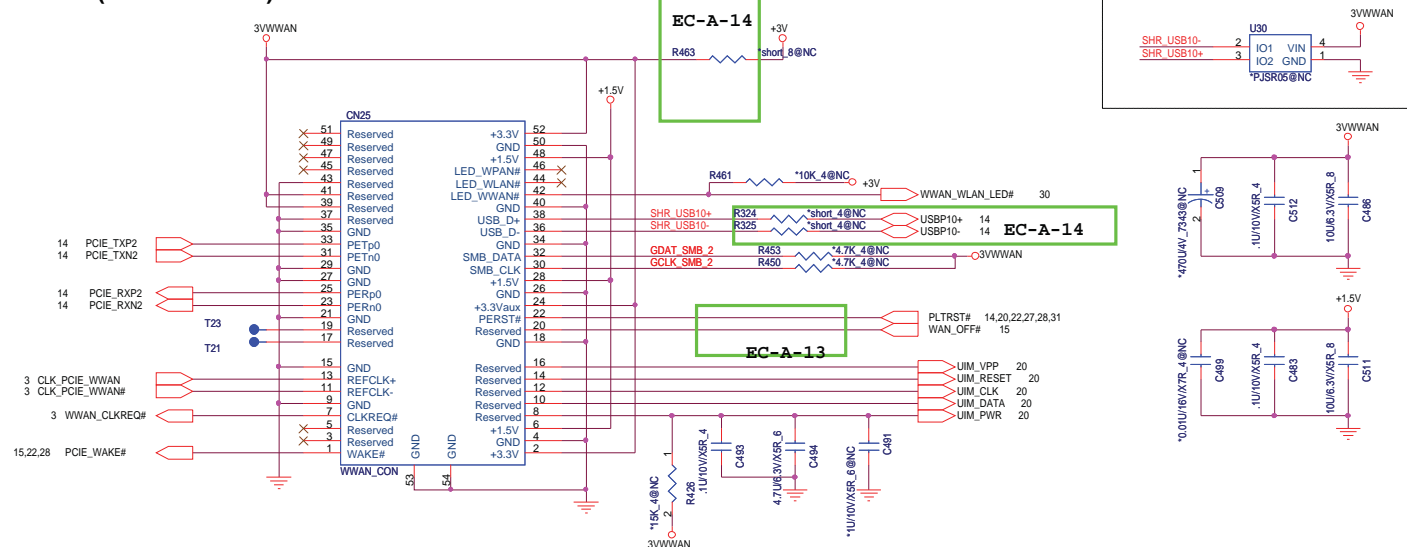


supplier P/N:ST19NP18ER28PVMR
Quanta P/N:AL19NP18K13
F/P:tssop28-6_4-65-1_2h

Mini PCI-E Card (F2) (WLAN/ WiMAX)



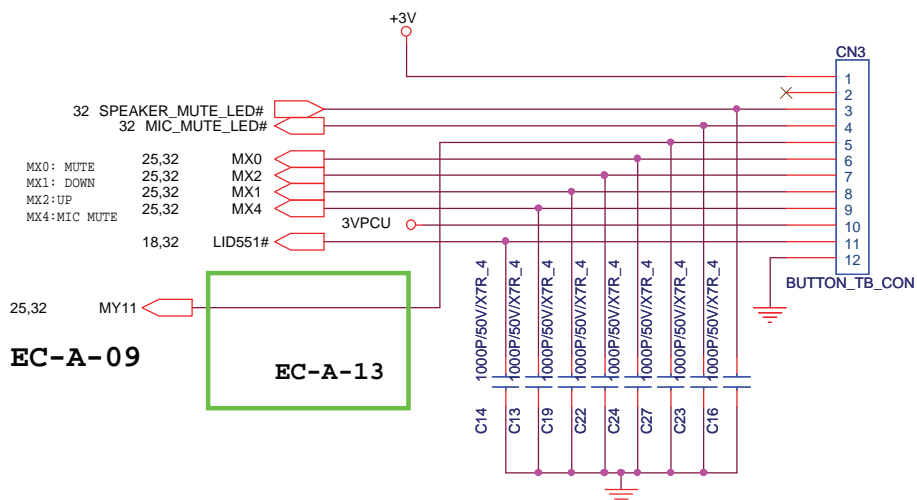
Mini PCI-E Card (F1) WWAN(W/SIM/Robson)



