

To Type C

USB-C\* Signals Mapping

Port <sup>(1)</sup>	Processor to Re-timer	Re-timer to USB-C* Connector	Processor to USB-C* Connector w/o re-timer
Port 0	TCP0_TX0	TCP0_RT_TX0	TCP0_DIRECT_TX0
	TCP0_TX1	TCP0_RT_TX1	TCP0_DIRECT_TX1
	TCP0_TXRX0	TCP0_RT_TXRX0	TCP0_DIRECT_TXRX0
	TCP0_TXRX1	TCP0_RT_TXRX1	TCP0_DIRECT_TXRX1

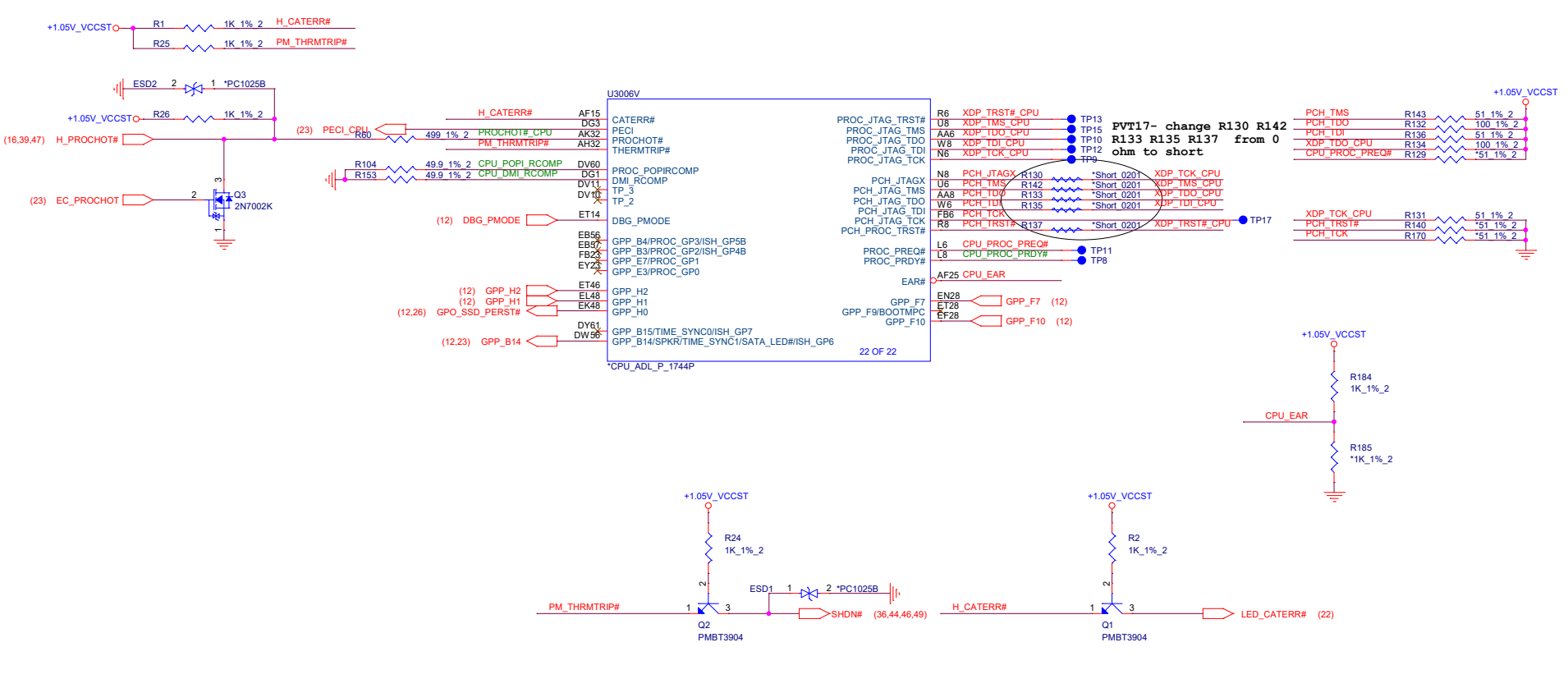
DDI Port Signal Mapping for HDMI\*

Description	Signal Mapping		
	DDI	HDMI (Default non-reversed)	HDMI (Reversed)
Main Link (Tx)	DDI_TX0	HDMI Data_2	HDMI CLK
	DDI_TX1	HDMI Data_1	HDMI Data_0
	DDI_TX2	HDMI Data_0	HDMI Data_1
	DDI_TX3	HDMI CLK	HDMI Data_2

