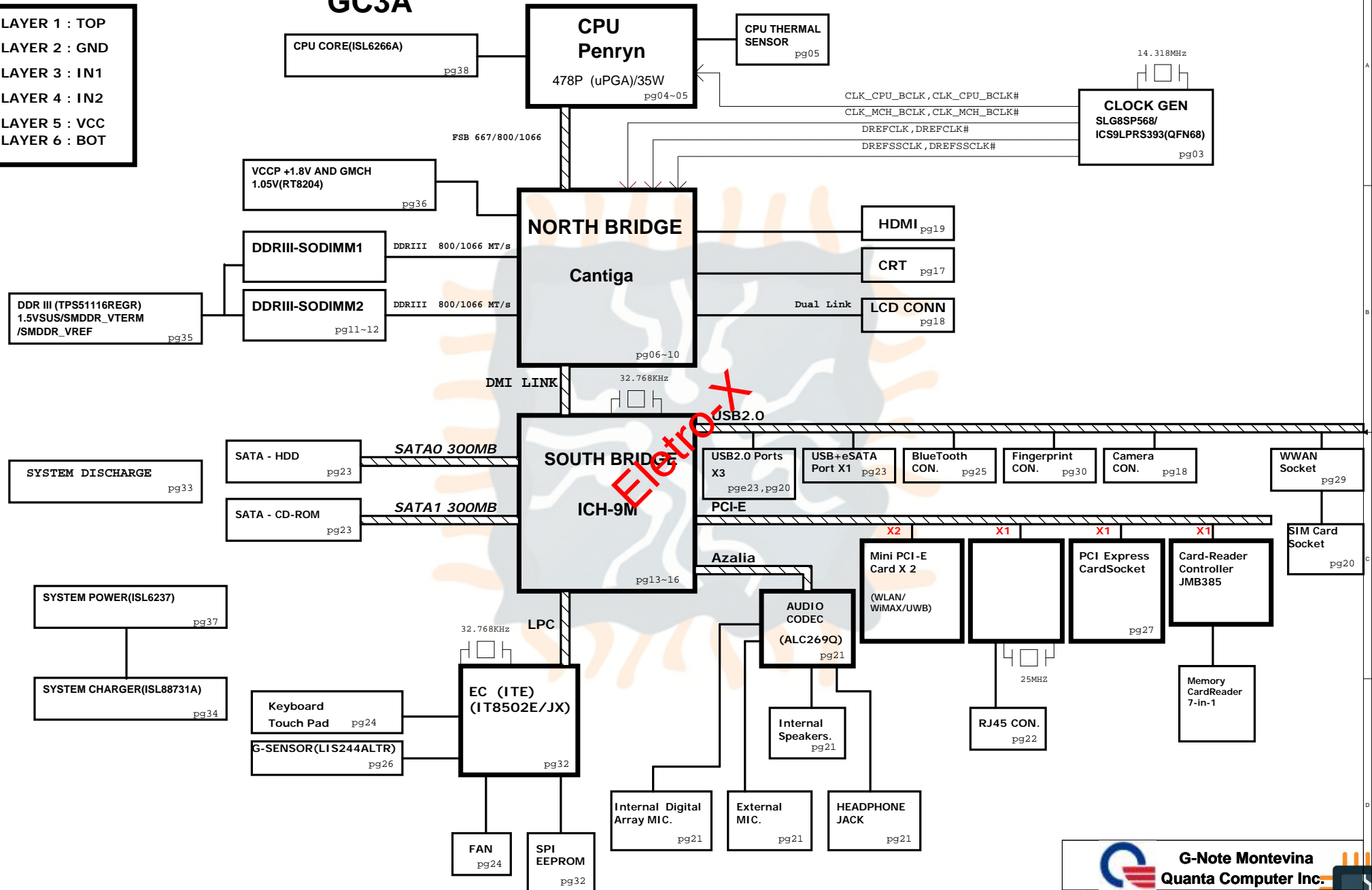


PCB STACK UP 6L

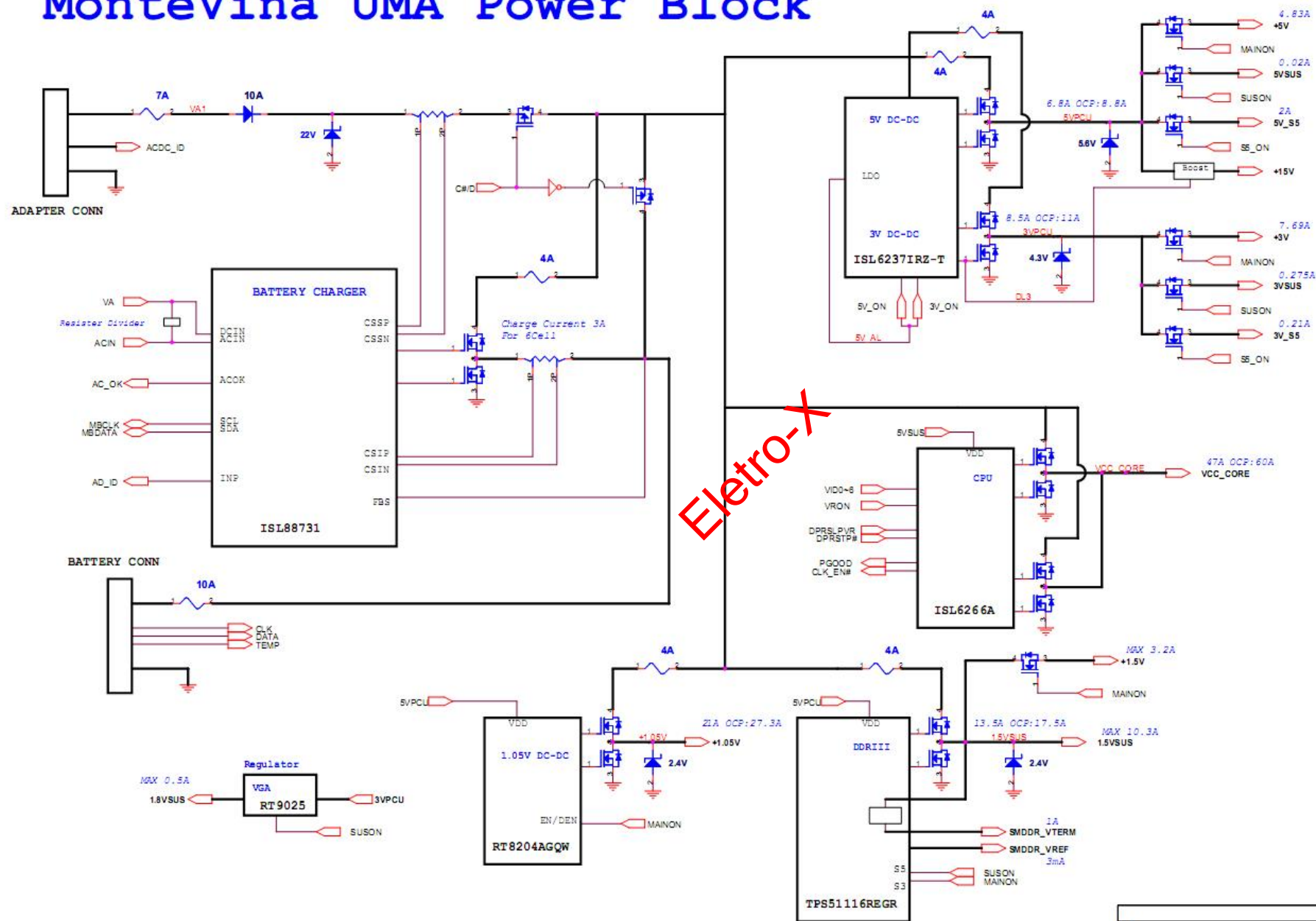
LAYER 1 : TOP
LAYER 2 : GND
LAYER 3 : IN1
LAYER 4 : IN2
LAYER 5 : VCC
LAYER 6 : BOT

G-Note Montevina Block Diagram GC3A

01

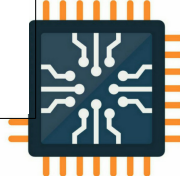


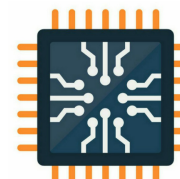
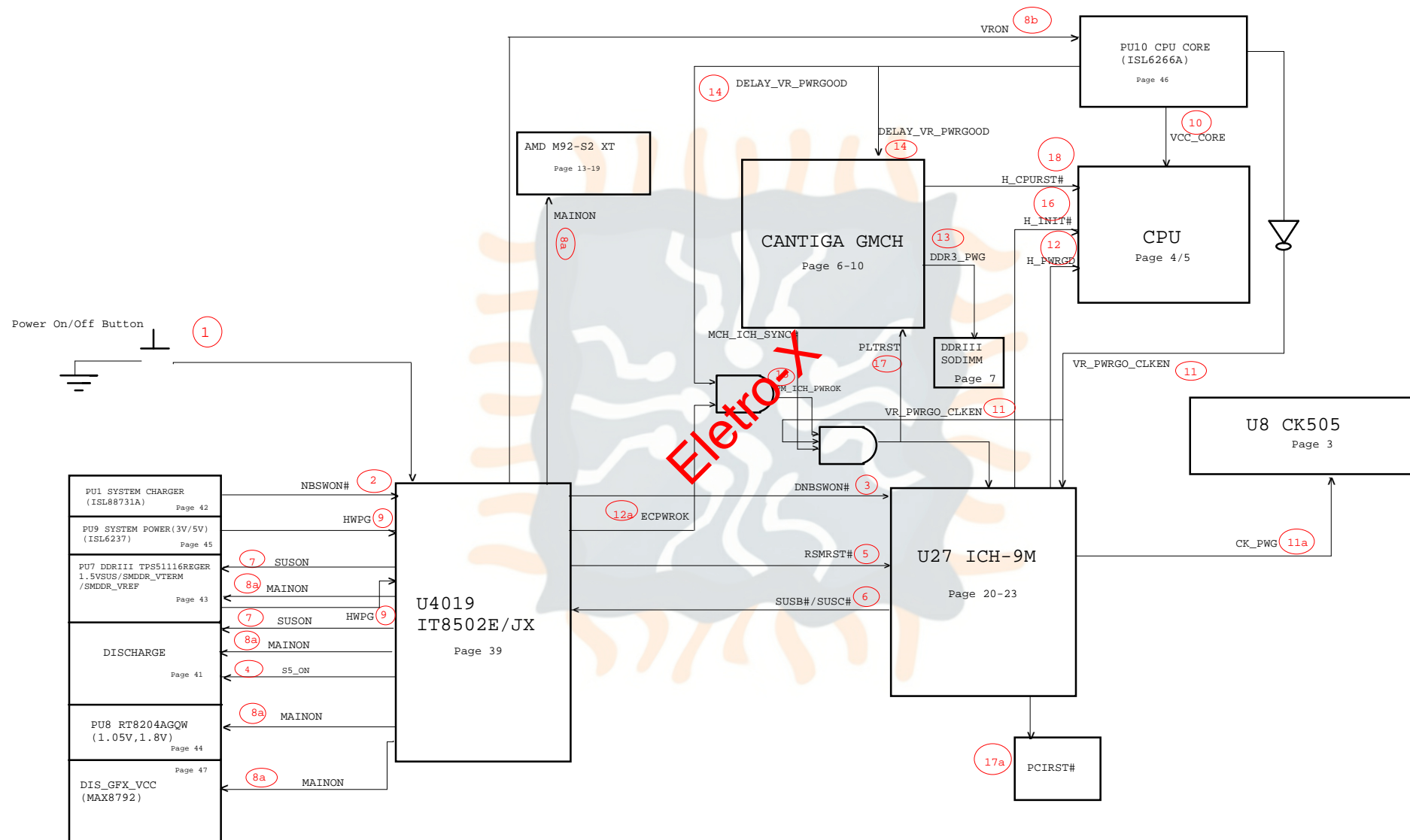
MonteVina UMA Power Block



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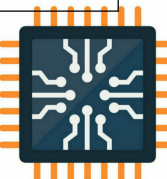
Power States

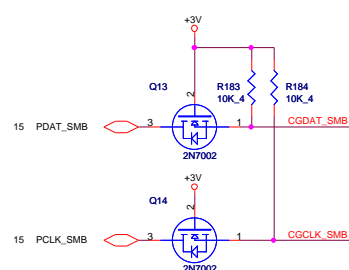
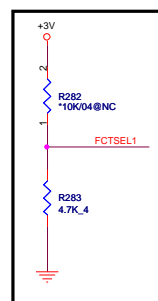
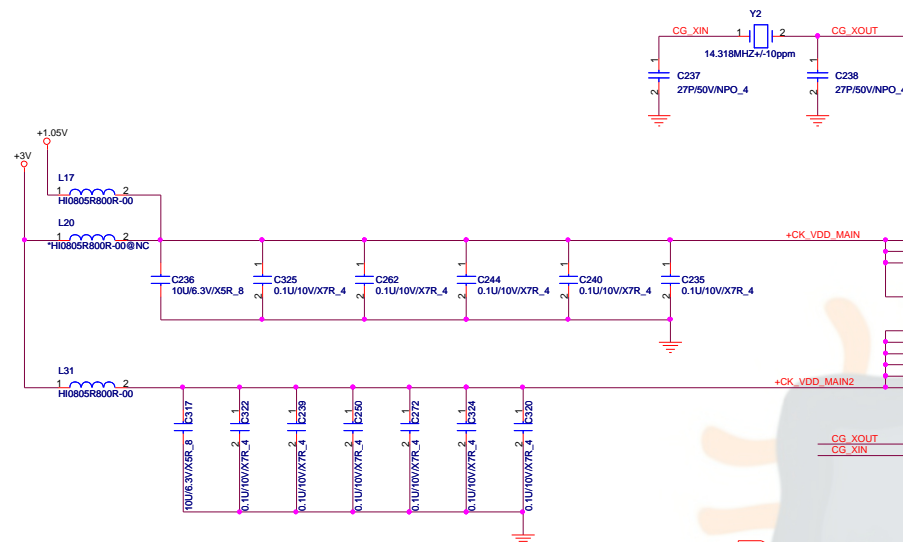
POWER PLANE	VOLTAGE	PAGE	DESCRIPTION	CONTROL SIGNAL	ACTIVE IN
VIN	10V~+19V	18, 33, 34, 35, 36, 37, 38, 39	MAIN POWER		S0~S5
+3VRTC	+3.0V~+3.3V	13, 16, 32	RTC		S0~S5
3VPCU	+3.3V	13, 18, 22, 24, 30, 32, 33, 34, 36, 37	8051 POWER		S0~S5
5VPCU	+5V	30, 33, 34, 35, 36, 37, 38	LCD/CHARGE POWER		S0~S5
+15V	+15V	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	INT_DISP_ON	
+5VHDD	+5V	23	HDD Power	MAINON	
MBATV	+10V~+17V	32, 34	MAIN BATTERY	D/C#	



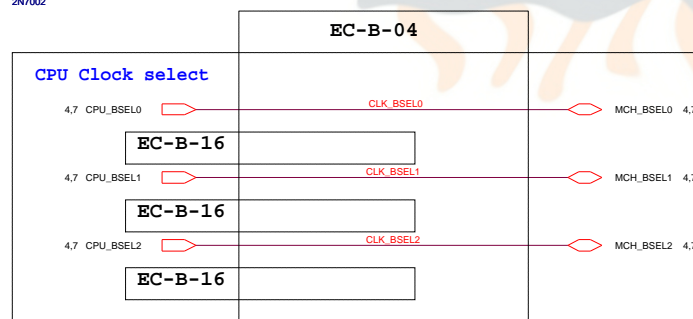
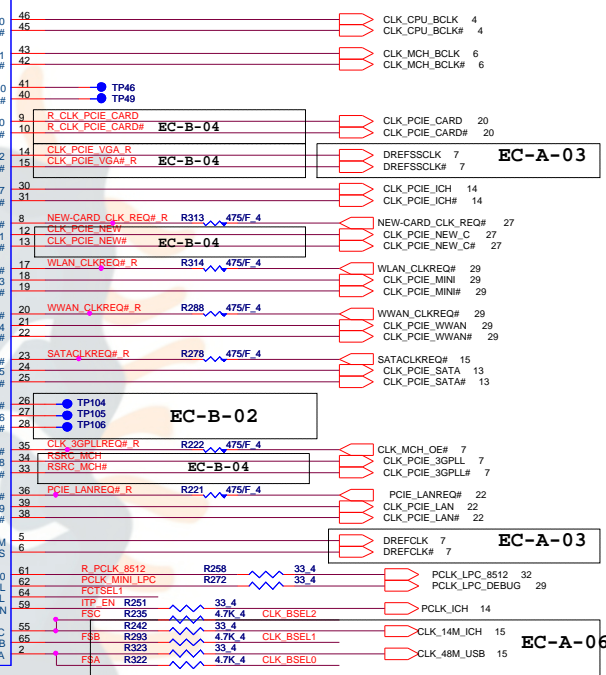
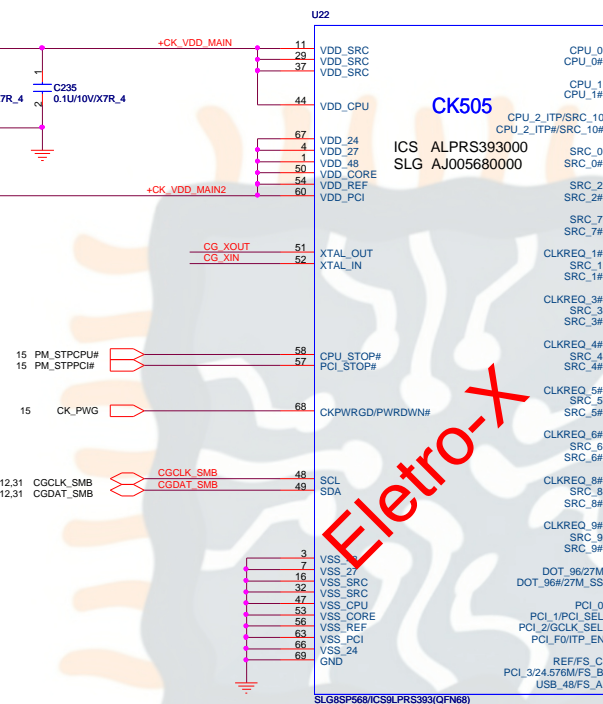
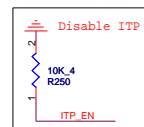
G-Note Montevina
Quanta Computer Inc.