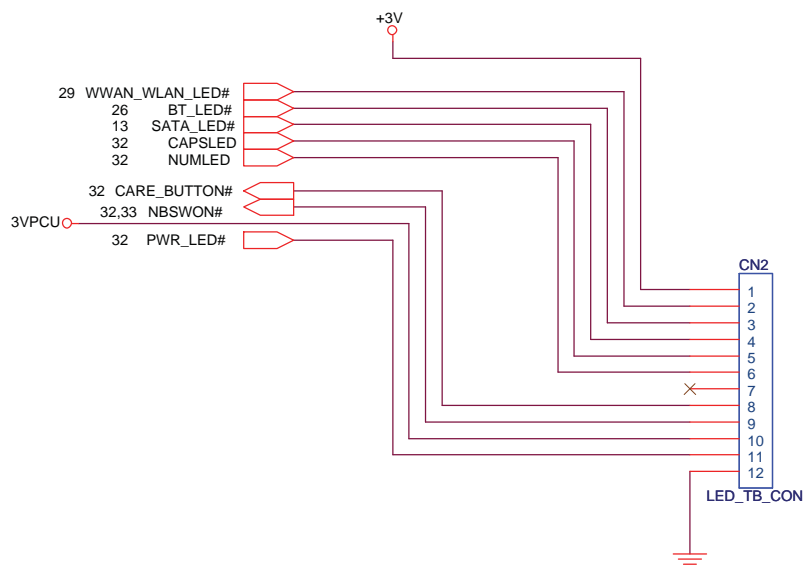
	GM45	GL40
	w/ WWAN	w/o WWAN
CN25	ASM	NO ASM
C493	ASM	NO ASM
C494	ASM	NO ASM
C483	ASM	NO ASM
C512	ASM	NO ASM
C486	ASM	NO ASM
C511	ASM	NO ASM