**Quanta Computer Inc.**  
PROJECT : TRA

Size	Document Number	Rev
	<b>ADL-P 1/14 (DDI/TBT/eDP)</b>	2D
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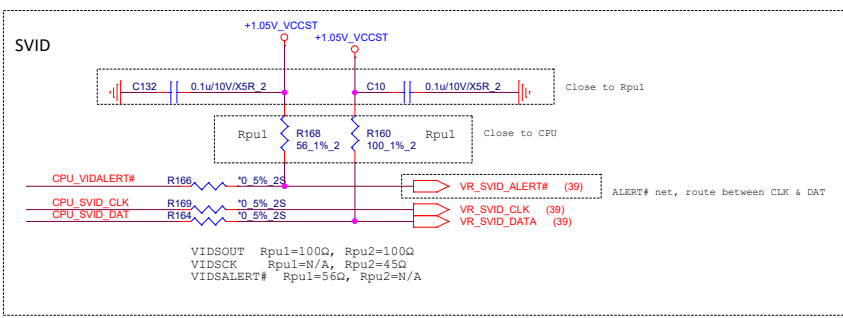
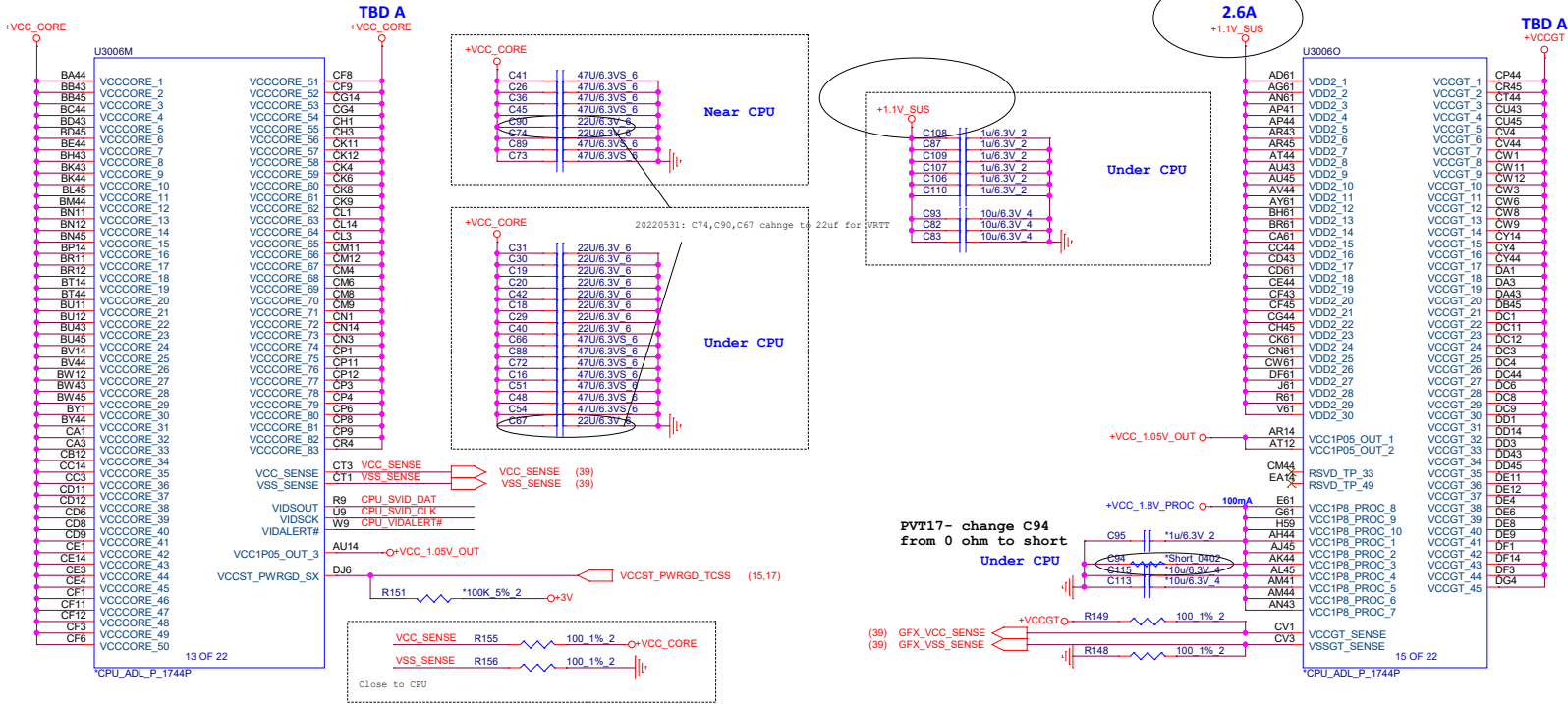




This part should not contain any substances which are specified in EM-S303.

20220318a

		<b>Quanta Computer Inc.</b> PROJECT : TRA	
		Size Document Number <b>ADL-P 3/14 (CPU MISC/JTA)</b>	Rev 1A
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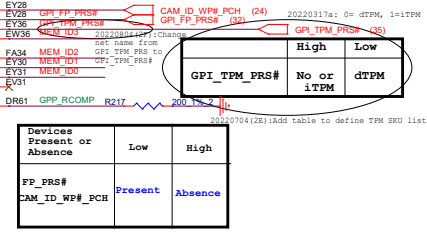
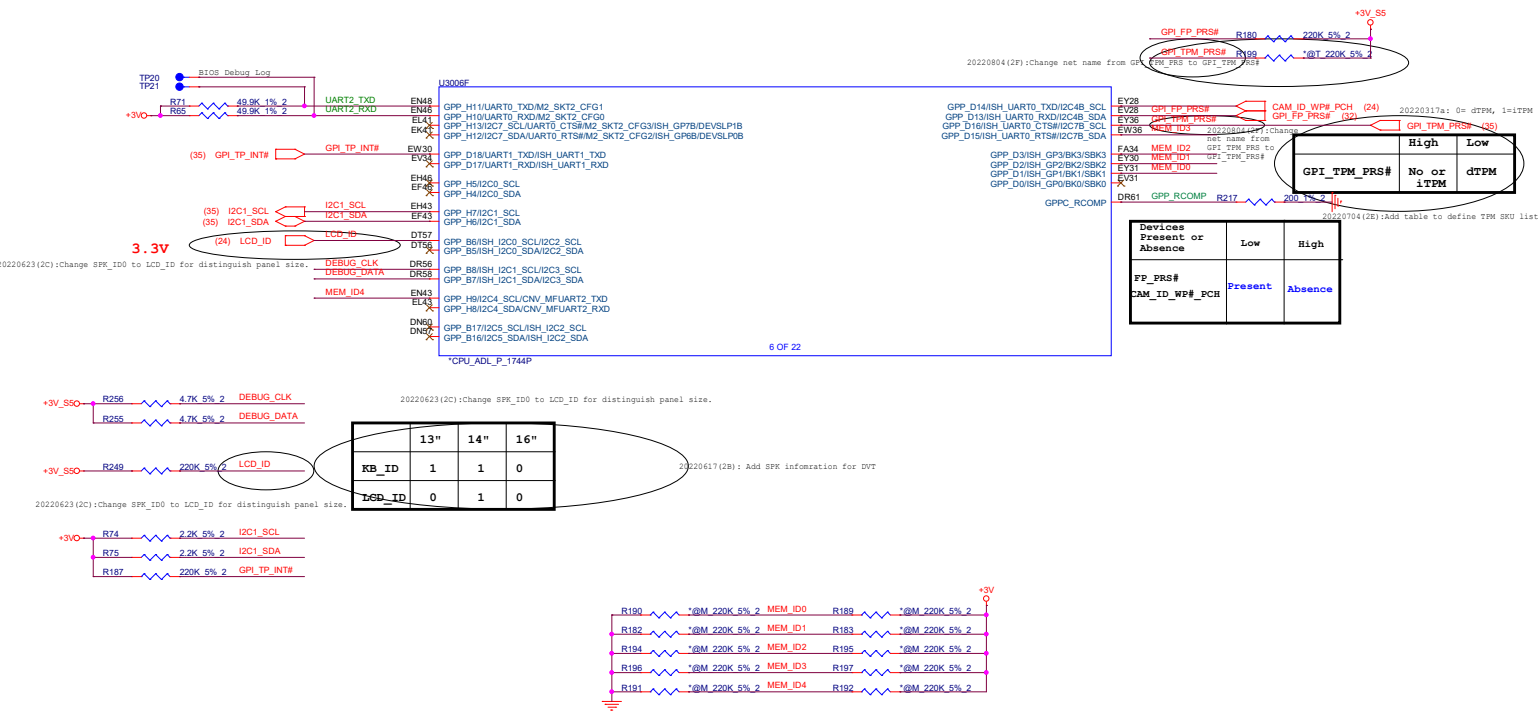