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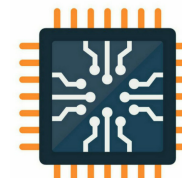
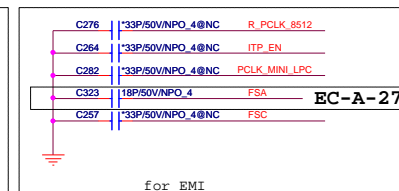




FCTSEL1 (PIN64)	PIN5	PIN6
0	DOT96	DOT96#
1	27Mout-NSS	27Mout-SS

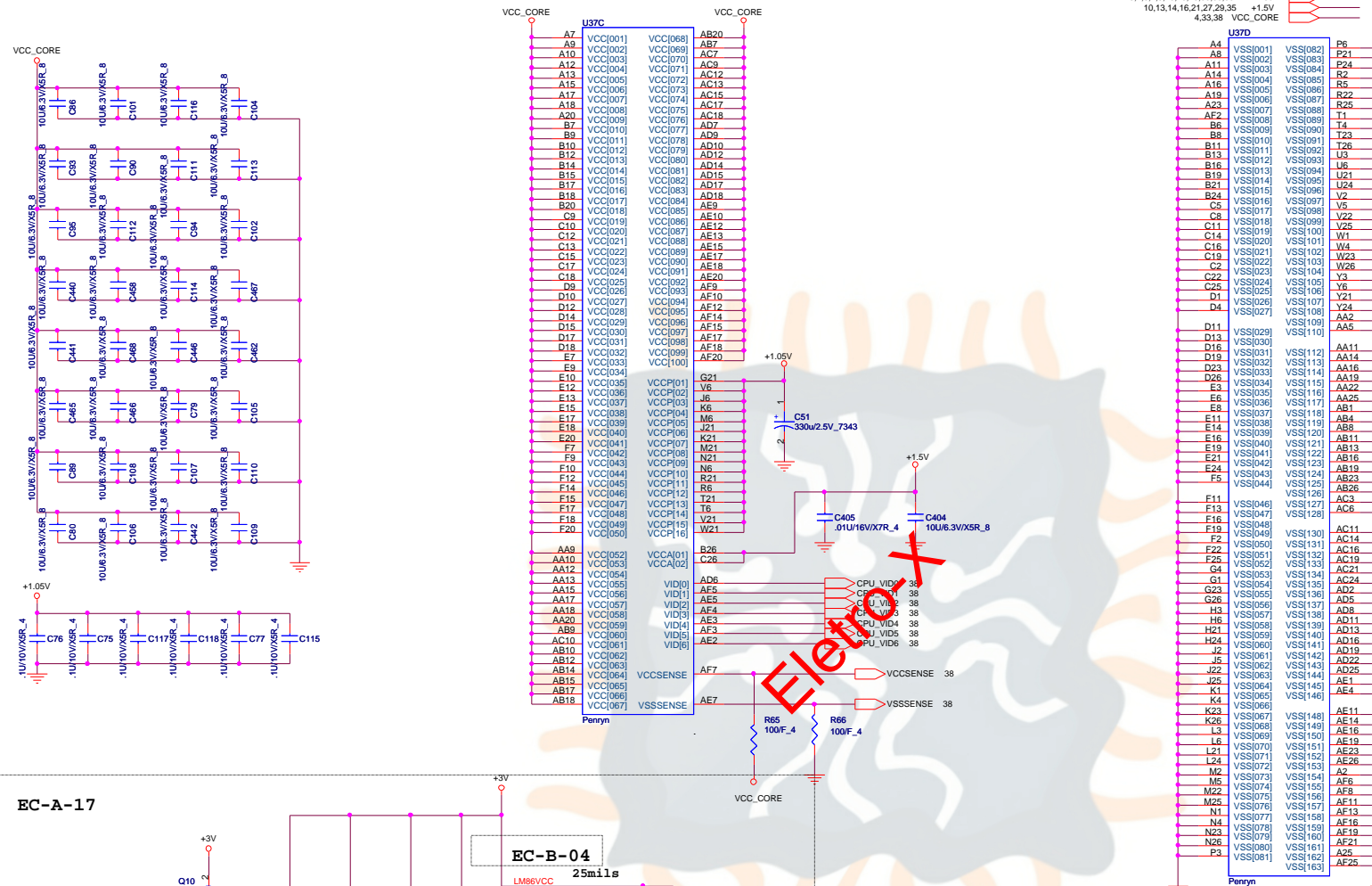


FSC	FSB	FSA	CPU	SRC	PCI
0	0	0	266.6	100	33
0	0	1	133.3	100	33
0	1	0	200.0	100	33
0	1	1	166.6	100	33
1	0	0	Reserved		
1	0	1	Reserved		
1	1	0	Reserved		
1	1	1	Reserved		

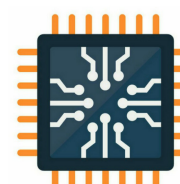
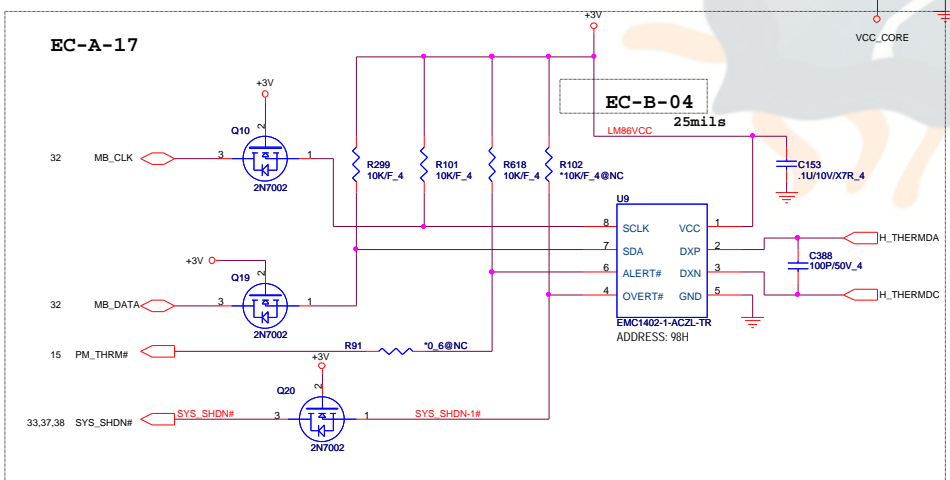


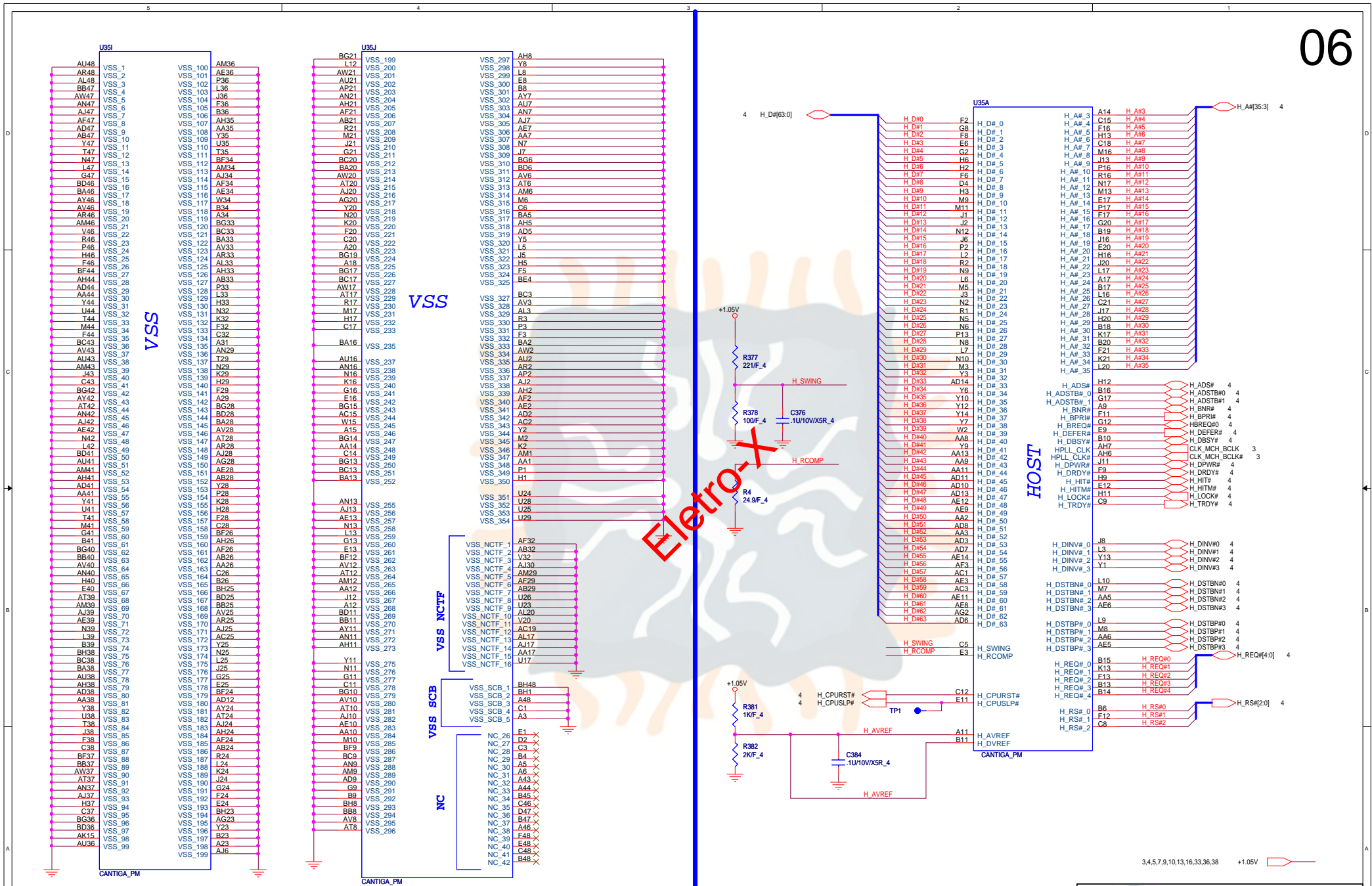


3,7,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,29,30,31,32,33,36,37,38 +3V
 3,4,6,7,9,10,13,16,33,36,38 +1.05V
 10,13,14,16,21,27,29,35 +1.5V
 4,33,38 VCC_CORE



EC-A-17





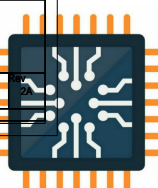
3,4,5,7,9,10,13,16,33,36,38

+1.05V



G-Note Montevina
Quanta Computer Inc.

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MCH_CFG_5 DMi2 selection

Low: DMi2
High: DMi4 (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_12i3 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)

TP13 AL34
TP16 AK36
TP19 AM36

ME_JTAG_TCK
ME_JTAG_TDI
ME_JTAG_TDO
ME_JTAG_TMS

3.4 MCH_BSEL0
3.4 MCH_BSEL1
3.4 MCH_BSEL2

TP22 MCH_CFG_3
TP23 MCH_CFG_4
TP24 MCH_CFG_5
TP25 MCH_CFG_6
TP26 MCH_CFG_7
TP27 MCH_CFG_8
TP28 MCH_CFG_9
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TP507 MCH_CFG_488
TP508 MCH_CFG_489
TP509 MCH_CFG_490

TP510 MCH_CFG_491
TP511 MCH_CFG_492
TP512 MCH_CFG_493
TP513 MCH_CFG_494

TP514 MCH_CFG_495
TP515 MCH_CFG_496
TP516 MCH_CFG_497
TP517 MCH_CFG_498

TP518 MCH_CFG_499
TP519 MCH_CFG_500
TP520 MCH_CFG_501
TP521 MCH_CFG_502

TP522 MCH_CFG_503
TP523 MCH_CFG_504
TP524 MCH_CFG_505
TP525 MCH_CFG_506

TP526 MCH_CFG_507
TP527 MCH_CFG_508
TP528 MCH_CFG_509
TP529 MCH_CFG_510

TP530 MCH_CFG_511
TP531 MCH_CFG_512
TP532 MCH_CFG_513
TP533 MCH_CFG_514

TP534 MCH_CFG_515
TP535 MCH_CFG_516
TP536 MCH_CFG_517
TP537 MCH_CFG_518

TP538 MCH_CFG_519
TP539 MCH_CFG_520
TP540 MCH_CFG_521
TP541 MCH_CFG_522

TP542 MCH_CFG_523
TP543 MCH_CFG_524
TP544 MCH_CFG_525
TP545 MCH_CFG_526

TP546 MCH_CFG_527
TP547 MCH_CFG_528
TP548 MCH_CFG_529
TP549 MCH_CFG_530

TP550 MCH_CFG_531
TP551 MCH_CFG_532
TP552 MCH_CFG_533
TP553 MCH_CFG_534

TP554 MCH_CFG_535
TP555 MCH_CFG_536
TP556 MCH_CFG

11 M_A_DQ[83:0]

U35D

M A DQ0	AJ38	SA, DO, 0
M A DQ1	AJ41	SA, DO, 1
M A DQ2	AN38	SA, DO, 2
M A DQ3	AM38	SA, DO, 3
M A DQ4	AJ36	SA, DO, 4
M A DQ5	AJ40	SA, DO, 5
M A DQ6	AM44	SA, DO, 6
M A DQ7	AN42	SA, DO, 7
M A DQ8	AN43	SA, DO, 8
M A DQ9	AN44	SA, DO, 9
M A DQ10	AJ40	SA, DO, 10
M A DQ11	AT38	SA, DO, 11
M A DQ12	AN41	SA, DO, 12
M A DQ13	AN39	SA, DO, 13
M A DQ14	AJ44	SA, DO, 14
M A DQ15	AJ42	SA, DO, 15
M A DQ16	AY39	SA, DO, 16
M A DQ17	AY44	SA, DO, 17
M A DQ18	BA40	SA, DO, 18
M A DQ19	BD43	SA, DO, 19
M A DQ20	AV41	SA, DO, 20
M A DQ21	AY43	SA, DO, 21
M A DQ22	BB41	SA, DO, 22
M A DQ23	BC40	SA, DO, 23
M A DQ24	AY37	SA, DO, 24
M A DQ25	BD38	SA, DO, 25
M A DQ26	AV37	SA, DO, 26
M A DQ27	AT36	SA, DO, 27
M A DQ28	AY38	SA, DO, 28
M A DQ29	BB38	SA, DO, 29
M A DQ30	AV36	SA, DO, 30
M A DQ31	AW36	SA, DO, 31
M A DQ32	BD13	SA, DO, 32
M A DQ33	AU11	SA, DO, 33
M A DQ34	BC11	SA, DO, 34
M A DQ35	BA12	SA, DO, 35
M A DQ36	AU13	SA, DO, 36
M A DQ37	AV13	SA, DO, 37
M A DQ38	BD12	SA, DO, 38
M A DQ39	BC12	SA, DO, 39
M A DQ40	BB9	SA, DO, 40
M A DQ41	BA9	SA, DO, 41
M A DQ42	AU10	SA, DO, 42
M A DQ43	AV9	SA, DO, 43
M A DQ44	BA11	SA, DO, 44
M A DQ45	BD9	SA, DO, 45
M A DQ46	AY8	SA, DO, 46
M A DQ47	BA6	SA, DO, 47
M A DQ48	AV5	SA, DO, 48
M A DQ49	AV7	SA, DO, 49
M A DQ50	AT3	SA, DO, 50
M A DQ51	AN8	SA, DO, 51
M A DQ52	AU5	SA, DO, 52
M A DQ53	AU6	SA, DO, 53
M A DQ54	AT5	SA, DO, 54
M A DQ55	AN10	SA, DO, 55
M A DQ56	AM11	SA, DO, 56
M A DQ57	AM5	SA, DO, 57
M A DQ58	AJ9	SA, DO, 58
M A DQ59	AJ8	SA, DO, 59
M A DQ60	AN12	SA, DO, 60
M A DQ61	AM13	SA, DO, 61
M A DQ62	AJ11	SA, DO, 62
M A DQ63	AJ12	SA, DO, 63

CANTIGA_PM

DDR SYSTEM MEMORY A

SA, BS, 0
SA, BS, 1
SA, BS, 2
SA, RAS#
SA, CAS#
SA, WE#

SA, DM, 0
SA, DM, 1
SA, DM, 2
SA, DM, 3
SA, DM, 4
SA, DM, 5
SA, DM, 6
SA, DM, 7

SA, DQS, 0
SA, DQS, 1
SA, DQS, 2
SA, DQS, 3
SA, DQS, 4
SA, DQS, 5
SA, DQS, 6
SA, DQS, 7
SA, DQS#, 0
SA, DQS#, 1
SA, DQS#, 2
SA, DQS#, 3
SA, DQS#, 4
SA, DQS#, 5
SA, DQS#, 6
SA, DQS#, 7