Daughter Boards for LEDs & Ports

FFC TO KBD LEFT SIDE CONNECTOR



FFC TO LED RIGHT SIDE CONNECTOR

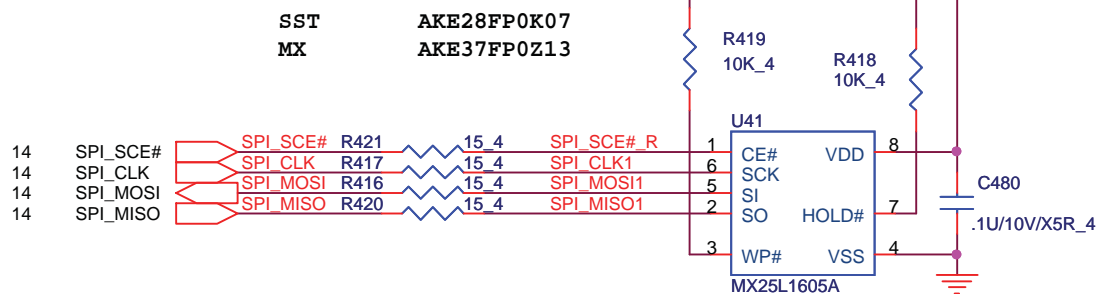


G-Note Montevina
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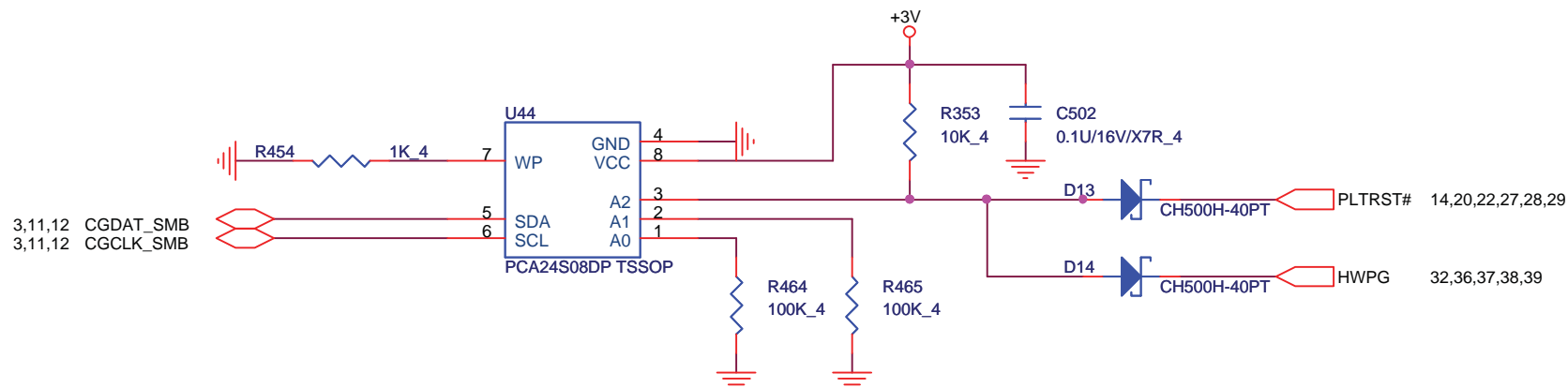
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SPI EEPROM