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**Quanta Computer Inc.**  
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Size Document Number **ADL-P 4/14 (VCCIN/VDDQ/GT)** Rev 2A  
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This part should not contain any substances which are specified in 6M-5303.



**LPDDR4 Memory Strap**

System Memory Size (byte)	Part capacity(bit)	Vendor Part Number	Quanta P/N	ID4	ID3	ID2	ID1	ID0	Memory Fre(MHZ)
Samsung 8GB	Samsung 16Gb	K4U6E3S4AB-MGCL	AKD5ZRST571	0	0	1	1	1	4266MHZ
Samsung 16GB	Samsung 32Gb/DDP	K4UBE3D4AB-MGCL	AKD5PZST566	0	1	0	0	0	4266MHZ
Samsung 32GB	Samsung 64Gb/QDP	K4UCE3Q4AB-MGCL	AKD5QZST544	0	1	0	0	1	4266MHZ
Micron 8GB	Micron 16Gb/SDP	MT53E512M32D1NP-046 WT:B	AKD5RZSTL24	0	1	0	1	0	4266MHZ
Micron 16GB	Micron 32Gb/DDP	MT53E1G32D2NP-046 WT:B	AKD5SWDTL36	0	1	0	1	1	4266MHZ
Micron 32GB	Micron 64Gb/QDP	MT53E2G32D4NQ-046 WT:C	AKD5QWUTL11	0	1	1	0	0	4266MHZ
Hynix 8GB	Hynix 16Gb	H54G64CYRBX267	AKD5RGSTW09	0	1	1	0	1	4266MHZ
Hynix 16GB	Hynix 32Gb/DDP	H54G65CYRBX247	AKD5SGSTW11	0	1	1	1	0	4266MHZ
Hynix 32GB	Hynix 64Gb	H54G68CYRBX248	AKD5TGSTW02	0	1	1	1	1	4266MHZ

**DDR4 Memory Strap**

System Memory Size (byte)	Part capacity(bit)	Vendor Part Number	Quanta P/N	ID4	ID3	ID2	ID1	ID0	Memory Fre(MHZ)
Samsung 8GB	SDP 16Gb x16 (T7:NC)	K4AAG165WB-BCWE	AKD5LGUT517	0	0	0	0	0	3200MHZ
Samsung 16GB	DDP 32Gb x16 (T7:VSS)	K4ABG165WB-MCWE	AKD5SGST518	0	0	0	0	1	3200MHZ
Micron 8GB	SDP 16Gb x16 (T7:NC)	MT40A1G16TB-062E:F	AKD5RGSTL25	0	0	0	1	0	3200MHZ
Micron 16GB	DDP 32Gb x16 (T7:NC)	MT40A2G16SKL-062E:B	AKD5SGSTL04	0	0	0	1	1	3200MHZ
Hynix 8GB	SDP 16Gb x16 (T7:NC)	H5ANAG6NCJR-XNC	AKD5RGUTW38	0	0	1	0	0	3200MHZ
Hynix 16GB	DDP 32Gb x16 (T7:VSS)	H5ANBG6NCMR-XNC	AKD5SGSTW12	0	0	1	0	1	3200MHZ
Micron 16GB	DDP 32Gb x16 (T7:NC)	MT40A2G16TBB-062E:F	AKD5SGSTL07	0	0	1	1	0	3200MHZ