SA, MA, 0
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SA, MA, 4
SA, MA, 5
SA, MA, 6
SA, MA, 7
SA, MA, 8
SA, MA, 9
SA, MA, 10
SA, MA, 11
SA, MA, 12
SA, MA, 13
SA, MA, 14

BD21
BG18
AT25
BR20
BD20
AY20

AM37 M A DM0
AT41 M A DM1
AY41 M A DM2
AU39 M A DM3
BB12 M A DM4
AY6 M A DM5
AT7 M A DM6
AJ5 M A DM7

AJ44 M A DQS0
AT44 M A DQS1
BA43 M A DQS2
BC37 M A DQS3
AW12 M A DQS4
BC9 M A DQS5
AU8 M A DQS6
AM7 M A DQS7
AJ43 M A DQS#0
AT43 M A DQS#1
BA44 M A DQS#2
BD37 M A DQS#3
AY12 M A DQS#4
BD8 M A DQS#5
AU9 M A DQS#6
AM8 M A DQS#7

BA21 M A A0
BC24 M A A1
BG24 M A A2
BH24 M A A3
BG25 M A A4
BD24 M A A5
BG27 M A A6
BF25 M A A7
AW24 M A A8
BC21 M A A9
BG26 M A A10
BH26 M A A11
BH17 M A A12
AY25 M A A13
AY25 M A A14

M A, BS#0
M A, BS#1
M A, BS#2
M A, RAS#
M A, CAS#
M A, WE#

M A, DM[7:0]

M A, DQS[7:0]

M A, A[14:0]

12 M_B_DQ[83:0]

U35E

M B DQ0	AK47	SB, DO, 0
M B DQ1	AH46	SB, DO, 1
M B DQ2	AP47	SB, DO, 2
M B DQ3	AP46	SB, DO, 3
M B DQ4	AJ46	SB, DO, 4
M B DQ5	AJ48	SB, DO, 5
M B DQ6	AM48	SB, DO, 6
M B DQ7	AP48	SB, DO, 7
M B DQ8	AU47	SB, DO, 8
M B DQ9	AU46	SB, DO, 9
M B DQ10	BA48	SB, DO, 10
M B DQ11	AY48	SB, DO, 11
M B DQ12	AT47	SB, DO, 12
M B DQ13	AR47	SB, DO, 13
M B DQ14	BA47	SB, DO, 14
M B DQ15	BC47	SB, DO, 15
M B DQ16	BC46	SB, DO, 16
M B DQ17	BC44	SB, DO, 17
M B DQ18	BG43	SB, DO, 18
M B DQ19	BF43	SB, DO, 19
M B DQ20	BE46	SB, DO, 20
M B DQ21	BC41	SB, DO, 21
M B DQ22	BF40	SB, DO, 22
M B DQ23	BF41	SB, DO, 23
M B DQ24	BC38	SB, DO, 24
M B DQ25	BF38	SB, DO, 25
M B DQ26	BH35	SB, DO, 26
M B DQ27	BG35	SB, DO, 27
M B DQ28	BH40	SB, DO, 28
M B DQ29	BG39	SB, DO, 29
M B DQ30	BG34	SB, DO, 30
M B DQ31	BH34	SB, DO, 31
M B DQ32	BH12	SB, DO, 32
M B DQ33	BH11	SB, DO, 33
M B DQ34	BG8	SB, DO, 34
M B DQ35	BH12	SB, DO, 35
M B DQ36	BF11	SB, DO, 36
M B DQ37	BF8	SB, DO, 37
M B DQ38	BG7	SB, DO, 38
M B DQ39	BC5	SB, DO, 39
M B DQ40	BC6	SB, DO, 40
M B DQ41	AY3	SB, DO, 41
M B DQ42	AY1	SB, DO, 42
M B DQ43	BF6	SB, DO, 43
M B DQ44	BF5	SB, DO, 44
M B DQ45	BA1	SB, DO, 45
M B DQ46	BD3	SB, DO, 46
M B DQ47	AV2	SB, DO, 47
M B DQ48	AU3	SB, DO, 48
M B DQ49	AR3	SB, DO, 49
M B DQ50	AN2	SB, DO, 50
M B DQ51	AY2	SB, DO, 51
M B DQ52	AV1	SB, DO, 52
M B DQ53	AP3	SB, DO, 53
M B DQ54	AR1	SB, DO, 54
M B DQ55	AL1	SB, DO, 55
M B DQ56	AL2	SB, DO, 56
M B DQ57	AJ1	SB, DO, 57
M B DQ58	AH1	SB, DO, 58
M B DQ59	AM2	SB, DO, 59
M B DQ60	AM3	SB, DO, 60
M B DQ61	AH3	SB, DO, 61
M B DQ62	AH3	SB, DO, 62
M B DQ63	AJ3	SB, DO, 63

SB, BS, 0
SB, BS, 1
SB, BS, 2
SB, RAS#
SB, CAS#
SB, WE#

SB, DM, 0
SB, DM, 1
SB, DM, 2
SB, DM, 3
SB, DM, 4
SB, DM, 5
SB, DM, 6
SB, DM, 7

SB, DQS, 0
SB, DQS, 1
SB, DQS, 2
SB, DQS, 3
SB, DQS, 4
SB, DQS, 5
SB, DQS, 6
SB, DQS, 7
SB, DQS#, 0
SB, DQS#, 1
SB, DQS#, 2
SB, DQS#, 3
SB, DQS#, 4
SB, DQS#, 5
SB, DQS#, 6
SB, DQS#, 7

SB, MA, 0
SB, MA, 1
SB, MA, 2
SB, MA, 3
SB, MA, 4
SB, MA, 5
SB, MA, 6
SB, MA, 7
SB, MA, 8
SB, MA, 9
SB, MA, 10
SB, MA, 11
SB, MA, 12
SB, MA, 13
SB, MA, 14

BC16
BB17
BB33
AU17
BG16
BF14

M B, BS#0
M B, BS#1
M B, BS#2
M B, RAS#
M B, CAS#
M B, WE#

M B, DM[7:0]

M B, DQS[7:0]

M B, A[14:0]

AM47 M B DM0
AY47 M B DM1
BD40 M B DM2
BF35 M B DM3
BG11 M B DM4
BA3 M B DM5
AP1 M B DM6
AK2 M B DM7

AL47 M B DQS0
AV48 M B DQS1
BG41 M B DQS2
BG31 M B DQS3
BH9 M B DQS4
BB2 M B DQS5
AU1 M B DQS6
AN6 M B DQS7
AL46 M B DQS#0
AV47 M B DQS#1
BH41 M B DQS#2
BH37 M B DQS#3
BG9 M B DQS#4
BC2 M B DQS#5
AT2 M B DQS#6
AN6 M B DQS#7

AV17 M B A0
BA25 M B A1
BC25 M B A2
AU25 M B A3
AW25 M B A4
BB28 M B A5
AU28 M B A6
AW28 M B A7
AT33 M B A8
BD33 M B A9
BB16 M B A10
AW33 M B A11
AY33 M B A12
BH15 M B A13
AU33 M B A14

M B, A[14:0]

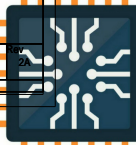


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Quanta Computer Inc.

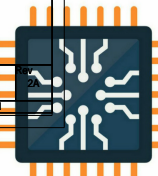
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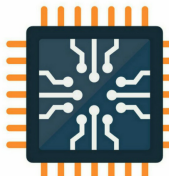
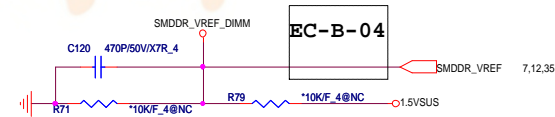
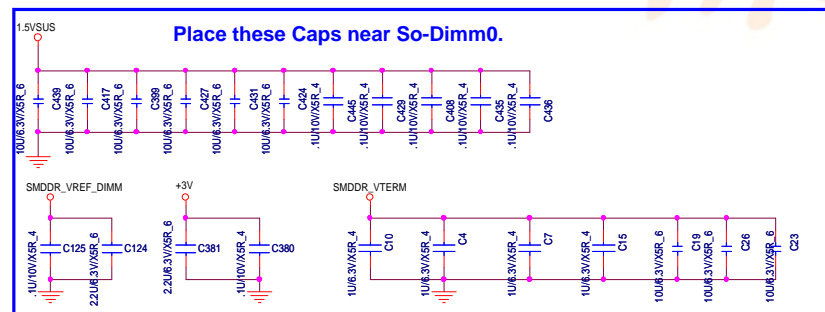
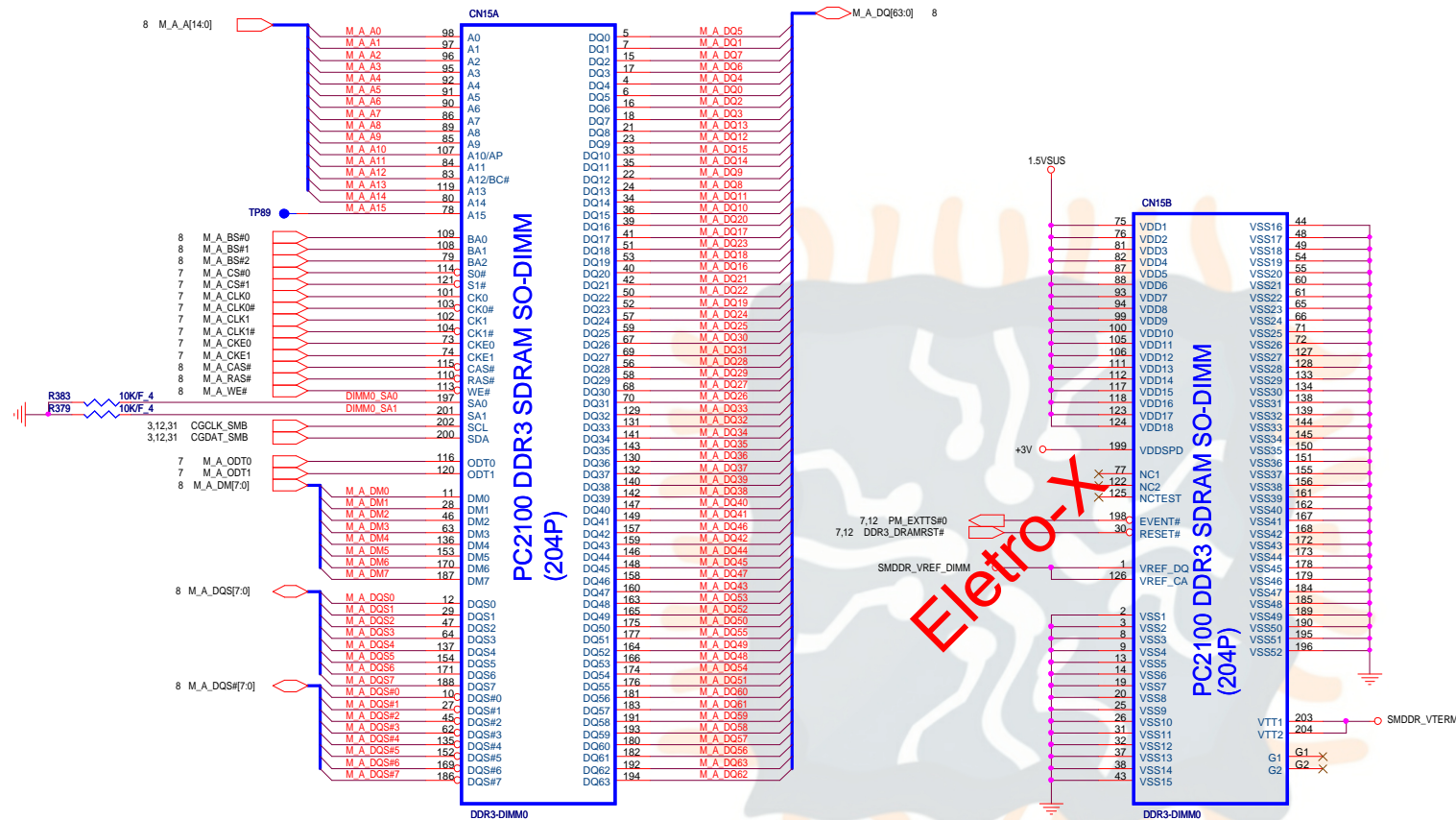
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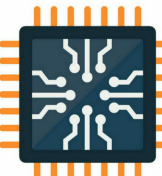
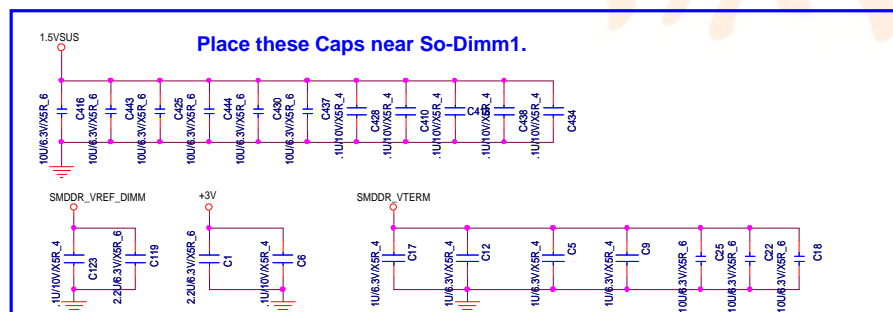
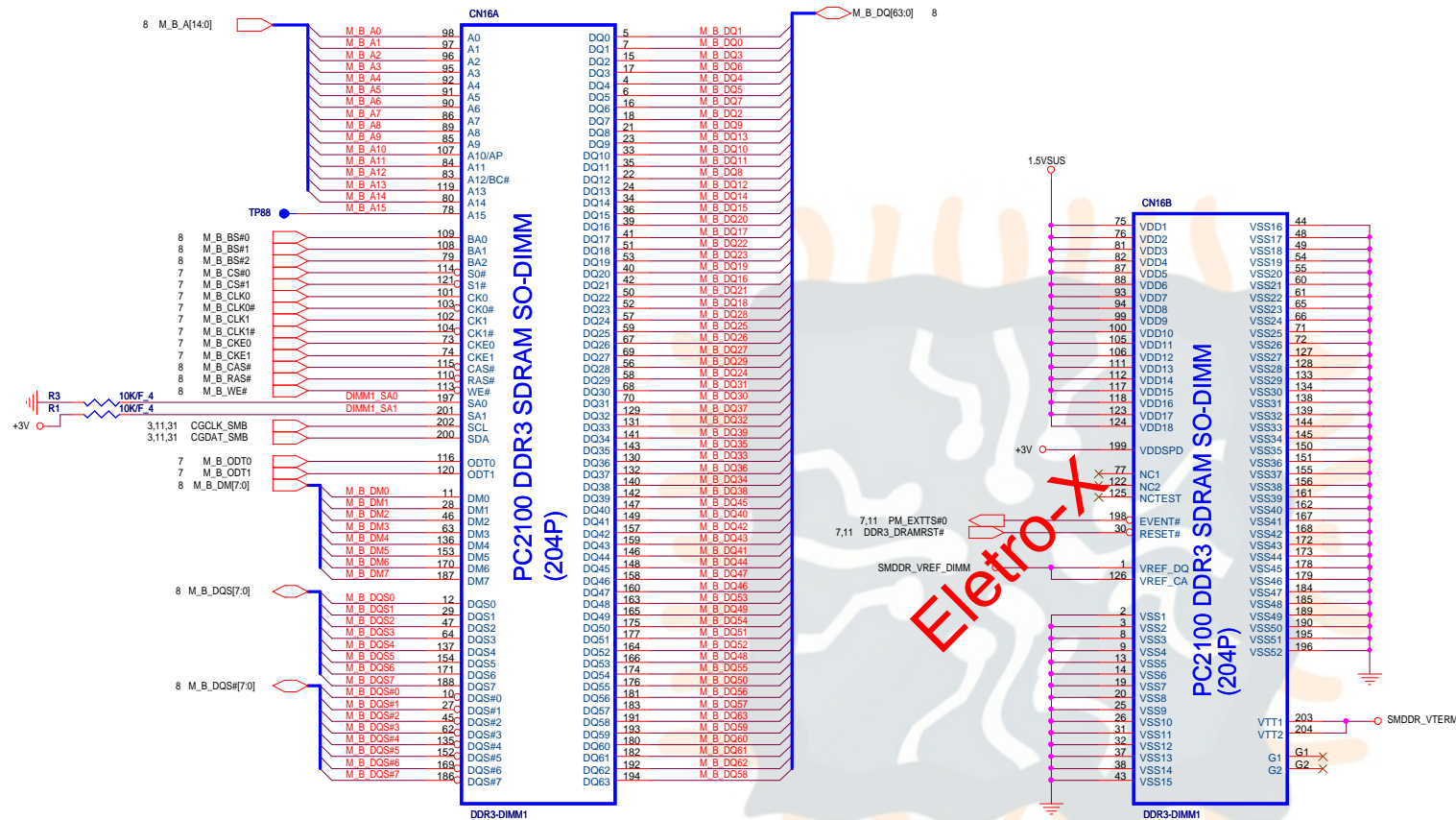
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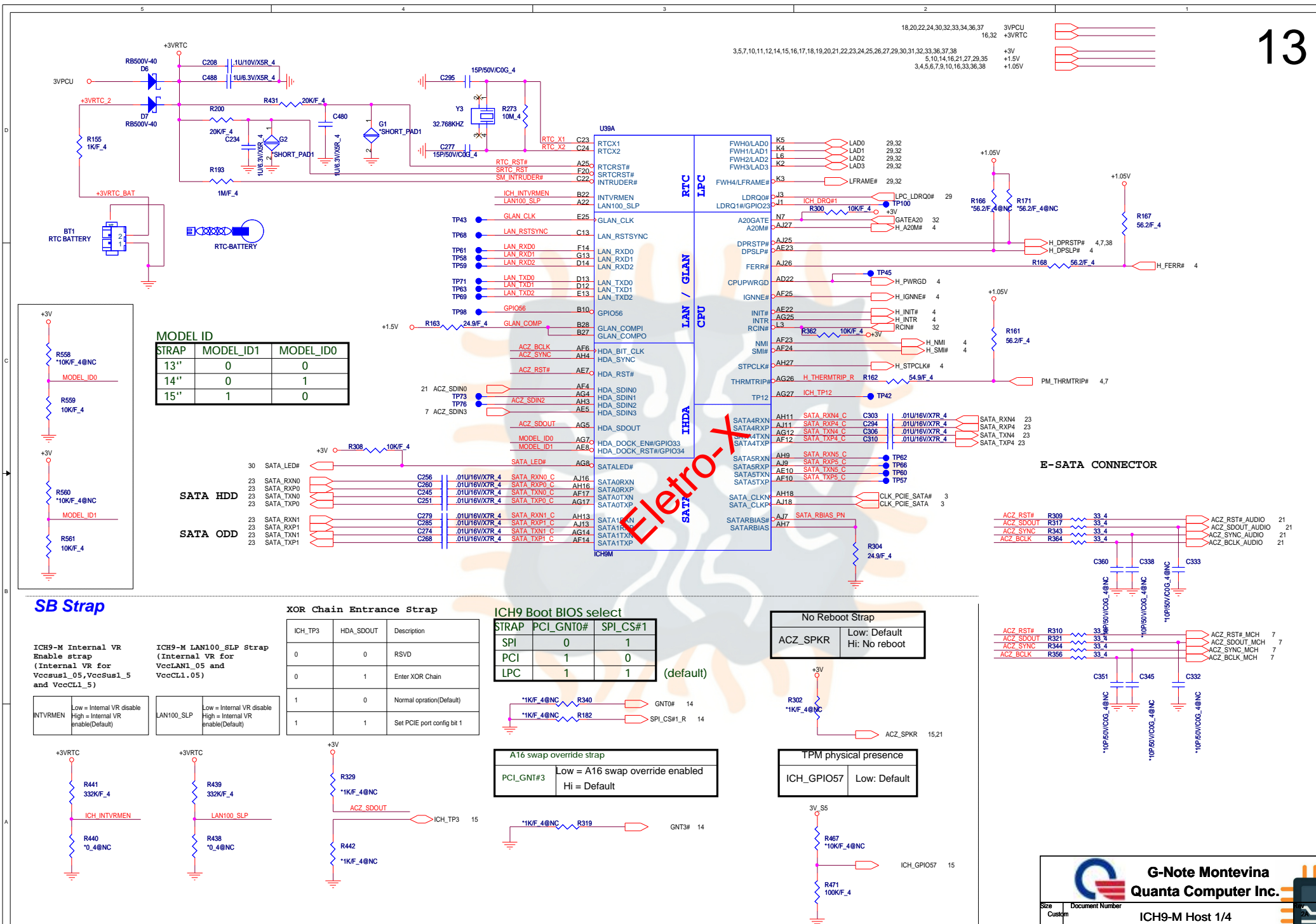