16Mbit (2M Byte), SPI

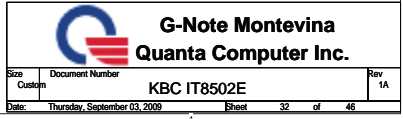


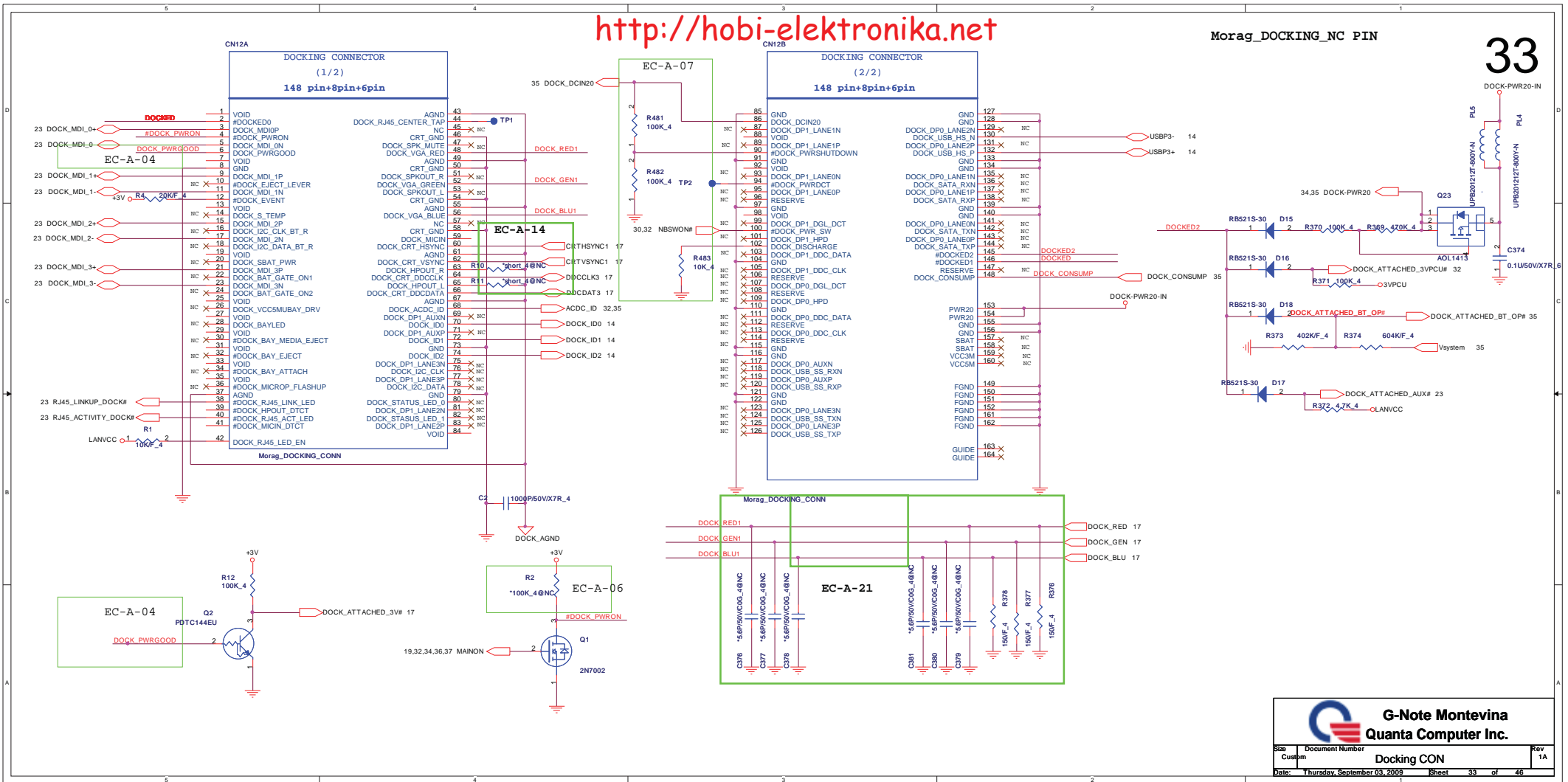
RFID EEPROM



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Quanta Computer Inc.**

Size A	Document Number RFID&ITPM EEPROM	Rev 1A
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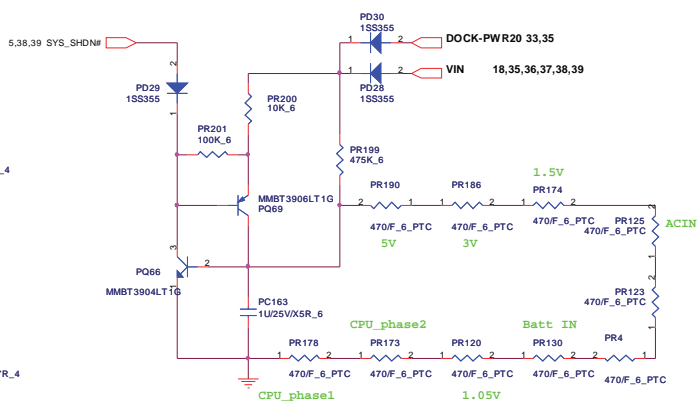