20220804a

**Quanta Computer Inc.**  
**PROJECT : TRA**  
 Size Document Number Rev. 2F  
**ADL-P 5/14 (I2C/ISH)**  
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A3	VSS_A3	VSS_AL15	AL15
A10	VSS_A10	VSS_AL17	AL17
A21	VSS_A21	VSS_AL22	AL22
A23	VSS_A23	VSS_AL4	AL4
A25	VSS_A25	VSS_AL41	AL41
A26	VSS_A26	VSS_AL41	AL54
A28	VSS_A28	VSS_AL54	AM11
A30	VSS_A30	VSS_AM11	AM3
A31	VSS_A31	VSS_AM3	AM51
A33	VSS_A33	VSS_AM51	AM55
A40	VSS_A40	VSS_AM55	AM9
A47	VSS_A47	VSS_AM9	AN17
A53	VSS_A53	VSS_AN17	AN40
A60	VSS_A60	VSS_AN40	AN46
AA11	VSS_AA11	VSS_AN46	AN48
AA21	VSS_AA21	VSS_AN48	AN58
AA26	VSS_AA26	VSS_AN58	AP1
AA31	VSS_AA31	VSS_AP1	AP15
AA35	VSS_AA35	VSS_AP15	AP20
AA40	VSS_AA40	VSS_AP20	AP22
AA44	VSS_AA44	VSS_AP22	AP25
AA47	VSS_AA47	VSS_AP25	AP35
AA57	VSS_AA57	VSS_AP35	AP51
AA59	VSS_AA59	VSS_AP51	AP55
AB16	VSS_AB16	VSS_AP55	AR4
AB21	VSS_AB21	VSS_AR4	AR4
AB26	VSS_AB26	VSS_AR4	AR54
AB31	VSS_AB31	VSS_AR54	AT47
AB35	VSS_AB35	VSS_AT47	AT57
AB54	VSS_AB54	VSS_AT57	AT59
AC4	VSS_AC4	VSS_AT59	AT6
AC40	VSS_AC40	VSS_AT6	AT8
AC44	VSS_AC44	VSS_AT8	AU54
AC51	VSS_AC51	VSS_AU54	AV11
AC55	VSS_AC55	VSS_AV11	AV4
AC8	VSS_AC8	VSS_AV4	AV9
AC28	VSS_AC28	VSS_AV9	AW1
AD21	VSS_AD21	VSS_AW1	AW14
AD26	VSS_AD26	VSS_AW14	AW51
AD31	VSS_AD31	VSS_AW51	AW55
AD35	VSS_AD35	VSS_AW55	AY1
AD46	VSS_AD46	VSS_AY1	AY43
AD48	VSS_AD48	VSS_AY43	AY46
AD58	VSS_AD58	VSS_AY46	AY48
AE12	VSS_AE12	VSS_AY48	AY51
AE17	VSS_AE17	VSS_AY51	AY55
AE22	VSS_AE22	VSS_AY55	AY58
AE27	VSS_AE27	VSS_AY58	AY9
AE32	VSS_AE32	VSS_AY9	B34
AE37	VSS_AE37	VSS_B34	B4
AE40	VSS_AE40	VSS_B4	B43
AE44	VSS_AE44	VSS_B43	B50
AE52	VSS_AE52	VSS_B50	B58
AE9	VSS_AE9	VSS_B58	B61
AF4	VSS_AF4	VSS_B61	BA4
AF46	VSS_AF46	VSS_BA4	BB12
AG1	VSS_AG1	VSS_BB12	BB54
AG51	VSS_AG51	VSS_BB54	BB6
AG55	VSS_AG55	VSS_BB6	BB8
AG58	VSS_AG58	VSS_BB8	BB9
AH9	VSS_AH9	VSS_BB9	BC14
AJ3	VSS_AJ3	VSS_BC14	BC47
AJ41	VSS_AJ41	VSS_BC47	BC57
AJ47	VSS_AJ47	VSS_BC57	BC59
AJ49	VSS_AJ49	VSS_BC59	BD4
AJ54	VSS_AJ54	VSS_BD4	BD54
AK20	VSS_AK20	VSS_BD54	BE1
AK25	VSS_AK25	VSS_BE1	BE12
AK30	VSS_AK30	VSS_BE12	BE51
AK37	VSS_AK37	VSS_BE51	BE55
AK4	VSS_AK4	VSS_BE55	BE9
AK57	VSS_AK57	VSS_BE9	BF46
AK59	VSS_AK59	VSS_BF46	BF48
AK9	VSS_AK9	VSS_BF48	

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\*CPU\_ADL\_P\_1744P

U3006Q

BF58	VSS_BF58	VSS_CD58	CD58
BG12	VSS_BG12	VSS_CE51	CE51
BG21	VSS_BG21	VSS_CE55	CE55
BG44	VSS_BG44	VSS_CF47	CF47
BG52	VSS_BG52	VSS_CF49	CF49
BG9	VSS_BG9	VSS_CF54	CF54
BH4	VSS_BH4	VSS_CF59	CF59
BH46	VSS_BH46	VSS_CG59	CG59
BH48	VSS_BH48	VSS_CH11	CH11
BH58	VSS_BH58	VSS_CH12	CH12
BJ51	VSS_BJ51	VSS_CH12	CH12
BJ51	VSS_BJ51	VSS_CH54	CH54
BJ54	VSS_BJ54	VSS_CH6	CH6
BJ8	VSS_BJ8	VSS_CH6	CH8
BJ8	VSS_BJ8	VSS_CH8	CH9
BJ9	VSS_BJ9	VSS_CH9	CJ14
BL11	VSS_BL11	VSS_CJ4	CJ4
BL4	VSS_BL4	VSS_CJ4	CJ44
BL54	VSS_BL54	VSS_CJ44	CK1
BL9	VSS_BL9	VSS_CK1	CK3
BL9	VSS_BL9	VSS_CK3	CK43
BM1	VSS_BM1	VSS_CK43	CK46
BM14	VSS_BM14	VSS_CK46	CK48
BM47	VSS_BM47	VSS_CK48	CK51
BM57	VSS_BM57	VSS_CK51	CK59
BM59	VSS_BM59	VSS_CK55	CK59
BN1	VSS_BN1	VSS_CK59	CM52
BN54	VSS_BN54	VSS_CM52	CM46
BN9	VSS_BN9	VSS_CM46	CM58
BP4	VSS_BP4	VSS_CN58	CP51
BP51	VSS_BP51	VSS_CP51	CP55
BP55	VSS_BP55	VSS_CR43	CR43
BR43	VSS_BR43	VSS_CR43	CR47
BR46	VSS_BR46	VSS_CR47	CR49
BR48	VSS_BR48	VSS_CR49	CR54
BR58	VSS_BR58	VSS_CR54	CT11
BR6	VSS_BR6	VSS_CT11	CT57
BR8	VSS_BR8	VSS_CT57	CT59
BR9	VSS_BR9	VSS_CT59	CT6
BT4	VSS_BT4	VSS_CT6	CT8
BT51	VSS_BT51	VSS_CT8	CT9
BT55	VSS_BT55	VSS_CT9	CU4
BU54	VSS_BU54	VSS_CU4	CU54
BU9	VSS_BU9	VSS_CU54	CV14
BV1	VSS_BV1	VSS_CV14	CV43
BV47	VSS_BV47	VSS_CV43	CV46
BV57	VSS_BV57	VSS_CV46	CV48
BV59	VSS_BV59	VSS_CV48	CV51
BW4	VSS_BW4	VSS_CW51	DV4
BW54	VSS_BW54	VSS_CW55	DV44
BW9	VSS_BW9	VSS_CW58	DV49
BY3	VSS_BY3	VSS_CW58	DV56
C1	VSS_C1	VSS_CW51	DV58
C21	VSS_C21	VSS_CW55	DV6
C25	VSS_C25	VSS_D14	D14
C28	VSS_C28	VSS_D17	D17
C31	VSS_C31	VSS_D20	D20
C34	VSS_C34	VSS_D21	D21
C40	VSS_C40	VSS_D25	D25
C47	VSS_C47	VSS_D28	D28
C9	VSS_C9	VSS_D31	D31
CA14	VSS_CA14	VSS_D4	D4
CA43	VSS_CA43	VSS_D53	D53
CA46	VSS_CA46	VSS_D56	D56
CA48	VSS_CA48	VSS_D58	D58
CA51	VSS_CA51	VSS_D59	D59
CA55	VSS_CA55	VSS_D9	D9
CA58	VSS_CA58	VSS_DA11	DA11
CB4	VSS_CB4	VSS_DA12	DA12
CB6	VSS_CB6	VSS_DA8	DA8
CB8	VSS_CB8	VSS_DA9	DA9
CB9	VSS_CB9	VSS_DB14	DB14
CC1	VSS_CC1	VSS_DB4	DB4
CC52	VSS_CC52	VSS_DB4	DB54
CD46	VSS_CD46	VSS_DB54	