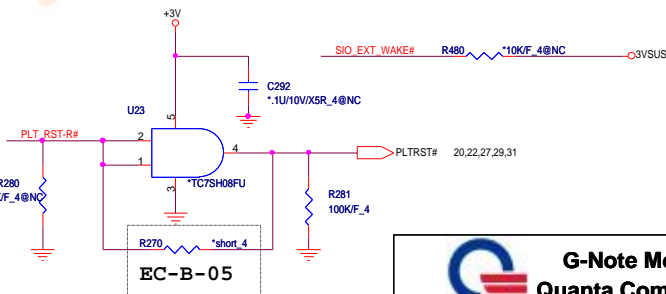
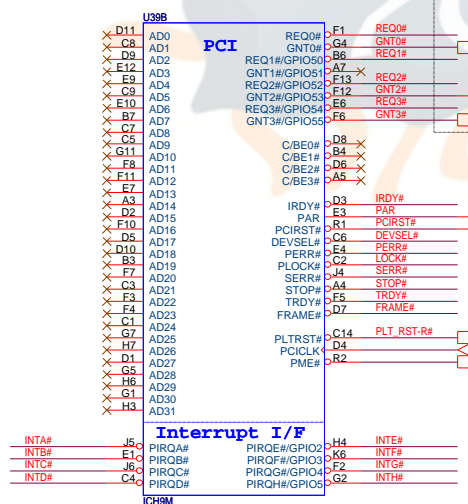
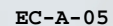
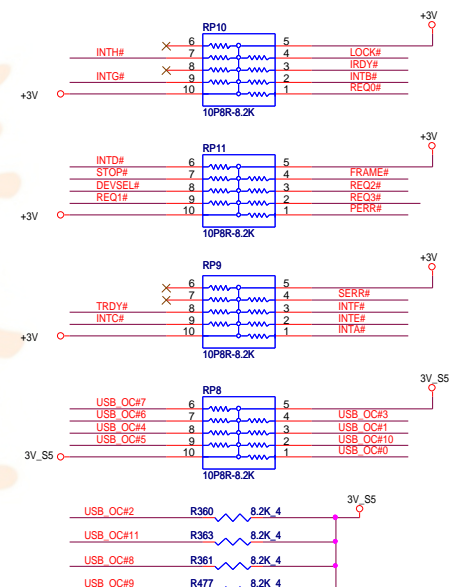
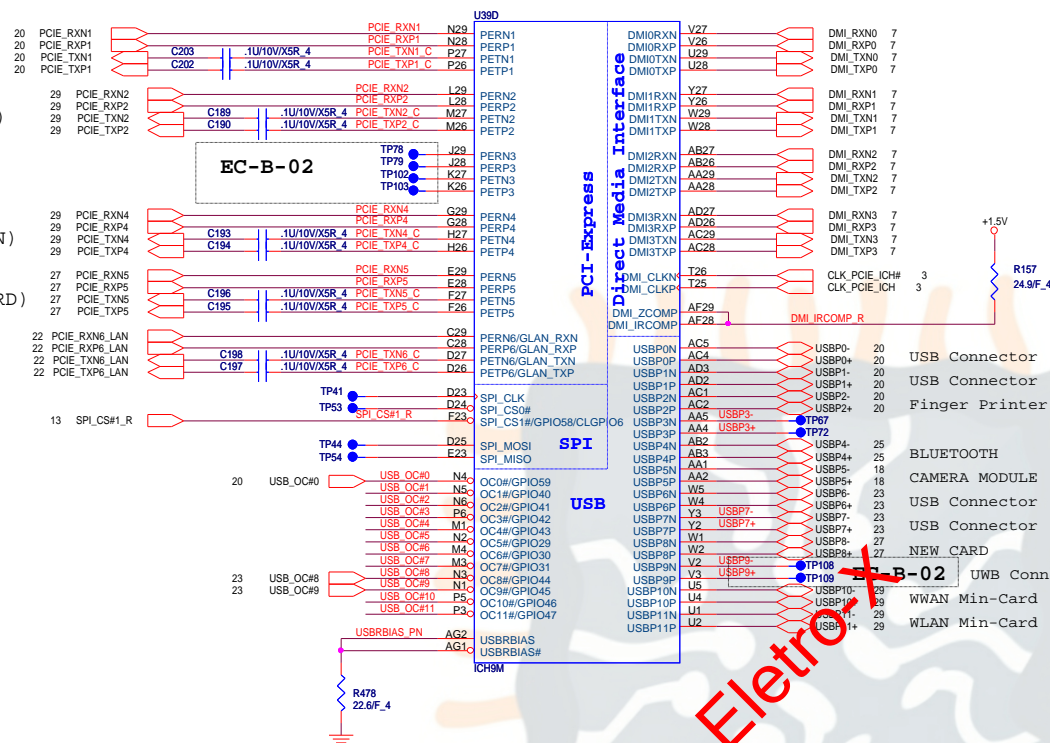




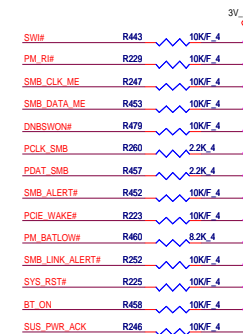
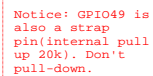




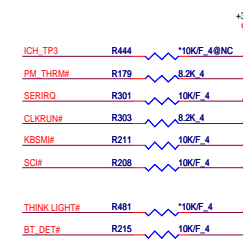
PCIE-LAN



PCI ROUTING TABLE	IDSEL	INTERUPT	DEVICE
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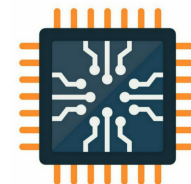
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SIV	0	0	0	1
SIT	0	0	1	0
SVT	0	0	1	1
SOVP	0	1	0	0
	0	1	0	1
	0	1	1	0
	0	1	1	1
	1	0	0	0
	1	0	0	1
	1	0	1	0
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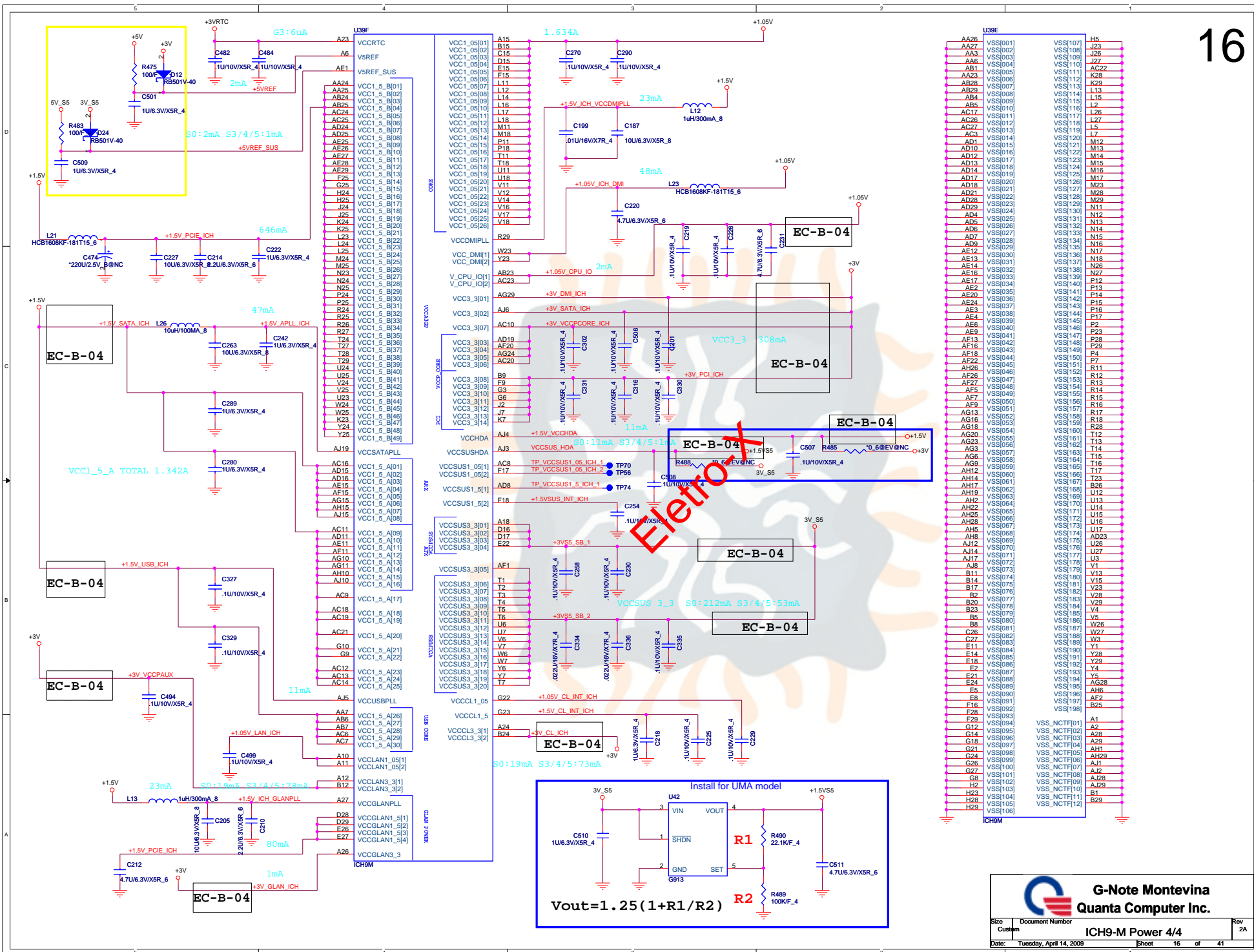


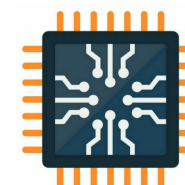
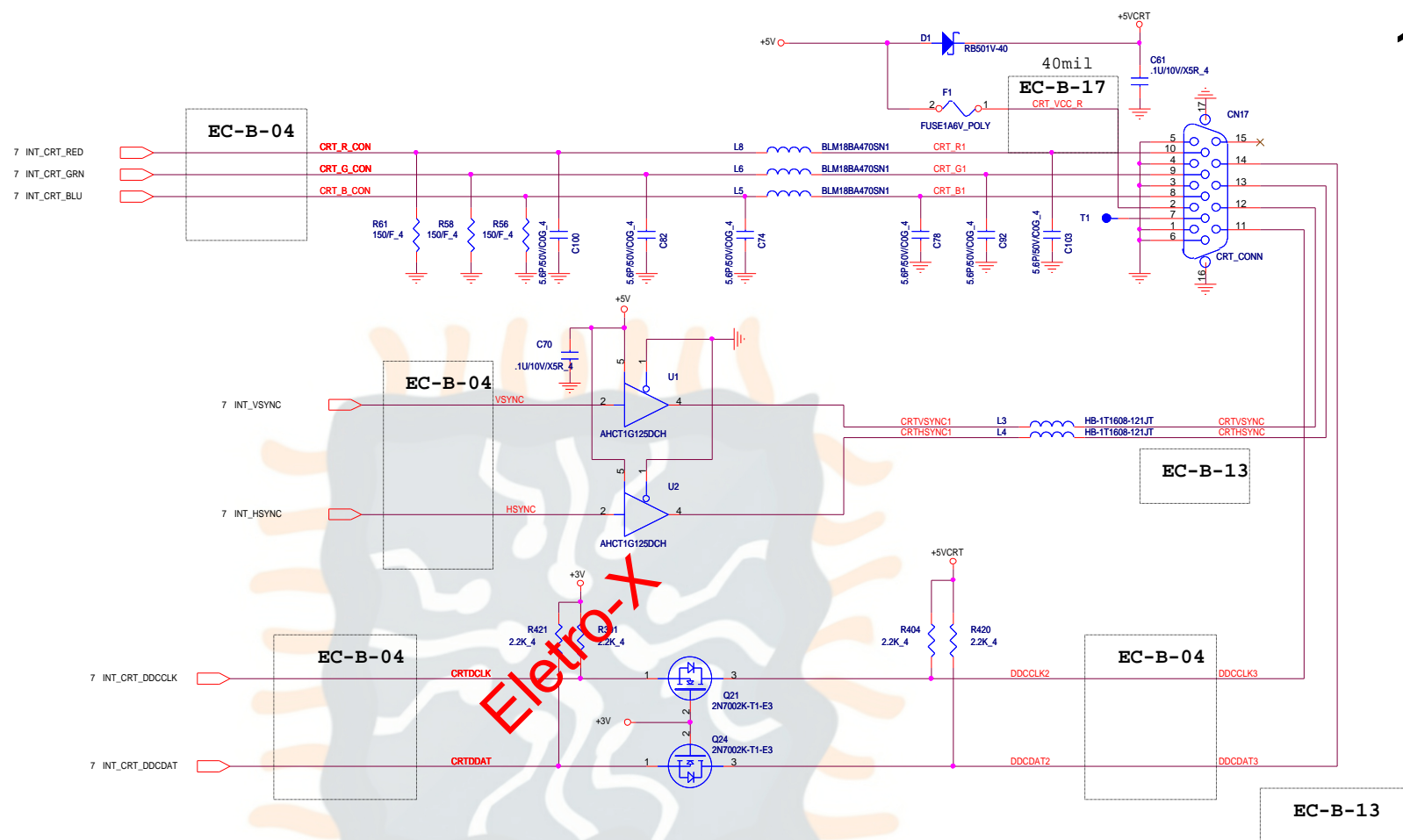
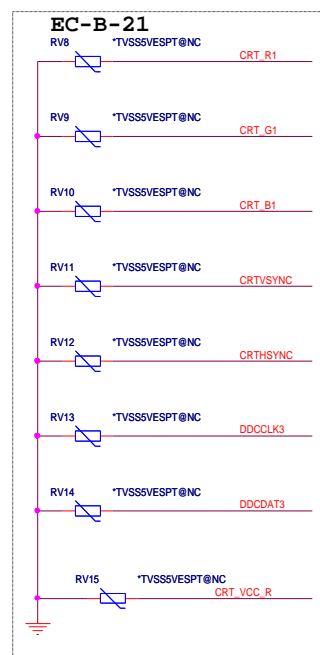
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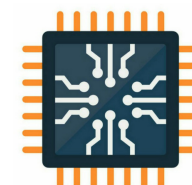
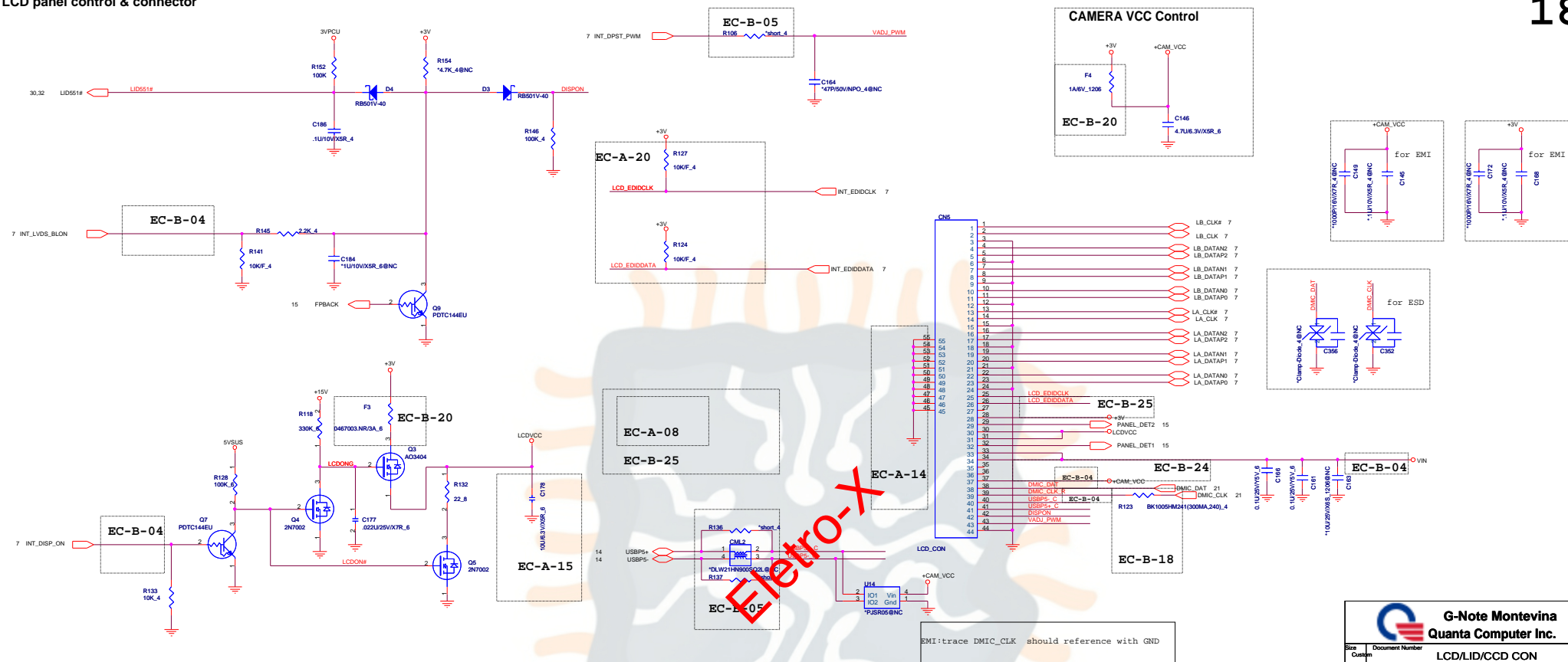
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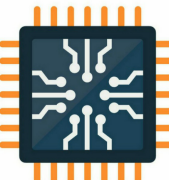
 G-Note Montevina Quanta Computer Inc.		Rev
Size	Document Number	2A
Custom	ICH9-M GPIO 3/4	
Date:	Tuesday, April 14, 2009	Sheet 15 of 46