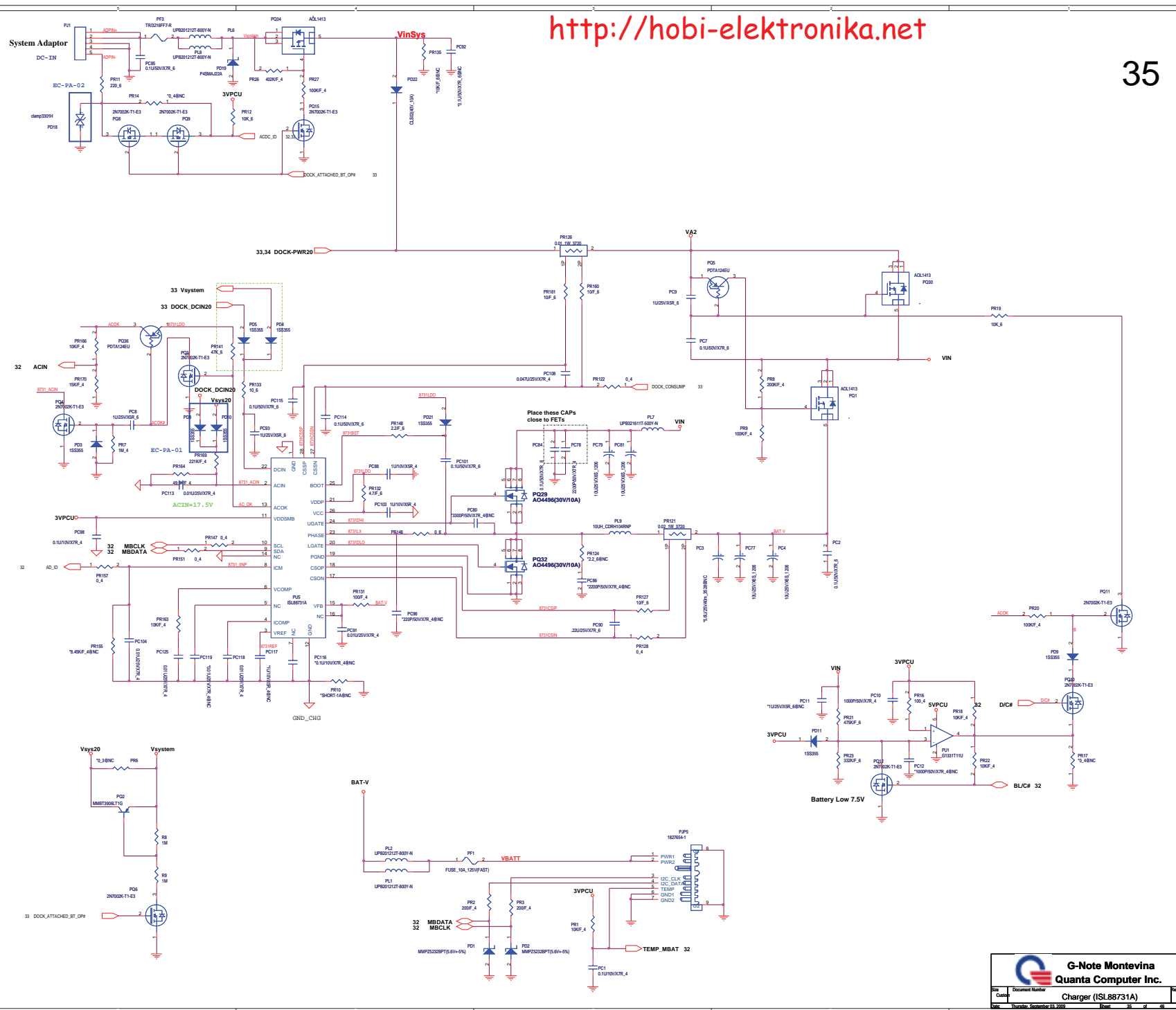


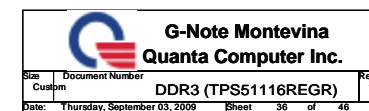
+3V, +5V

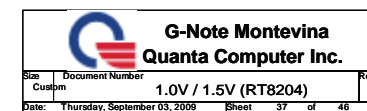
[illegible]

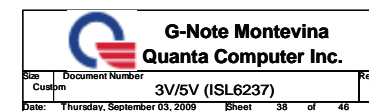
The schematic diagram illustrates the LAN power supply circuit. It features three MOSFETs (PQ20, PQ18, and PQ19) driven by 5VPCU, LANVCC, and +15V respectively. The gates are connected to the drains. The sources are connected to ground. The drains are connected to the LAN_POWER input (32 LAN_POWER) and the LAN_ON output (LAN_ON).