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\*CPU\_ADL\_P\_1744P

U3006R

DC47	VSS_DC47	VSS_ED58	ED58
DC54	VSS_DC54	VSS_ED6	ED6
DC57	VSS_DC57	VSS_ED60	ED60
DC59	VSS_DC59	VSS_ED8	ED8
DE44	VSS_DE44	VSS_ED8	EE16
DE51	VSS_DE51	VSS_EE16	EE43
DE55	VSS_DE55	VSS_EE43	EE51
DF43	VSS_DF43	VSS_EE51	EF13
DF46	VSS_DF46	VSS_EF13	EF18
DF48	VSS_DF48	VSS_EF8	EH13
DF58	VSS_DF58	VSS_EH13	EH8
DG11	VSS_DG11	VSS_EH8	EK21
DG12	VSS_DG12	VSS_EK21	EK28
DG51	VSS_DG51	VSS_EK28	EK36
DG55	VSS_DG55	VSS_EK36	EK43
DG6	VSS_DG6	VSS_EK43	EK51
DG8	VSS_DG8	VSS_EK51	EK56
DG9	VSS_DG9	VSS_EK56	EK58
DH4	VSS_DH4	VSS_EK58	EL13
DH54	VSS_DH54	VSS_EL13	EL4
DJ47	VSS_DJ47	VSS_EL4	EL6
DJ57	VSS_DJ57	VSS_EL6	EL8
DJ59	VSS_DJ59	VSS_EN13	EN13
DK14	VSS_DK14	VSS_EN8	EN8
DK54	VSS_DK54	VSS_EP14	EP14
DL10	VSS_DL10	VSS_EP14	ER1
DL11	VSS_DL11	VSS_ER1	ER13
DL13	VSS_DL13	VSS_ER13	ER21
DM4	VSS_DM4	VSS_ER21	ER28
DM41	VSS_DM41	VSS_ER28	ER3
DM41	VSS_DM41	VSS_ER35	ER36
DM48	VSS_DM48	VSS_ER36	ER43
DM51	VSS_DM51	VSS_ER43	ER51
DM55	VSS_DM55	VSS_ER51	ER61
DM58	VSS_DM58	VSS_ER61	ER8
DM6	VSS_DM6	VSS_EU11	EU11
DM61	VSS_DM61	VSS_EU11	EU16
DN13	VSS_DN13	VSS_EU56	EU58
DN40	VSS_DN40	VSS_EU8	EU8
DN8	VSS_DN8	VSS_EV14	EV14
DP46	VSS_DP46	VSS_EV14	EV20
DP49	VSS_DP49	VSS_EV20	EV26
DT13	VSS_DT13	VSS_EV26	EV33
DT52	VSS_DT52	VSS_EV33	EV39
DT8	VSS_DT8	VSS_EV4	EV4
DV13	VSS_DV13	VSS_EV4	EV45
DV4	VSS_DV4	VSS_EV45	EV52
DV44	VSS_DV44	VSS_EV52	EV59
DV49	VSS_DV49	VSS_EV59	EW61
DV56	VSS_DV56	VSS_EW61	EY14
DV58	VSS_DV58	VSS_EY14	EY20
DV6	VSS_DV6	VSS_EY20	EY26
D14	VSS_D14	VSS_EY26	EY31
D17	VSS_D17	VSS_EY31	EY33
D20	VSS_D20	VSS_EY33	EY39
D21	VSS_D21	VSS_EY39	EY4
D25	VSS_D25	VSS_EY4	EY45
D28	VSS_D28	VSS_EY45	EY52
D31	VSS_D31	VSS_EY52	EY56
D38	VSS_D38	VSS_EY56	EY58
DY36	VSS_DY36	VSS_EY58	EY59
DY52	VSS_DY52	VSS_EY59	EY9
DY8	VSS_DY8	VSS_EY9	F21
E43	VSS_E43	VSS_F21	F23
E50	VSS_E50	VSS_F23	F26
EB13	VSS_EB13	VSS_F26	F28
EB26	VSS_EB26	VSS_F28	F30
EB31	VSS_EB31	VSS_F30	F33
EB8	VSS_EB8	VSS_F33	F4
EC21	VSS_EC21	VSS_F4	F40
EC28	VSS_EC28	VSS_F40	F46
ED13	VSS_ED13	VSS_F46	F47
ED4	VSS_ED4	VSS_F47	F52
ED56	VSS_ED56	VSS_F52	