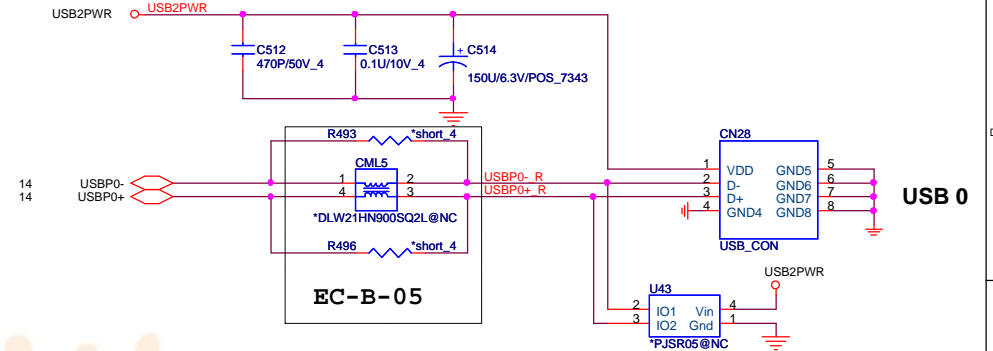
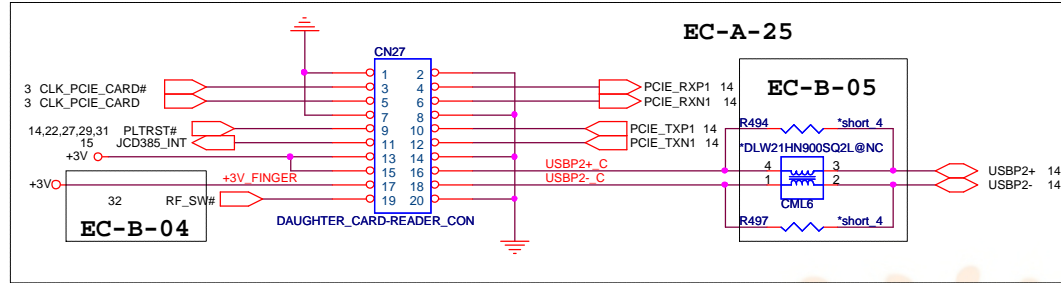




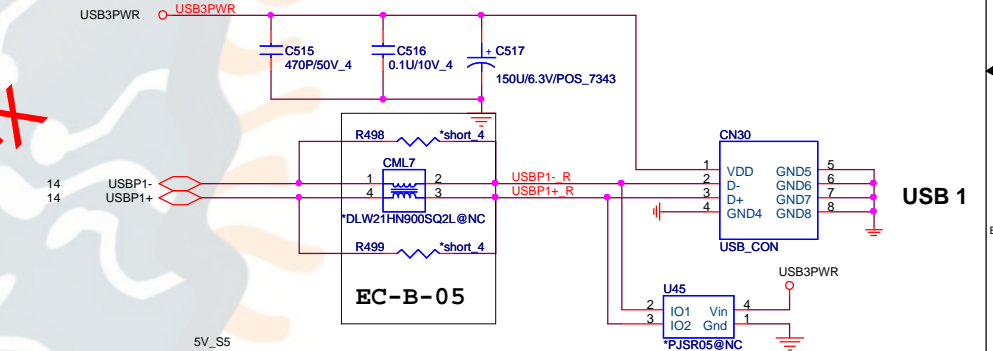
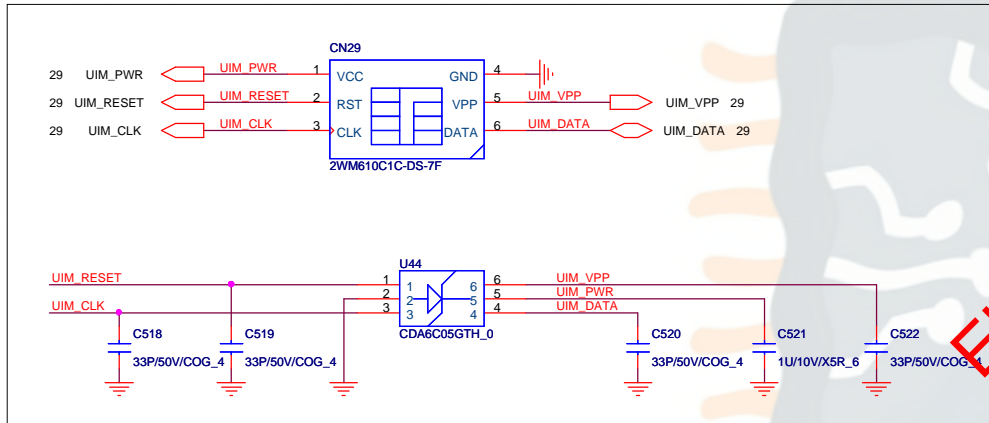




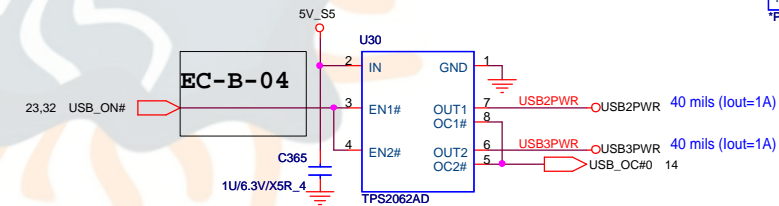
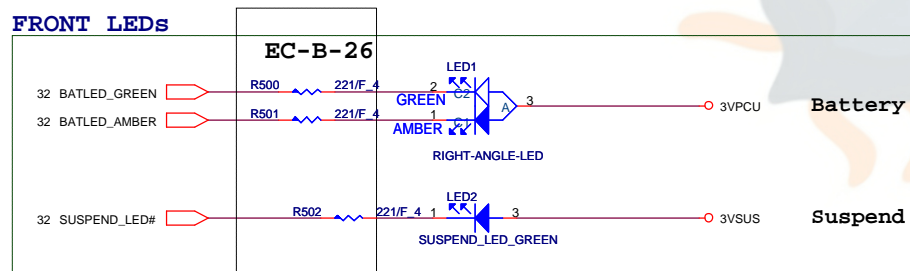
WIRE TO BOARD CONN CARD READER & FINGERPRINT



SIM Card CONN



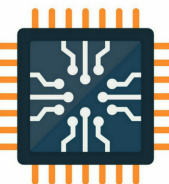
FRONT LEDs



PROJECT :G NOTE
Quanta Computer Inc.

Size	Document Number	Rev
Custom	USB X2/SIM_CARD/LEDs/RF	2A

Date: Tuesday, April 14, 2009 Sheet 20 of 46



EC-B-05

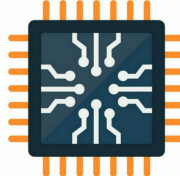
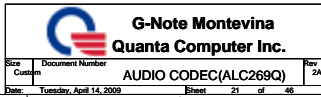
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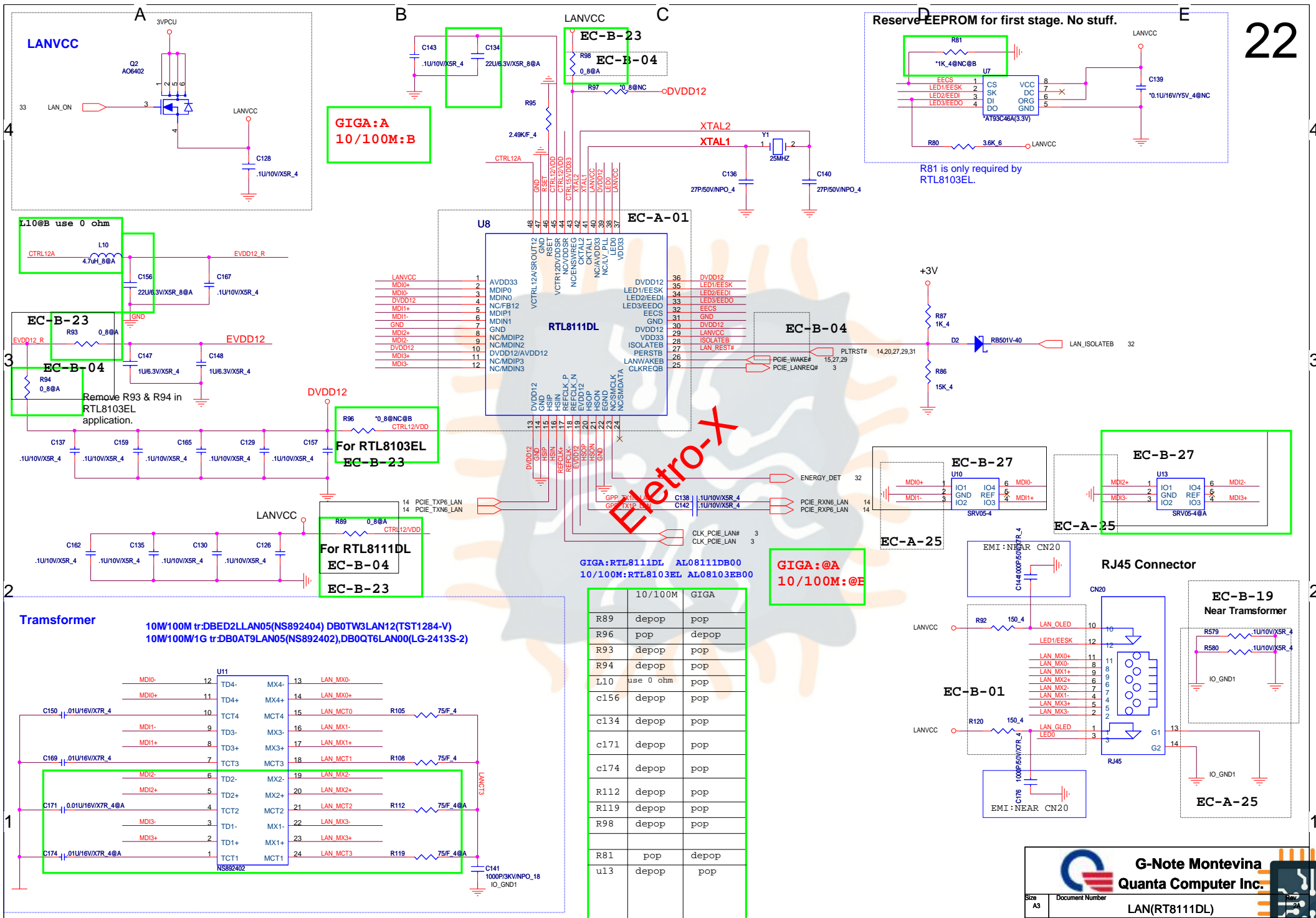
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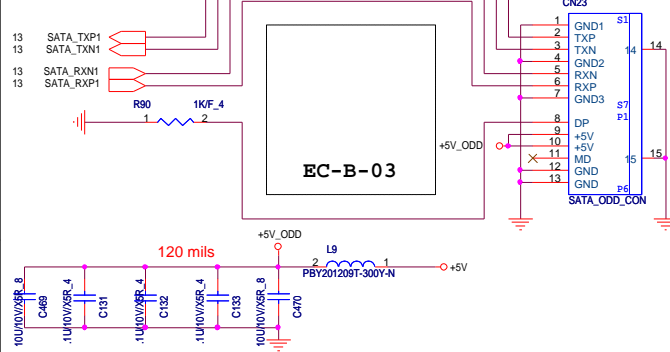
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R240 *short 4