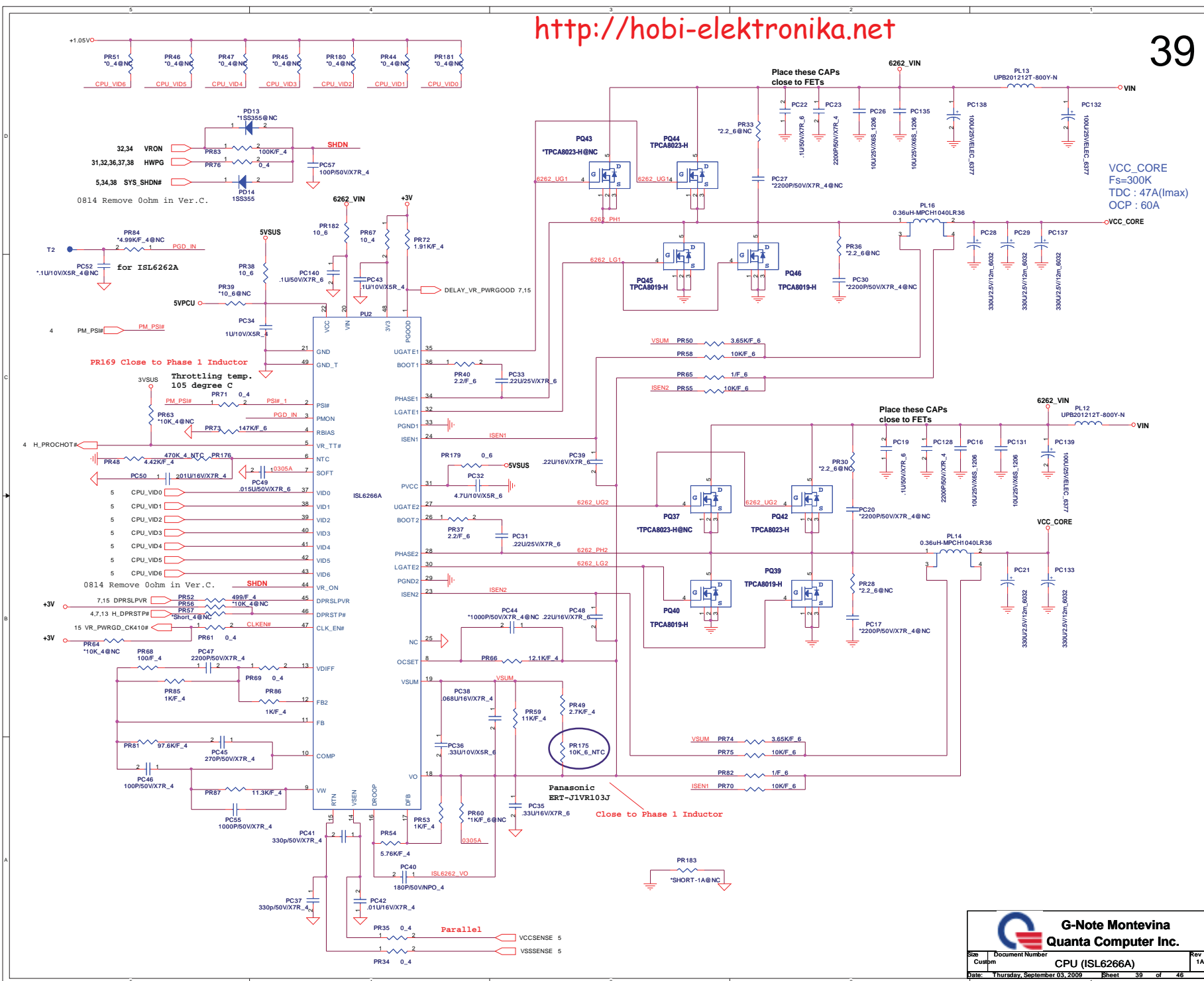
[illegible]

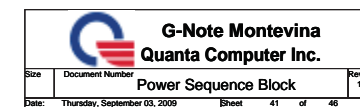












Revision History

Revision	Date	Phase	Change List	Release Schematic Date	Release Gerber File Date
1A		DV	Initial release		

Schematic Value Explanation Description :

RESISTOR


Value	F	4	6	8	12	1210	*	Description
*1K/F_4@NC	1%	0402 (1005)					DE POP	1K ohm 1% SMD 0402 package and DE POP
1K_6	5%		0603 (1608)				POP	1K ohm 5% SMD 0603 package and POP
1K_8	5%			0805 (2125)			POP	1K ohm 5% SMD 0805 package and POP
1K_12	5%				1206 (3216)		POP	1K ohm 5% SMD 1206 package and POP
1K_1210	5%					1210 (3225)	POP	1K ohm 5% SMD 1210 package and POP

CAPACITOR


Value	Voltage	Material	6				*	Description
*0.1U/10V/X5R_4@NC	10V	X5R	0402 (1005)				DE POP	0.1UF 10V X5R SMD 0402 package DE POP
1U/25V/X7R_6	25V	X7R	0603 (1608)				POP	0.1UF 25V X7R SMD 0603 package POP