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\*CPU\_ADL\_P\_1744P

U3006S

F56	VSS_F56	VSS_M36	M36
F59	VSS_F59	VSS_M47	M47
F9	VSS_F9	VSS_M57	M57
FA40	VSS_FA40	VSS_M59	M59
FA7	VSS_FA7	VSS_M69	M69
FB1	VSS_FB1	VSS_N1	N4
FB14	VSS_FB14	VSS_N4	N40
FB26	VSS_FB26	VSS_N40	N41
FB42	VSS_FB42	VSS_N41	N48
FB48	VSS_FB48	VSS_N48	N54
FB59	VSS_FB59	VSS_N54	N9
FB61	VSS_FB61	VSS_N9	P11
FB62	VSS_FB62	VSS_P11	P16
FC55	VSS_FC55	VSS_P16	P21
FC56	VSS_FC56	VSS_P21	P26
FC58	VSS_FC58	VSS_P26	P3
FC60	VSS_FC60	VSS_P3	P31
G21	VSS_G21	VSS_P31	P35
G25	VSS_G25	VSS_P35	P47
G28	VSS_G28	VSS_P47	P51
G31	VSS_G31	VSS_P51	P55
G34	VSS_G34	VSS_P55	R12
G42	VSS_G42	VSS_R12	R17
G43	VSS_G43	VSS_R17	R22
G44	VSS_G44	VSS_R22	R27
G50	VSS_G50	VSS_R27	R32
H1	VSS_H1	VSS_R32	R37
H13	VSS_H13	VSS_R37	R44
H16	VSS_H16	VSS_R44	R48
H18	VSS_H18	VSS_R48	R58
H34	VSS_H34	VSS_R58	T1
H37	VSS_H37	VSS_T1	T11
H52	VSS_H52	VSS_T11	T16
H58	VSS_H58	VSS_T16	T21
H6	VSS_H6	VSS_T21	T26
H8	VSS_H8	VSS_T26	T3
H9	VSS_H9	VSS_T3	T31
J11	VSS_J11	VSS_T31	T35
J14	VSS_J14	VSS_T35	T40
J17	VSS_J17	VSS_T40	T52
J20	VSS_J20	VSS_T52	U16
J21	VSS_J21	VSS_U16	U21
J25	VSS_J25	VSS_U21	U26
J28	VSS_J28	VSS_U26	U31
J31	VSS_J31	VSS_U31	U35
J36	VSS_J36	VSS_U35	U44
J39	VSS_J39	VSS_U44	U46
J47	VSS_J47	VSS_U46	V3
J48	VSS_J48	VSS_V3	V30
J51	VSS_J51	VSS_V30	V40
J55	VSS_J55	VSS_V40	V41
K4	VSS_K4	VSS_V41	V51
L12	VSS_L12	VSS_V51	V55
L13	VSS_L13	VSS_V55	V58
L15	VSS_L15	VSS_V58	W1
L17	VSS_L17	VSS_W1	W11
L18	VSS_L18	VSS_W11	W16
L20	VSS_L20	VSS_W16	W21
L22	VSS_L22	VSS_W21	W26
L23	VSS_L23	VSS_W26	W31
L27	VSS_L27	VSS_W31	W35
L30	VSS_L30	VSS_W35	W44
L33	VSS_L33	VSS_W44	Y12
L35	VSS_L35	VSS_Y12	Y17
L36	VSS_L36	VSS_Y17	Y22
L38	VSS_L38	VSS_Y22	Y27
L40	VSS_L40	VSS_Y27	Y32
L54	VSS_L54	VSS_Y32	Y37
L9	VSS_L9	VSS_Y37	Y4
M16	VSS_M16	VSS_Y4	Y45
M21	VSS_M21	VSS_Y45	Y47
M26	VSS_M26	VSS_Y47	Y49
M31	VSS_M31	VSS_Y49	Y54
M32	VSS_M32	VSS_Y54	
M34	VSS_M34		

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\*CPU\_ADL\_P\_1744P

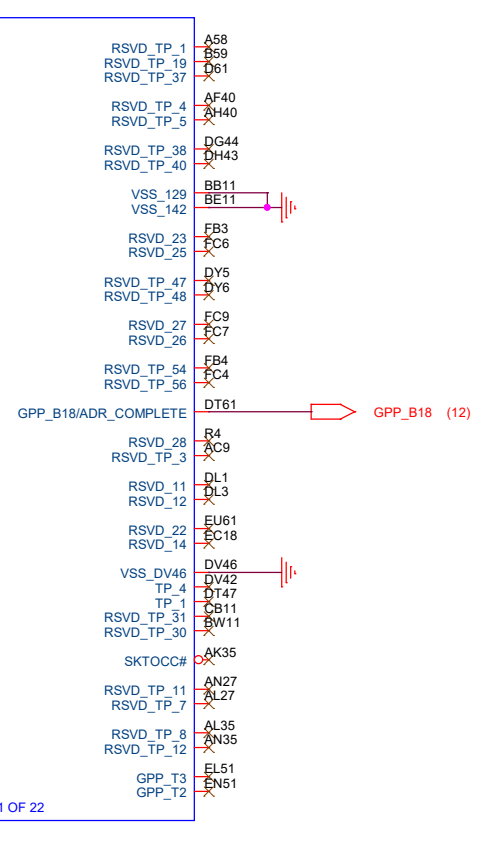
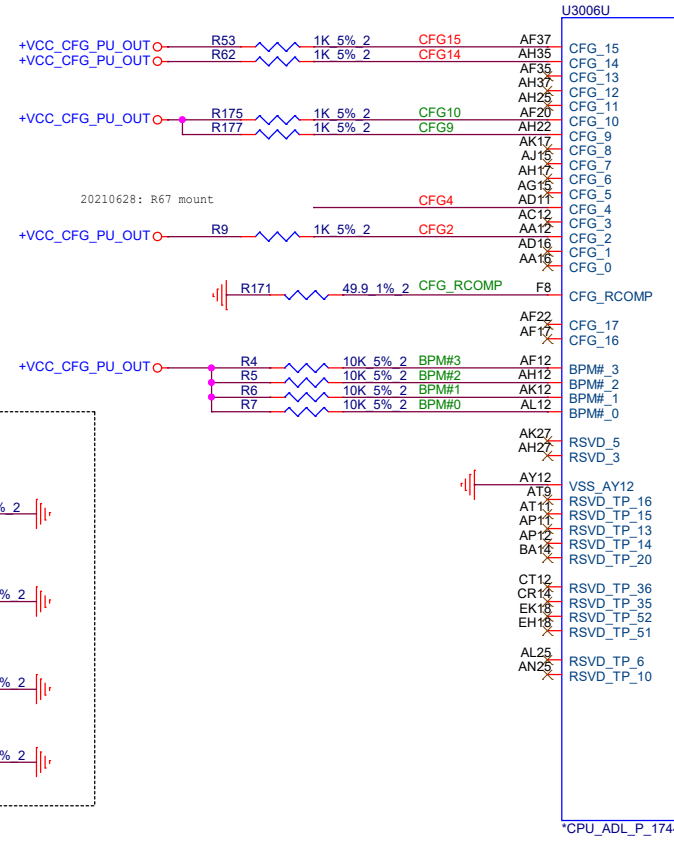
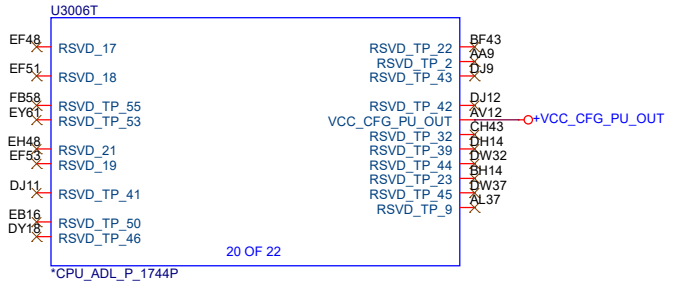
20220216d