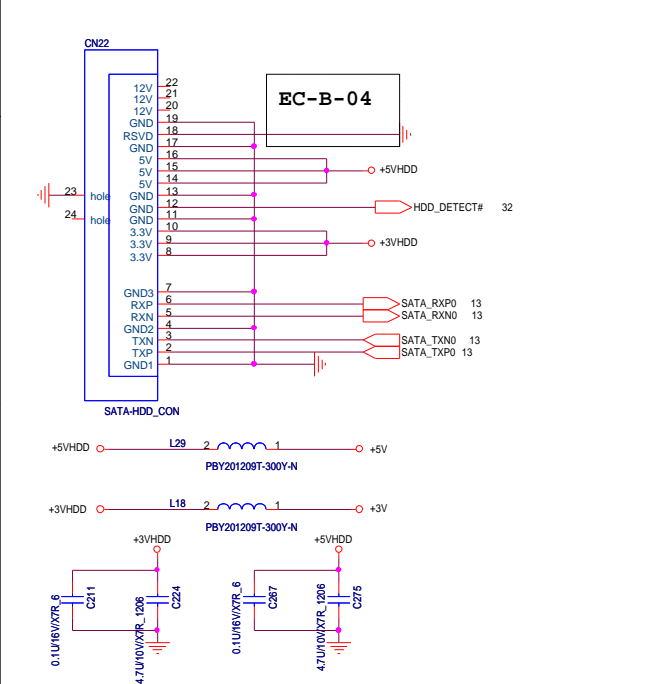




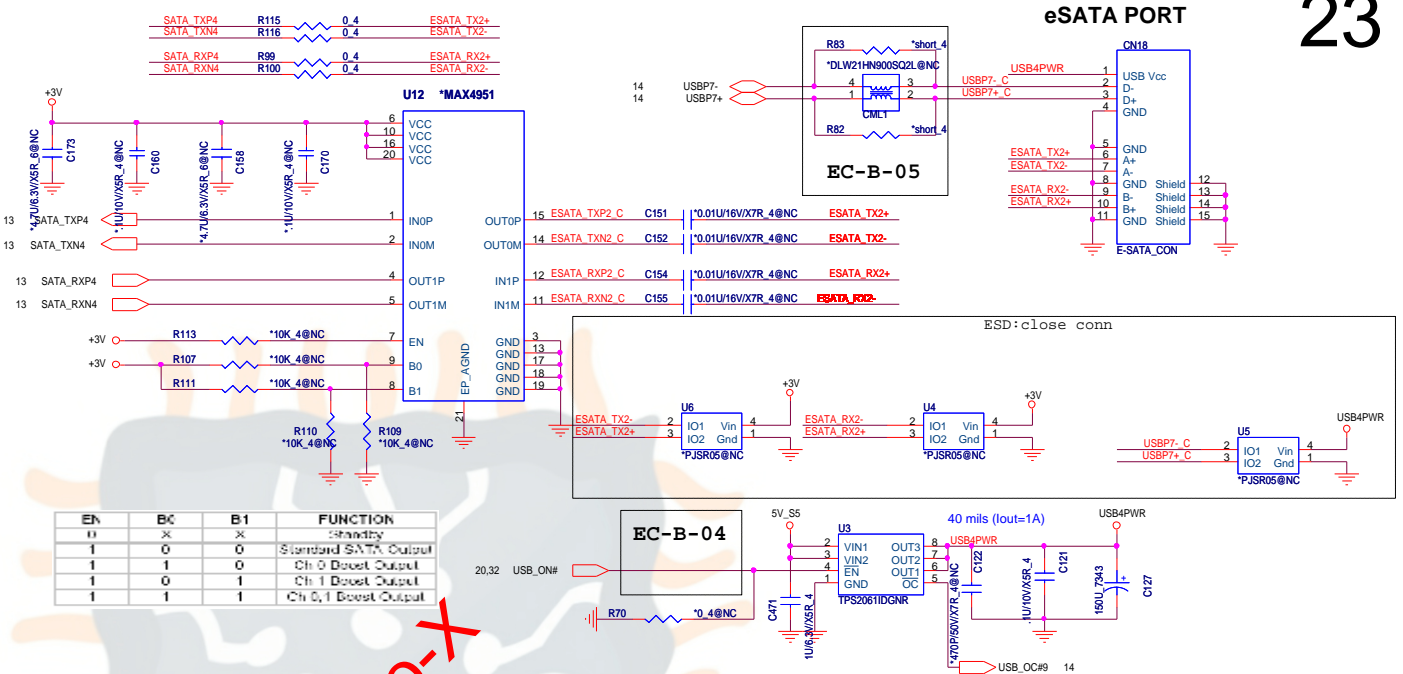
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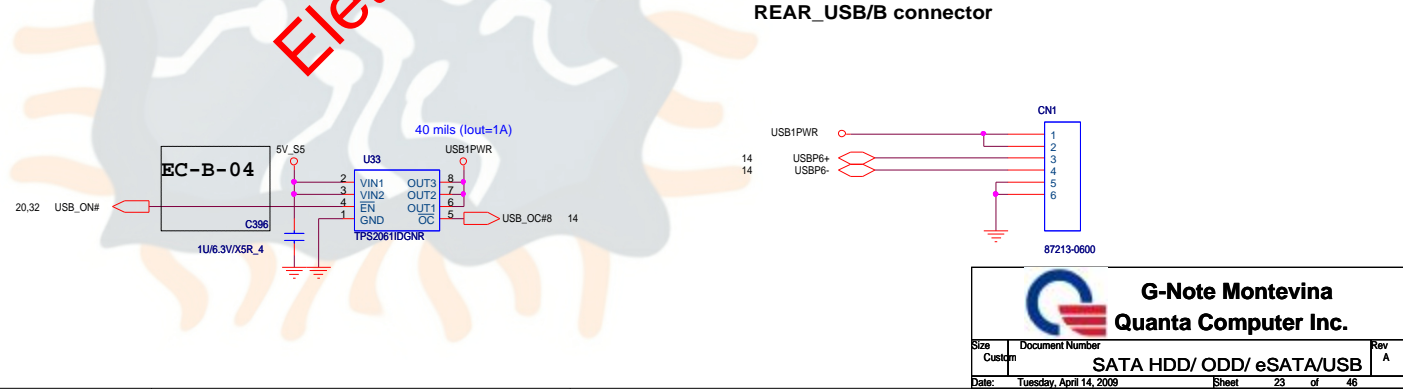
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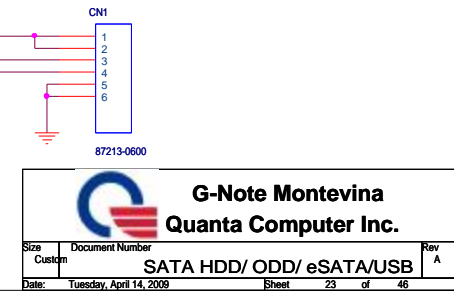
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USB x1

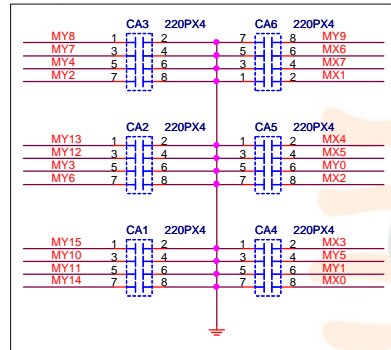
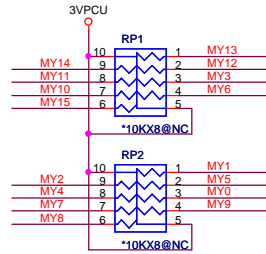
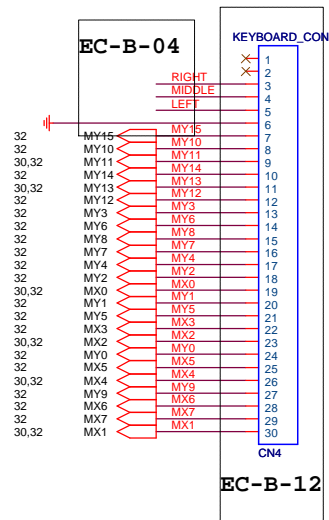


REAR_USB/B connector



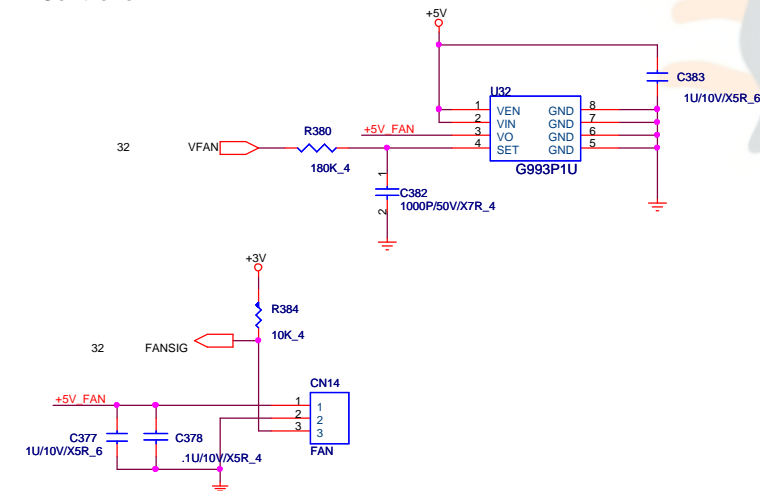
FAN, K/B, T/P & Track Point

KEYBOARD connector

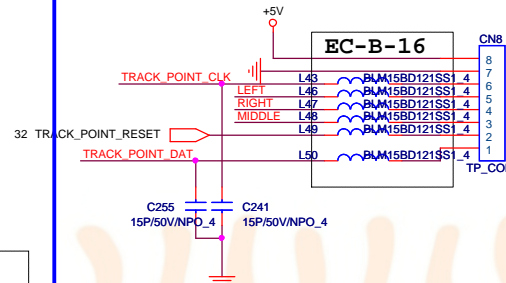


For EMI request

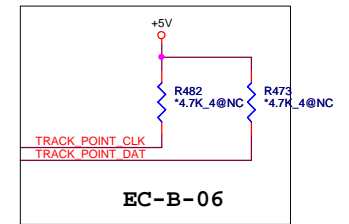
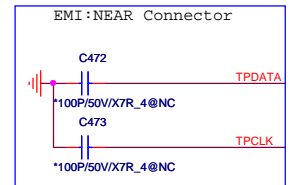
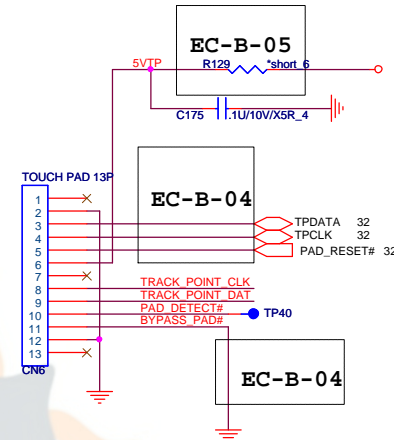
FAN Controller



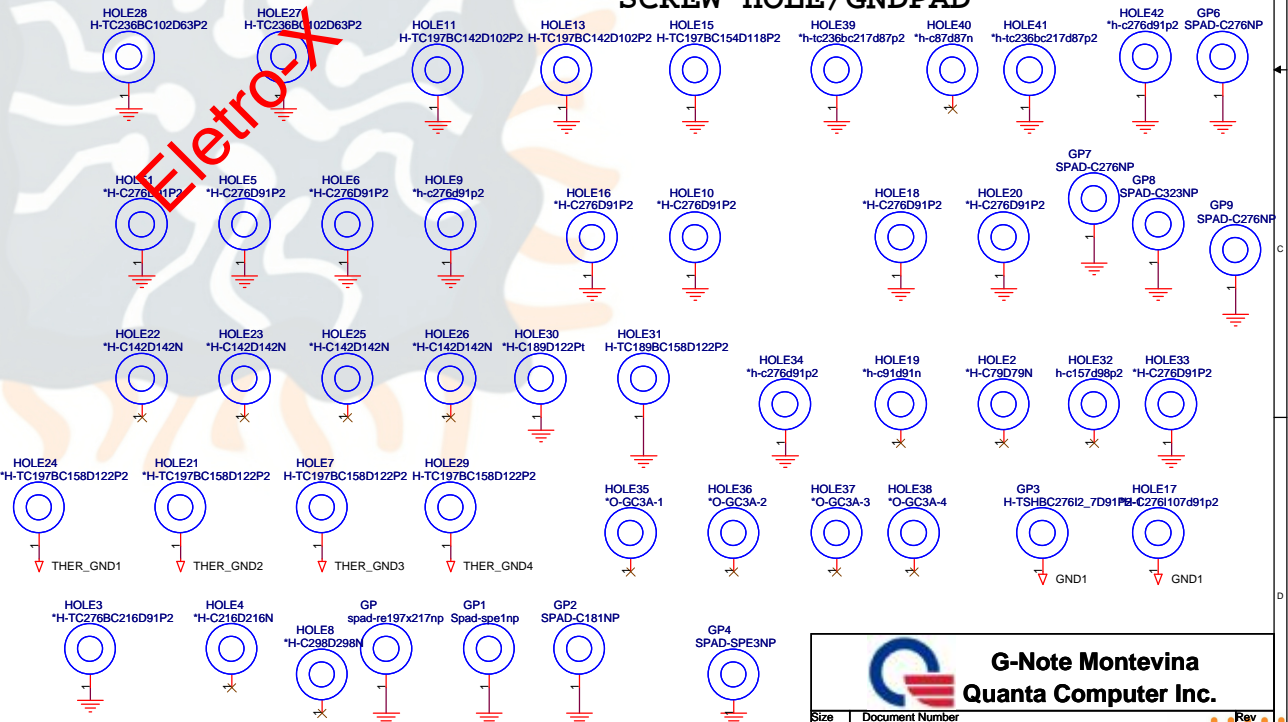
TRACK POINT



TOUCH PAD

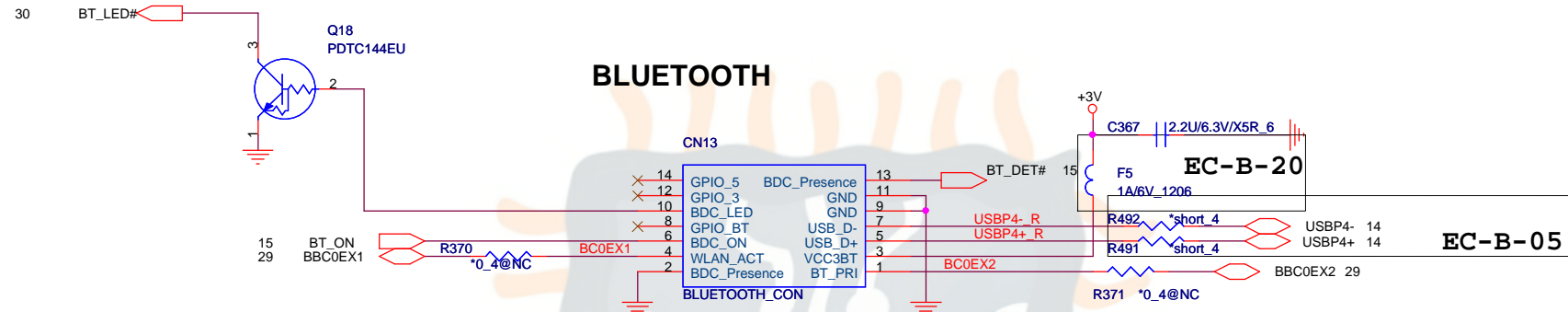


SCREW HOLE/GNDPAD



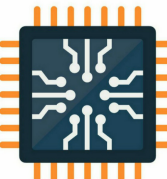
G-Note Montevina
Quanta Computer Inc.

Size: Custom
Document Number: KB/TP/FAN/SCREW HOLE
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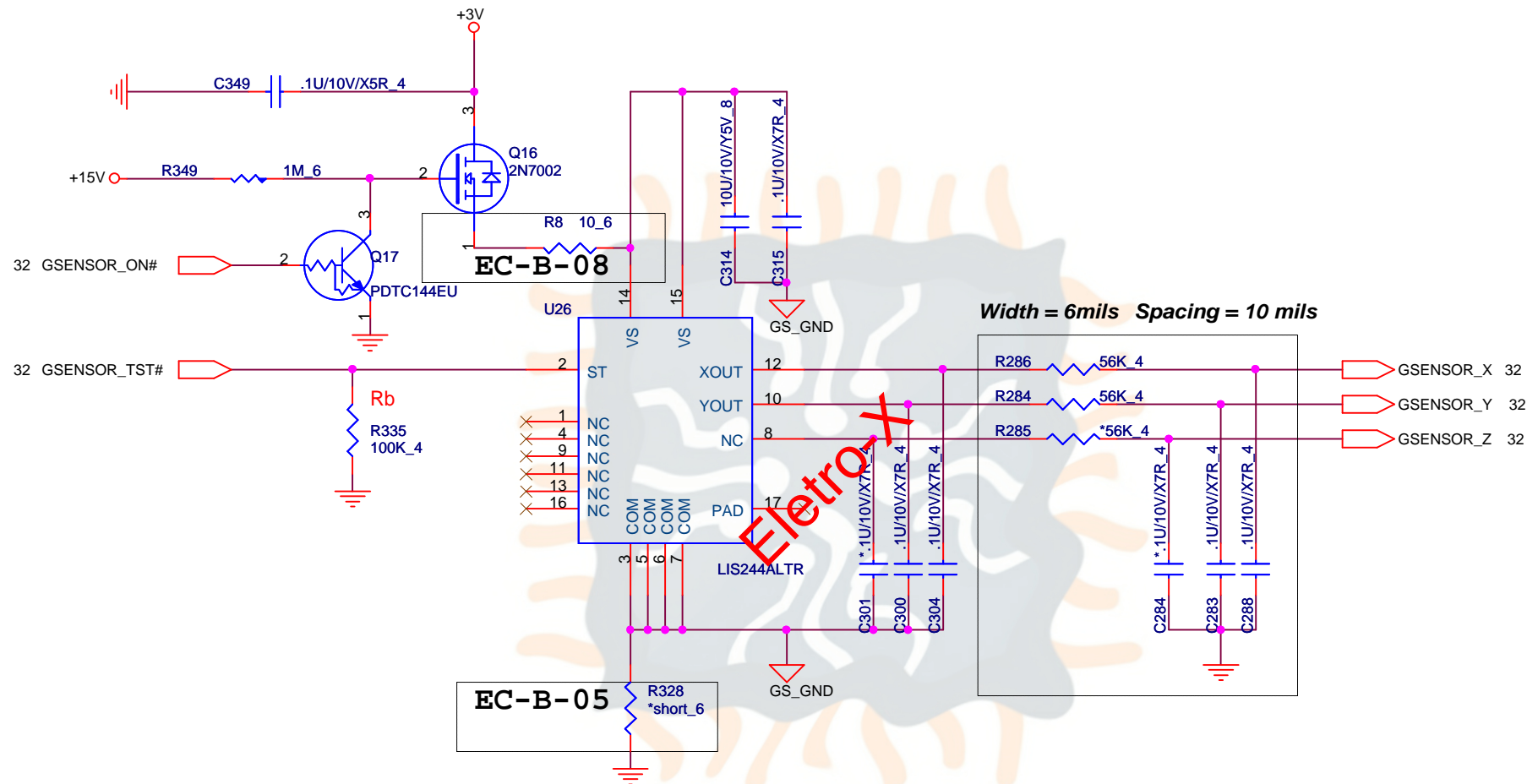
**G-Note Montevina
Quanta Computer Inc.**

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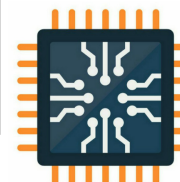
G-SENSOR (2-Axial)

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**G-Note Montevina
Quanta Computer Inc.**