Location					Page

stage	EC NO.	Page	Location	description
EC-A-01	9,10		C47,C51,C58,C71,C82,C75,C66,C52	change to 0603 For height limit
EC-A-02	22		r107,r111,r117,r125	change to 0603 for hi po
EC-A-03	27			SERIRQ,+3v connect to correct
EC-A-04	33		del R3,R13	DOCK_PWRGOOD(active high) for crt switch
EC-A-05	21		Q17	change footprint (P mos)
EC-A-06	33		R2	R2 no asm, dock site already pull up
EC-A-07	33		R481,R482,R483	DOCK_PWR20-IN do not trun on when AC Adapter(at Dock) plugged. Dock#102(D/C#) pin is not low at default.---r483 No power at 5V_AL--r481,r482
EC-A-08	21		U35,L46,C367	mic noise issue
EC-A-09	7		R43,R44	R43,R44 no asm for display port(port B)
EC-A-10	19			SDVO,AUX swap
EC-A-11	31			change SPI rom power plane to 3v_S5(EC Chei-ho)
EC-A-12	24		removed R6,R7 Add U47,C520,R32,R40 R488 use 0ohm	usb switch circuit
EC-A-13			3:R222,R235,R196,R195,141,R142 RP1,RP2,RP3,RP4 4:R32 5:R388 7:R414,R61,R64 10:R401,R400,L2,R58,R88,R40,R28,R412,L54,R408,R395 11:R108 15:R301 R232 16:R268,R289,R452 R191 R424 R253 R472 R475 R476 R290 R477 R164 R223 R288 18: R147 R122 R146 R106 20: R451 R361 21: R320 R306 R278 22: R104 R102 R100 R98 23: R271 R5 25: R119 29: R438 R434 R443 30: R19 32: R319	0ohm no asm(reserved(,r121,r120,r123,r124)
EC-A-14			14: R270 18: R139 R140 19:R216 R212 R193 R188 R176 R160 R156 R169 R241 R231 20:R310 R309 R479 R480 R474 R466 21:R254 R265 R250 28:R360 R249 R168 R175 R430 R431 R444 R463 R324 R325 32 R302 33: R10 R11 26:R358 R359	0ohm use short pad
EC-A-15	15		R201,R202	change Board ID to SIT R201-->no ASM,R202--> ASM
EC-A-16	32		L30	change to 10ohm for GC2/3 g-sensor issue

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EC list		
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stage	EC NO.	Page	Location	description
EC-A-17	13		R472	add TPM strap
EC-A-18	13		BT1	change right footprint for smt
EC-A-19	22,23			correct act/ link singal name
EC-A-20	25		RP5,RP6	RP5,RP6 no asm by EC command
EC-A-21	33		L47,L48,L49 ,C376,C377,C378,C379,C380,C381 ,R376,R377,R378	L47,L48,L49 use 0ohm C376,C377,C378,C379,C380,C381 no ASM intel spec filter should be add in dock station R376,R377,R378 ASM(150ohm)
EC-A-22	17		R19,R28,L3,L7	H/Vsync Overshoot at Tf Vmax=1.5V issue L3,L7 use 0ohm R19,R28 use bead
EC-B-1	24			AU03 :U47 change power plane to 5v_S5
EC-B-2			L57	power combustion fail,EMI OK REMOVED
EC-B-3			del L3,L7,L47,L48,L49	0 ohm del



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EC NO.	PG.	DATE	PART REFERENCE	DESCRIPTION
EC-PA-01	35	7/23	PD8,PD10	Change to 1SS355 for improve leakage current
EC-PA-02	35	7/23	PD18	Reverse PD18
EC-PA-03	36	7/23	PR159	Change to 6.49k for OCP
EC-PA-04	36,37	7/23	PJP1,PJP2,PJP3,PJP4,PJP6,PJP7	Delete default open
EC-PA-05	36,37	7/23	PC25,PC134,PC109,PC110	Changefrom 330U/2V/9mohm to 330U/2.5V/15mohm for ESR
EC-PA-06	36	7/23	PC95	Add 100p for feedback stability
EC-PA-07	38	7/23	PL17,PL20	Change to CV-15A0MZ00 for epoxy



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