Quanta Computer Inc.  
PROJECT : TRA

Size	Document Number	Rev
	ADL-P 6/14 (GND)	1A
Date:	Wednesday, February 01, 2023	Sheet 9 of 50

This part should not contain any substances which are specified in EM-S303.



**CFG**

CFG[4]: eDP enable strap:  
1 Disabled  
0 Enabled

CFG[2]: PCI Express Static Lane Reversal  
1(Default) Normal operation  
0 Lane numbers reversed

CFG[14]: PEG60 Lane Reversal:  
1(Default) Normal  
0 Reversed

CFG[15]: PEG62 Lane Reversal:  
1(Default) Normal  
0 Reversed

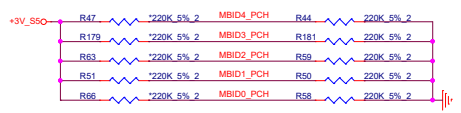
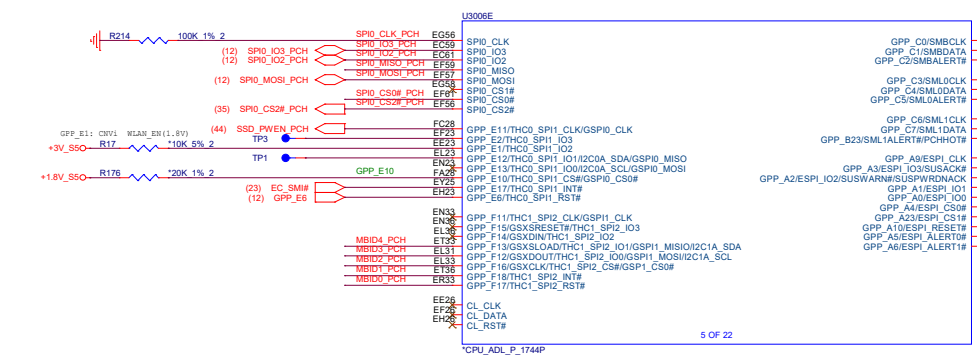
CFG4 R3 1K 5% 2  
CFG2 R11 \*1K 5% 2  
CFG14 R68 \*1K 5% 2  
CFG15 R67 \*1K 5% 2

20220216d

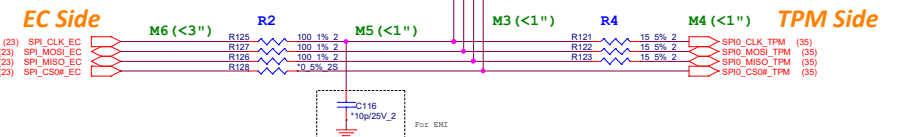
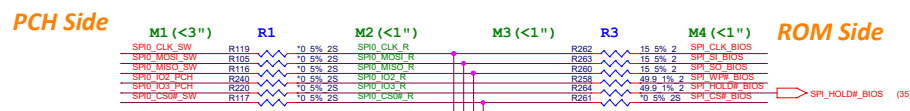
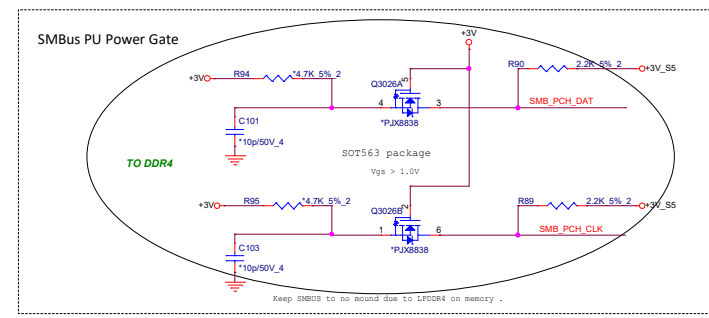
**Quanta Computer Inc.**  
PROJECT : TRA

Size	Document Number	Rev
	ADL-P 7/14 (RSVD/XDP)	1A
Date:	Wednesday, February 01, 2023	Sheet 10 of 50