Size A	Document Number G-SENSOR	Rev 2A
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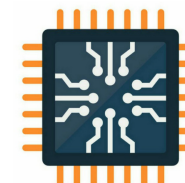
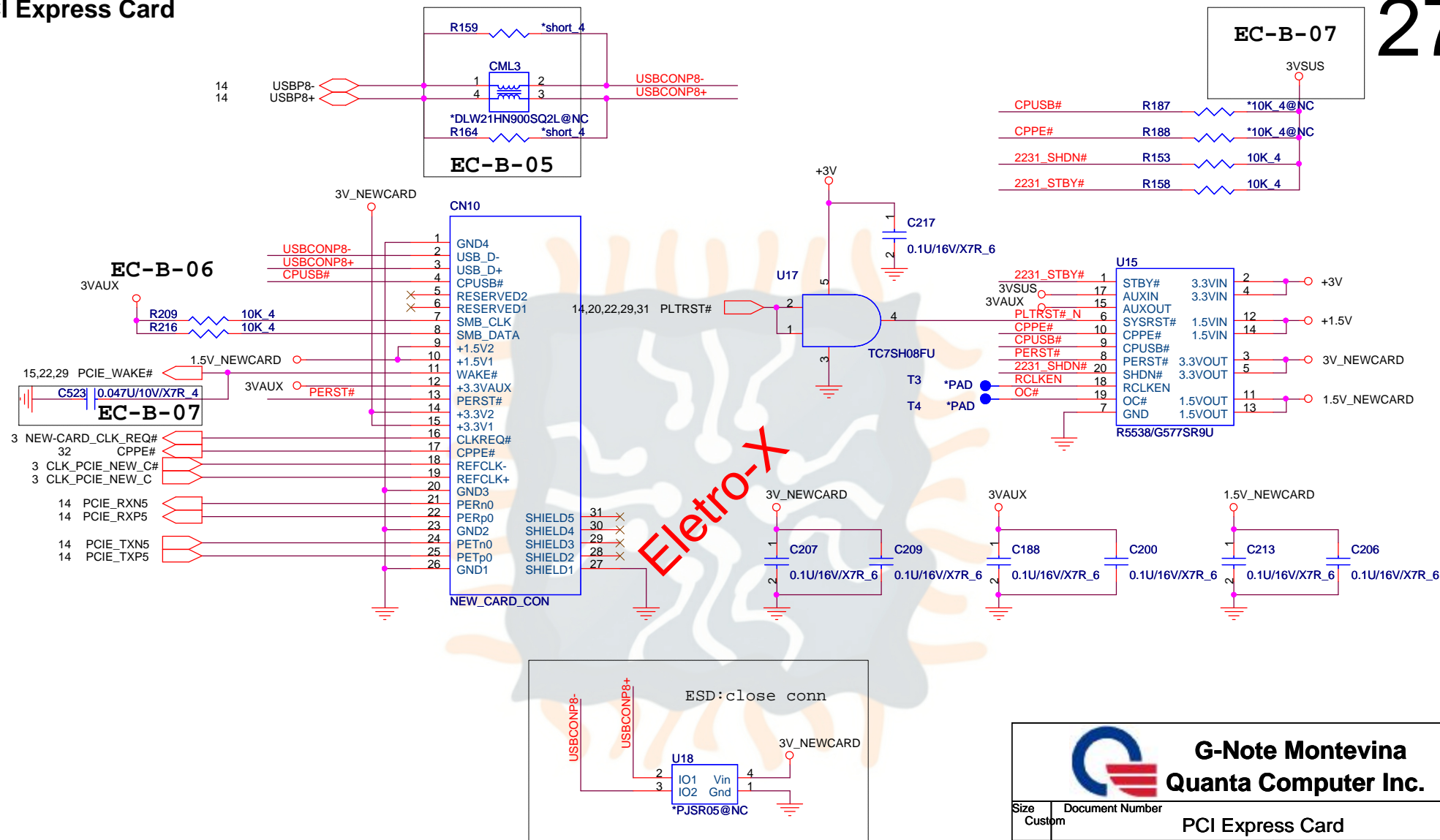


ECE-RO-2

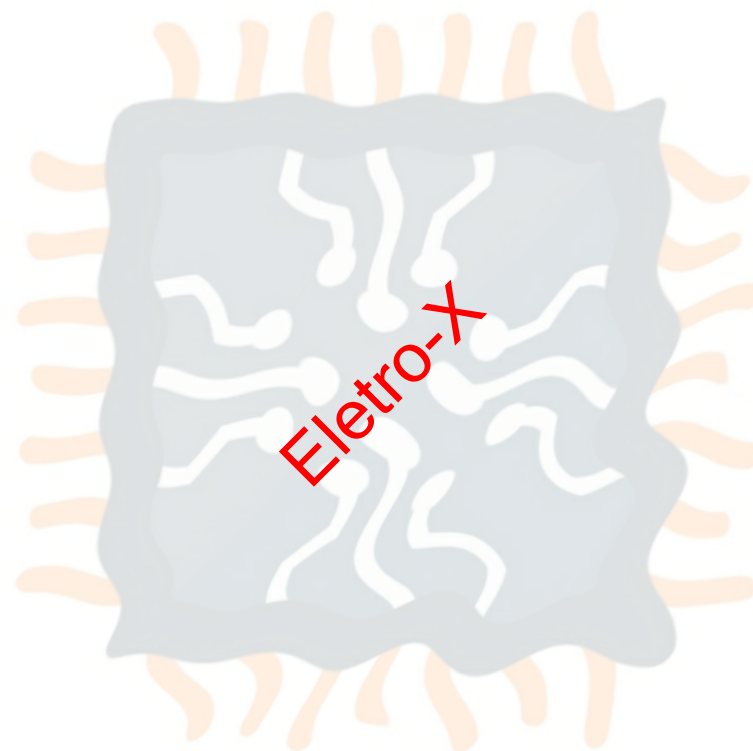
PCI Express Card

EC-B-07

27

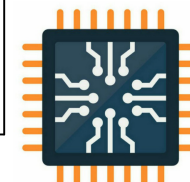


EC-B-02



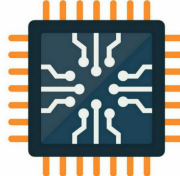
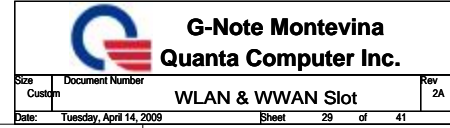
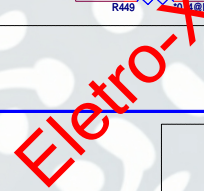
G-Note Montevina
Quanta Computer Inc.

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ELETRO-X

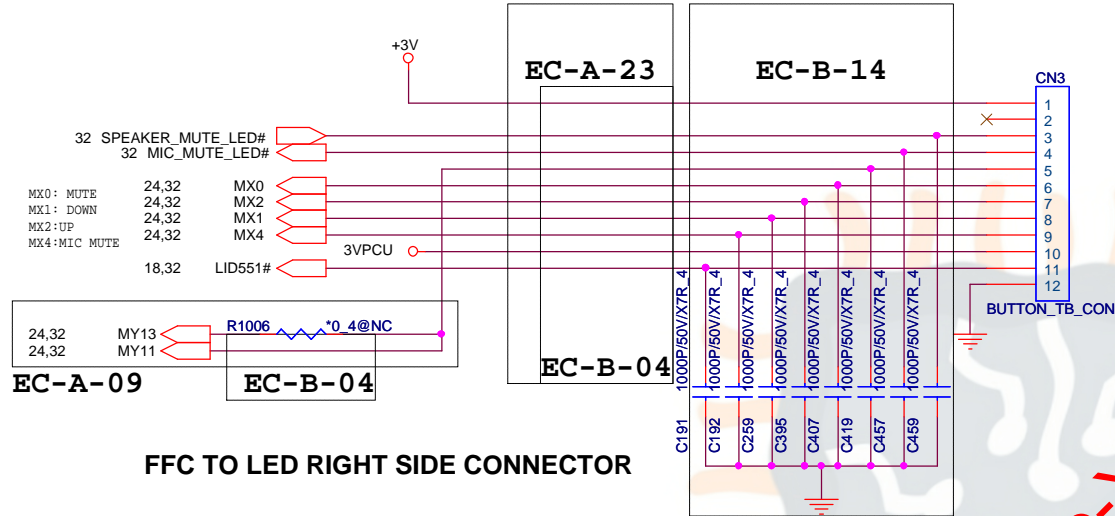
29



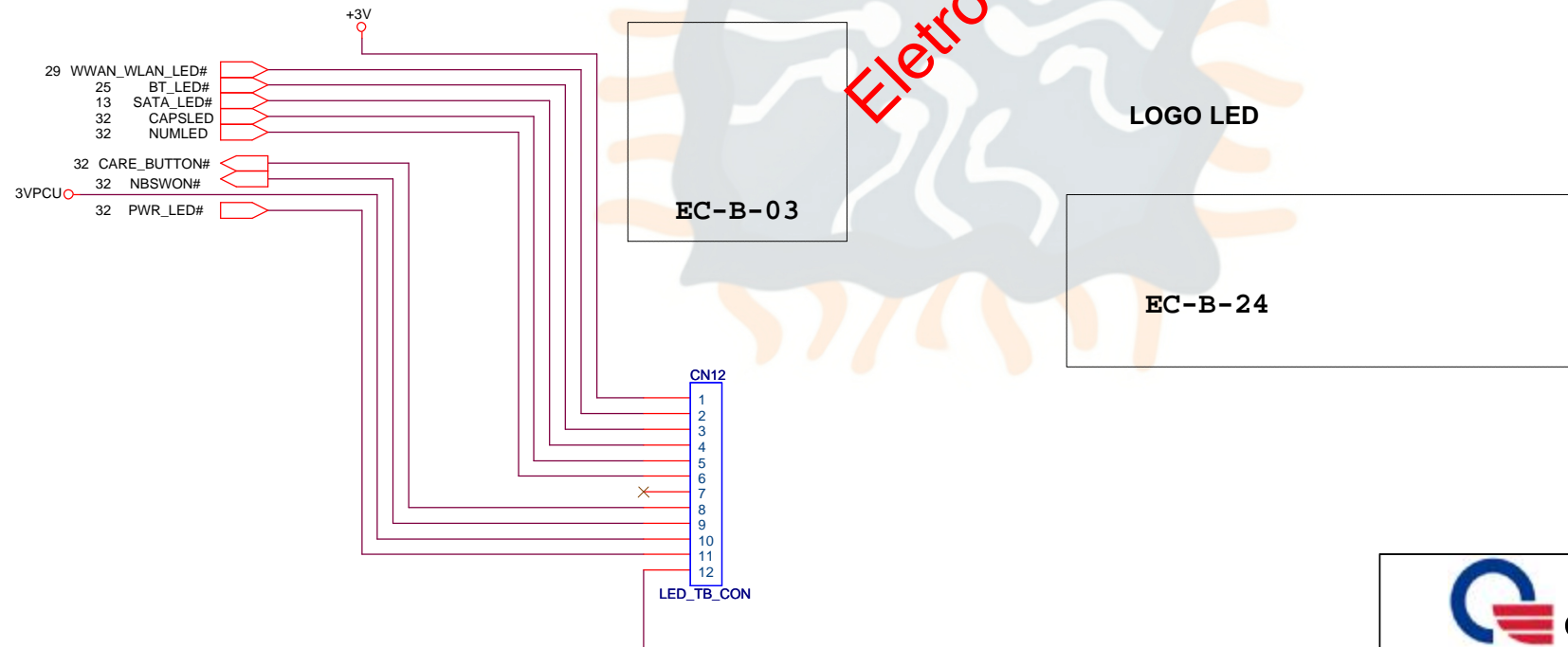
Daughter Boards for LEDs & Ports

30

FFC TO KBD LEFT SIDE CONNECTOR

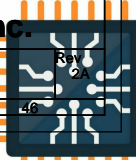


FFC TO LED RIGHT SIDE CONNECTOR

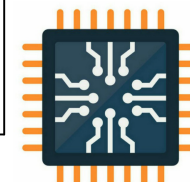


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Quanta Computer Inc.

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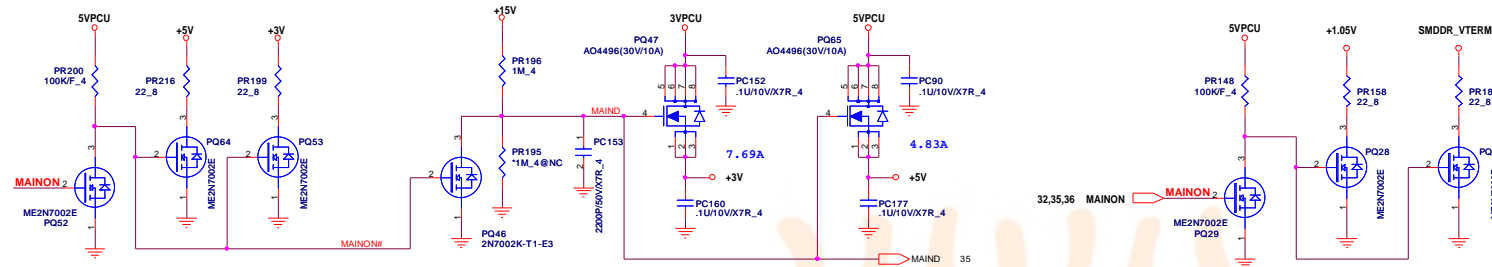
ELETRO-X





+3V, +5V

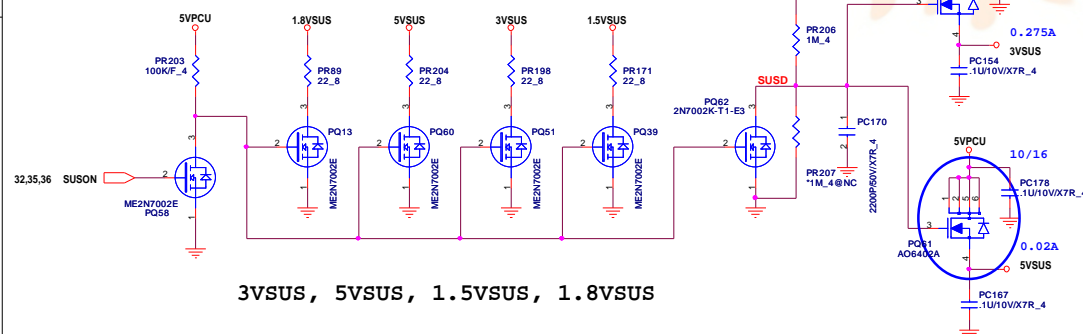
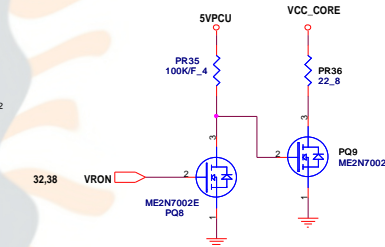
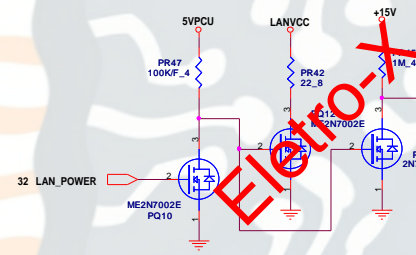
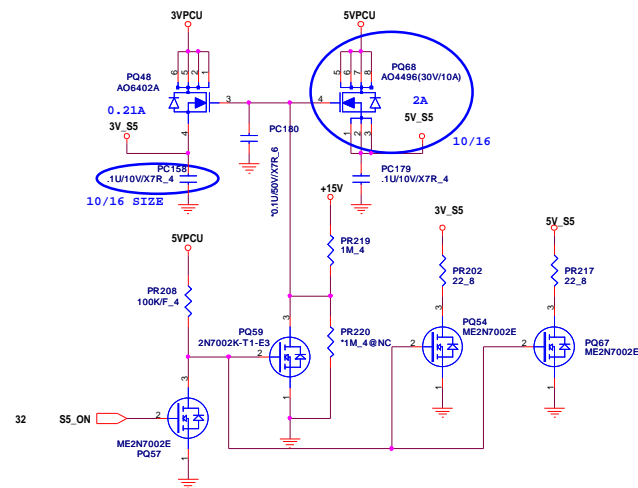
+1.05V, SMDDR_VTERM



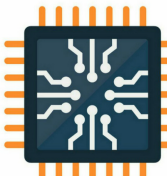
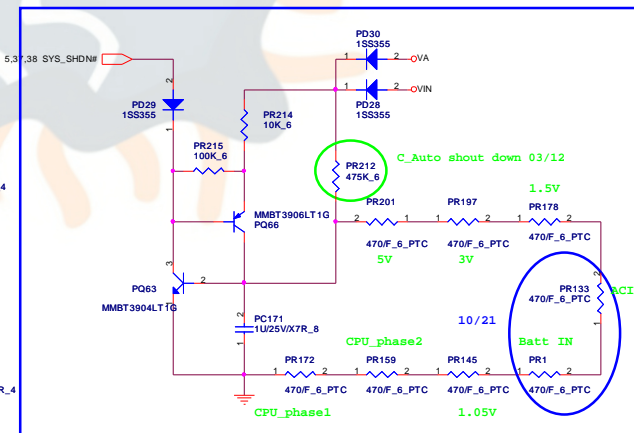
3V_S5, 5V_S5

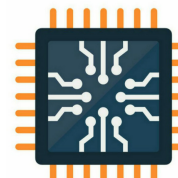
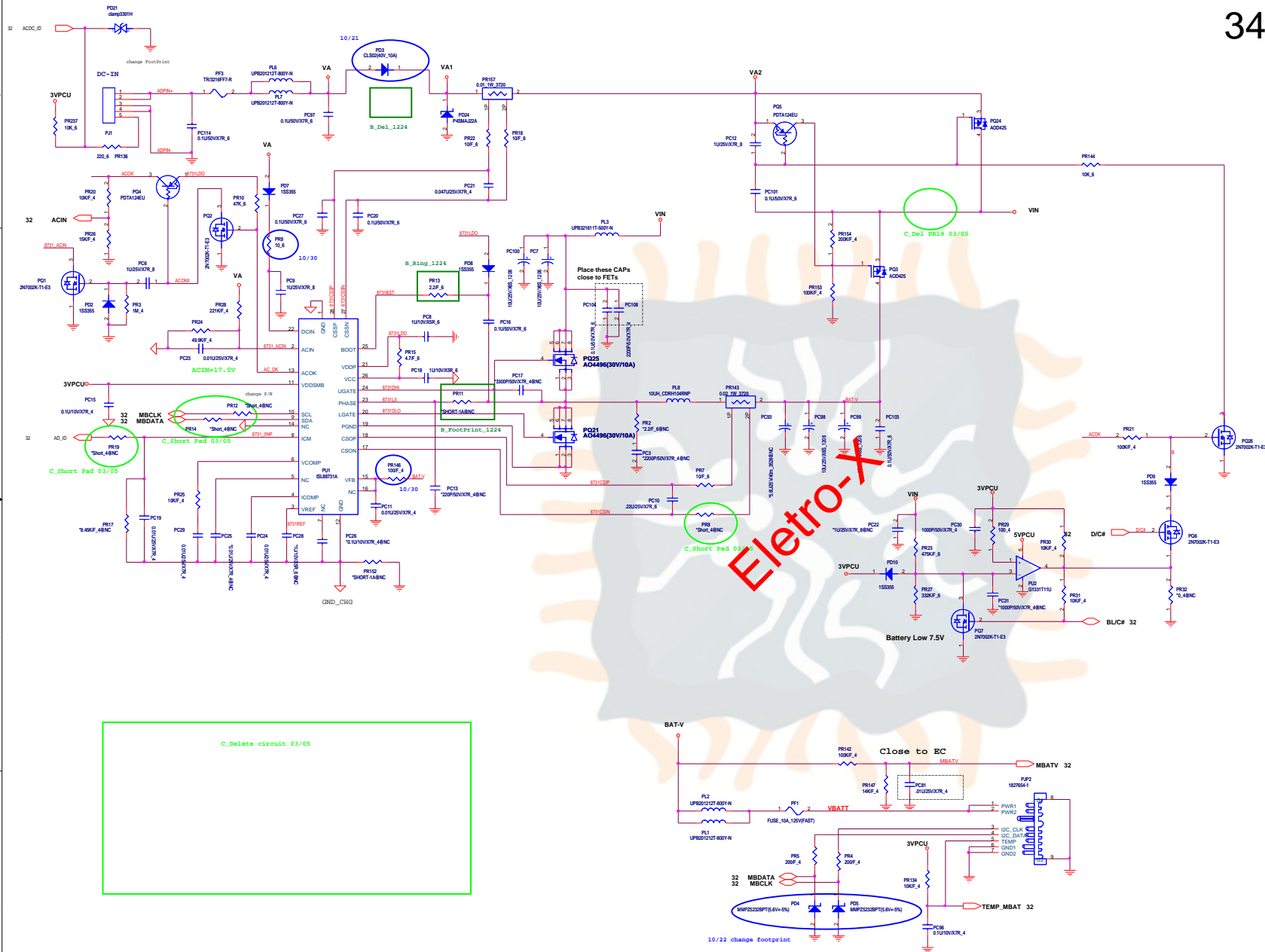
LANVCC

VCC_CORE

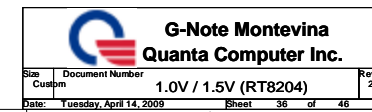


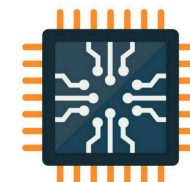
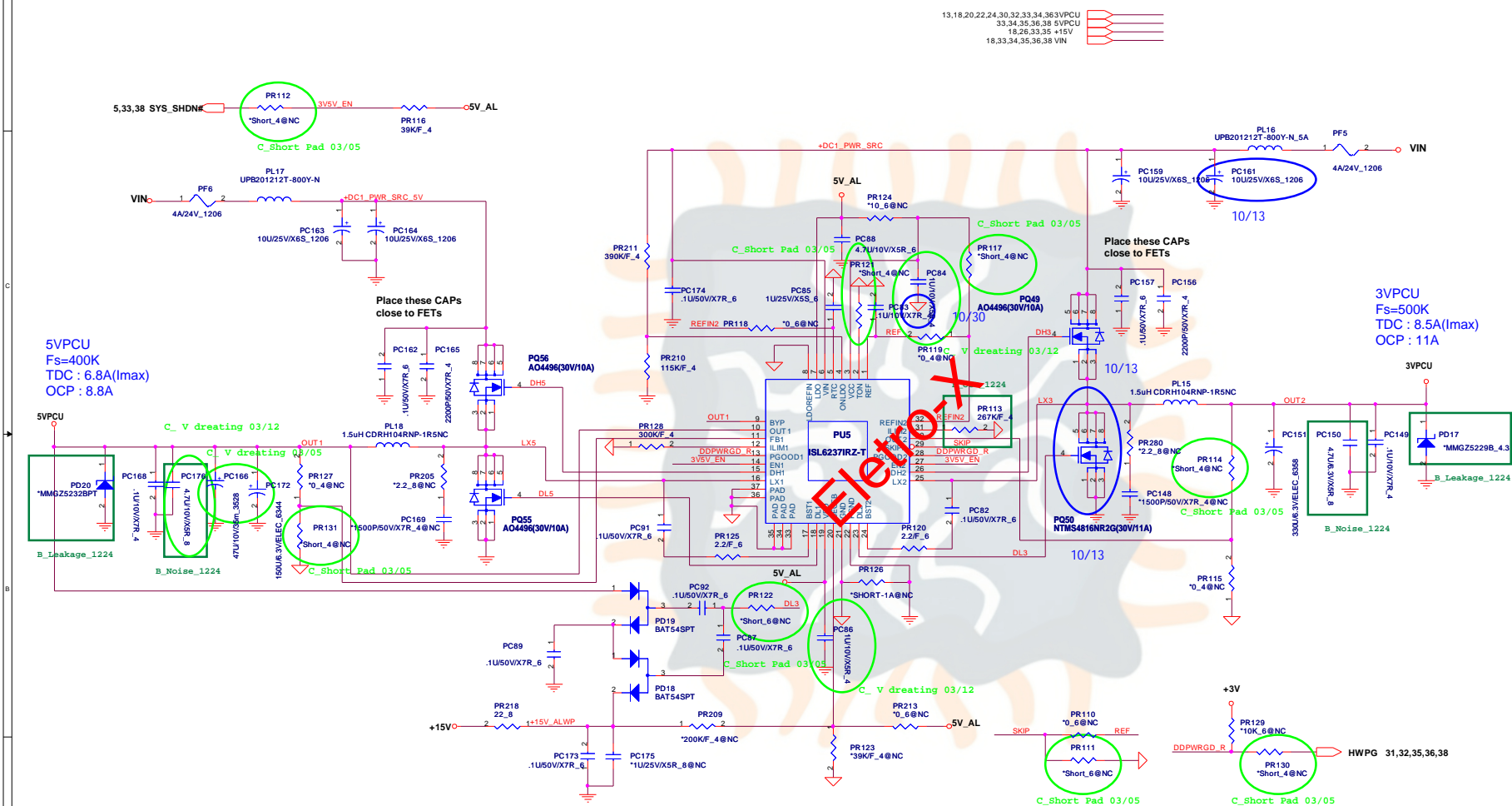
3VSUS, 5VSUS, 1.5VSUS, 1.8VSUS

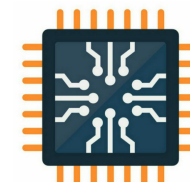
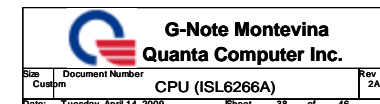












Revision History

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

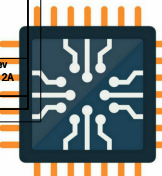
Schematic Value Explanation Description :

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

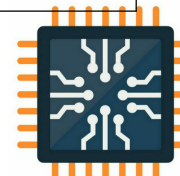


stage EC NO. Page date Location


description

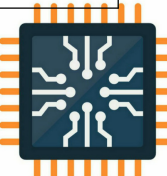
EC-A-01	22	12/02	U8	LAN IC change footprint from 0.4 to 0.5 pich
EC-A-02	21	12/02	U27	audio IC edit parts add 9 agnd via
EC-A-03	03	12/02	U22	DREFSSCLK/#,DREFCLK/# update correct SRC and dot 96
EC-A-04	31	12/02	U40,R367	add r367 pull up 10kohm for debug code:F4
EC-A-05	14,15	12/02	R472,R243	CCD_ON net change to HDD_DETECT#(pull 100Kohm at R243) ,del R472 Re-assign HDD_Detect# to GPIO38 of ICH9M in order to solve the issue unable to boot from HDD.
EC-A-06	03	12/02	R293	change to 4.7Kohm To solve N.B. cannot get correct FSB frequency selection (error coed 02)
EC-A-07	32	12/09	U24.57,R1004,R1005	adaptor 90W(pull high), 65W(pull low)
EC-A-08	18	12/09	Q8	THINK LIGHT#
EC-A-09	30	12/09	R1006,R1007	MY13,MY11
EC-A-10	29	12/09	CN11	CLKRUN# SERIRQ LPC_LDRQ0# LPC_PD#
EC-A-11	10	12/19	L39	NB IND 0805 to 0603 for height limilt at DDR place
EC-A-12	21	12/09	c286,c287,c312,c326 ,c362,c372,c373	audio cap 0805 to 0603 for height limilt at new card place
EC-A-13	21	12/19	U27	audio vendor ask AGND to DGND
EC-A-14	18	12/19	CN5	LCD connector add GND for shield (EMI request)
EC-A-15	18	12/19	C178	cap 0805 to 0603 for new card height interfere
EC-A-16	29	12/23		Del aux_en_wowl reserved circuit
EC-A-17	5	12/23	del u34,c407,q10,q23,q28,e388,r390,r396,r398,q22 ,q20,r394(NC), q19,c389,r411,c457,u36,r417(NC),r418 add q10,q19,q20,r91(NC),r299,r101,r618,r102,r94 ,c153,u9,c388	change thermal sensor
EC-A-18	21	12/30	del R347(NC) add C710(NC),U54(NC)	Add new schematic to prevent "POP" sound.
EC-A-19	21	12/30	C261 R253 C259	remove C261 for THD+N remove R253 and put 0 ohm in C259 for Magantiude response
EC-A-20	18	12/30	R127 R126 R124 R125	Del R126, R125 /R127,R124 change to 10Kohm for PM common design
EC-A-21	15	12/30	R180 R181	R180 POP , R181 DEPOP for SIV stage
EC-A-22	19	1/6	del R149 R227	cancel IO_GND(EMI)

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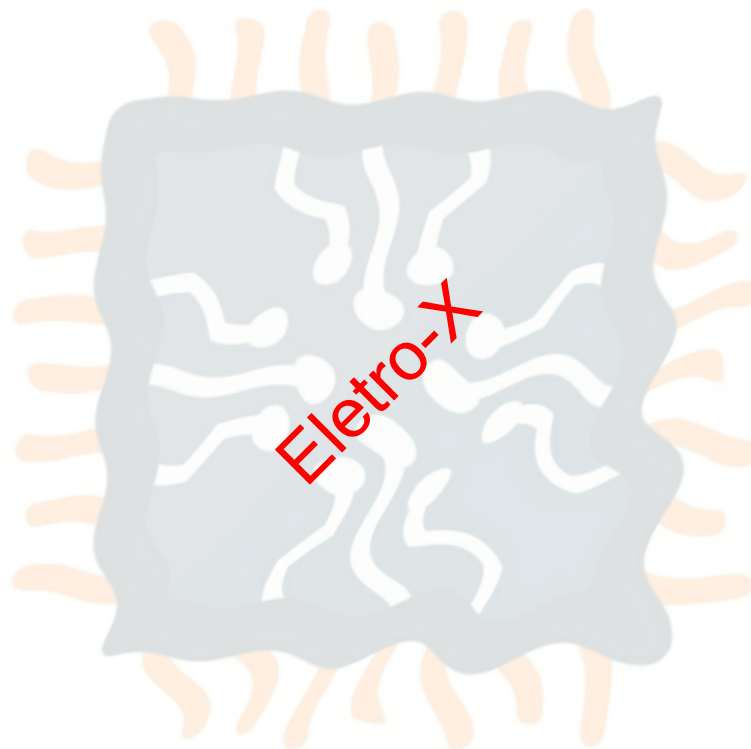



stage	EC NO.	Page	date	Location	description
EC-A-23	30	1/6		add R125 R126 R227 R367 R375 del D14	EMI RESERVED
EC-A-24	21	1/6		R357 R354 change to 1k ohm	vendor's suggest . change 1k ohm for ESD
EC-A-24	22	1/6		add R579 R580	add moat for EMI, reserved bridge
EC-A-25	20	1/6		CN27	CN27 pin definid for EMI
EC-A-26	23	1/6			C469 C470 change to 10u/ 10v/X5R/0805 for derating(6.3v to 10v)
EC-A-27	03	1/19		C323 (18p cap pop)	clock generator for USB 48MHz slew rate
EC-B-01	22	3/3			LAN LED indicator definition wrong (LED0 & LED1 Reversed)
EC-B-02	28,14,3	3/3		CN9,R430,R429,R432,R433,R437,R435,U38(nc), C498,C485,C476,C479,C478,C191,C192,RP4,R267,R263	deleted uwb circuit
EC-B-03	23,30	3/3		deleted CN2(POWER/B),CN19(ODD) / (CN12 pop)	cancel GC1 connector
EC-B-04		3/3		P3:R316,R320,R290,R291,R230,R231,RP3,RP5,RP6,RP7 P4:R50 P5:R94 P7:R407,R413,R35,R39 P10:R399,R397,R416,R8,L2,R24,R59,L43,R409,R386,R16,R408 P11:R72 P15:R216, R312(NC) P16:R268,R298,R461,R176,R434,R241,R482,R487,R486,R156,R484,R297,R296,R209 P17:R62,R60,R57,R42,R47,R392,R422,R406,R419 P18:R142,R138,R103,R123,R121 P19:L16,L47,L46,L11,R220 P20:R495,R374 P21:R324,R332,R311,C259,R254,R261 P22:R98,R85,R96,R104,R88 P23:R269,R389,R69 P24:R89,R423,R424,R114 P29:R445,R446,R465,R469,R455,R473,R470 P30:R125,R126,R227,R367,R375,R1007 P32:R351,R336	deleted 0ohm
EC-B-05		3/3		P14:R270 P18:R106 P21:R376,R372,R233,R234,R240,R305 P25:R492,R491 P26:R328 P29:R454,R476 P32:R315 P18:R136,R137,R93 P19:R165,R160,R173,R169,R185,R178,R202,R194 P20:R494,R497,R498,R499,R493,R496 P23:R82,R83 P24:R129 P27:R159,R104	0ohm change to short pad
EC-B-06	24,27,29	3/3		R464,R462,R466,R468 0-->4.7K(NC) Add R209,R216 10K	smb change to pull up
EC-B-07	27	3/3		add C523(0.047u cap)	new card power switch change to 3vsus PCIE_WAKE# add C523(0.047u cap)
EC-B-08	26	3/3		Add R8(10ohm)	for sensitivity of G sensor
EC-B-09	31	3/3			RFID u40 change to TSSOP R1000 change to 1K R1002,R1003 change to 100k
EC-B-10	15	3/3		R180,R207 depop,R192,R181 pop	Change board ID to SIT
EC-B-11	21	3/4		Add C389(NC),C390(NC)	Audio speaker ,EMI
EC-B-12	24	3/5		CN4	K/B CN pin 1 need to rotate 180 degree and footprint
EC-B-13	17	3/5		Delete C419(NC),C459(NC),C71(NC),C73(NC)	SMT open issue. crt R,C too much and close that hard to rework
EC-B-14	21,22,30	3/6		Add C191,C192,C259,C395,C407,C419,C459 R236~R239 0ohm-->bead	EMI solution

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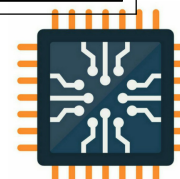


stage	EC NO.	Page	date	Location	description
EC-B-15	21	3/9	Delete C246~C249(NC)		delete audio reserve parts
EC-B-16	3	3/9	Delete R325,R292,R232 add L43,L46~L50		for RF request
EC-B-17	23	3/11	Delete U4,U6 Add R57		for ESD request
EC-B-18	18	3/12	Delete C181(NC),C182(NC) Add R123		for EMI request
EC-B-19	22	3/12	change R579,R580--> 0.1u		for LAN realtek design guide



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ELETRO-2



EC NO.	PG.	DATE	PART REFERENCE	DESCRIPTION
EC-A-01	34	12/24	PR10	Change Footprint
EC-A-02	34	12/24	PR12	Change to 2.2 ohm reduce phase ring
EC-A-03	34	12/24	PD6	Delete Footprint
EC-A-04	35	12/24	PJP7,PJP5,PJP6	Change Footprint
EC-A-05	35	12/24	PR94	Change to 5.36K for OCP
EC-A-06	35	12/24	PC145	Add 1000p for stability
EC-A-07	36	12/24	PJP3,PJP4,PJP1	Change Footprint
EC-A-08	36	12/24	PR139	Change to 3.4K for OCP
EC-A-09	36	12/24	PC110	Add 1000p for stability
EC-A-10	36	12/24	PL5,PR155	Reduce ripple voltage
EC-A-11	37	12/24	PR113	Change to 267K for OCP
EC-A-12	37	12/24	PC150,PC176	Change to 4.7u reduce H.F. noise reduce
EC-A-13	37	12/24	PD20,PD17	NA to reduce leakage current
EC-A-14	38	12/24	PR72	Change to 12.1K for OCP
EC-A-15	38	12/24	PR88	Change to 11.3K for frequency 300KHz
EC-A-16	38	12/24	PJP5,PJP6,PJP7	Modify schematic PQ30,PQ35 for NA

Title		
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