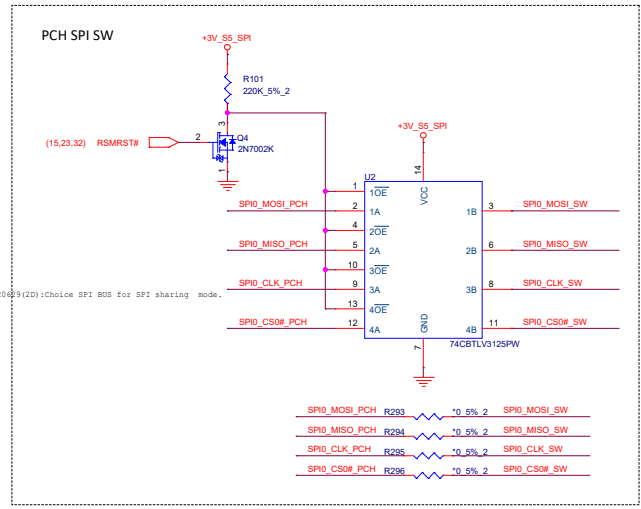
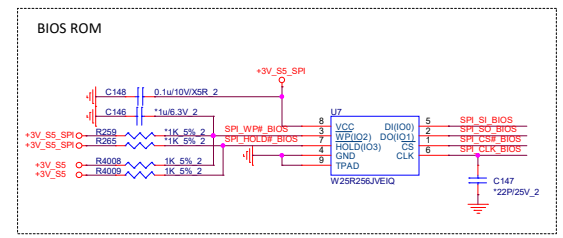
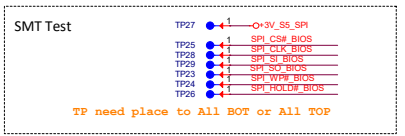
This part should not contain any substances which are specified in EM-S303.



Resistors need to place on CPU side



(M1+M2) - (M5+M6) <= +-2.5" R1: 0ohm (3.3V), 0 ohm (1.8V)  
M1/M3/M4/M6 > 0.5" R2: 100 ohm (3.3V), 50 ohm (1.8V)  
M2/M5 > 0.1" R3: 15 ohm (3.3V), 15 ohm (1.8V)  
CLK - DATA/CS# <= +-0.5" R4: 15 ohm (3.3V), 15 ohm (1.8V)

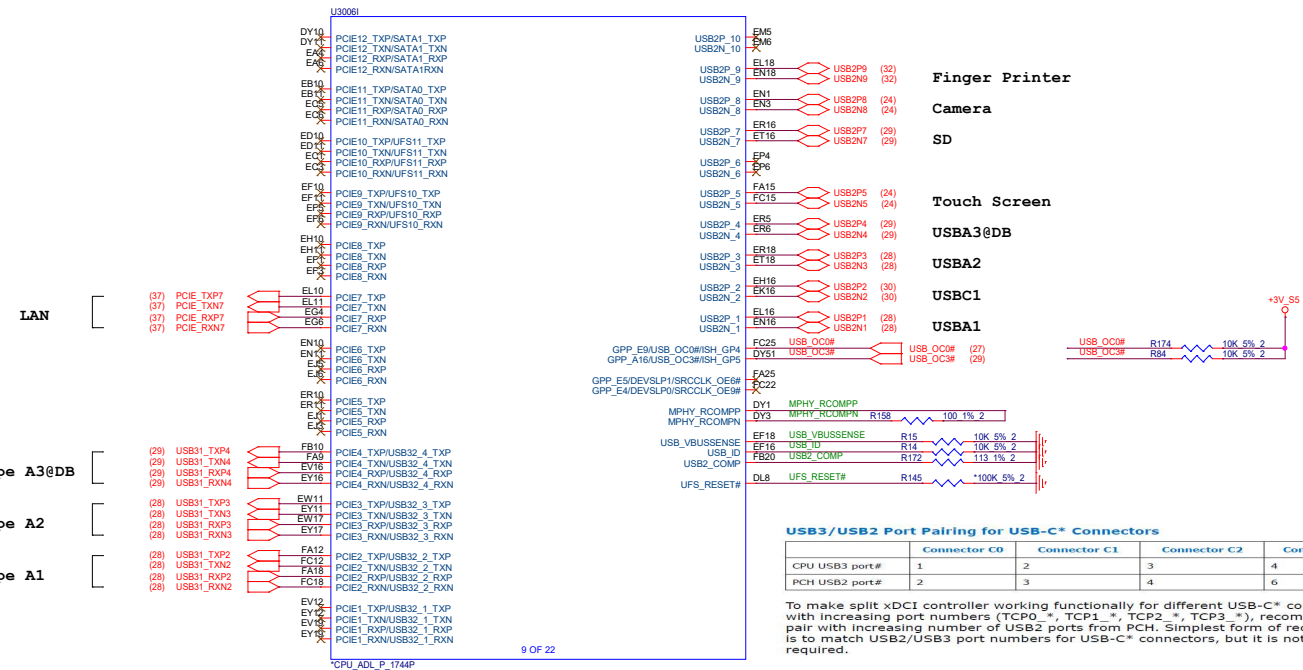




GPIO	Usage	Sampled	PU/PD	Strap
GPP_B14	<b>TOP SWAP</b> 1: Enable 0: Disable (Default)	PCH_PWROK	20K PD (INT)	
GPP_B18	<b>NO Reboot</b> 1: Enable 0: Disable (Default)	PCH_PWROK	20K PD (INT)	
GPP_C2	<b>TLS CONFIDENTIALITY</b> 1: Enable 0: Disable (Default)	RSMRST#	20K PD (INT)	
GPP_C5 (0) GPP_H0 (1) GPP_H1 (2) GPP_H2 (3)	<b>Boot Configuration</b> 0000:BIOS/CSME on SPI, eSPI enable 0010:BIOS/CSME on SPI, eSPI disable 0100:BIOS/CSME on eSPI 1100:BIOS on eSPI, CSME on SPI	RSMRST#	20K PD (INT) 20K PD (INT) 20K PD (INT) 20K PD (INT)	
SPIO_MOSI	<b>Reserved</b>	RSMRST#	4.7K PU@EDS	
GPP_D10	<b>DDP3 I2C Power Configuration</b> 1: DDP3 I2C/TBT_LSX2=3.3V 0: DDP3 I2C/TBT_LSX2=1.8V	RSMRST#	20K PD (INT)	
GPP_D12	<b>DDP4 I2C Power Configuration</b> 1: DDP4 I2C/TBT_LSX3=3.3V 0: DDP4 I2C/TBT_LSX3=1.8V	RSMRST#	20K PD (INT)	
GPP_B23	<b>CPUNSSC Clock Frequency</b> 1: 19.2MHz 0: 38.4MHz (Default)	RSMRST#	20K PD (INT)	
SPIO_IO2	<b>Reserved</b>	RSMRST#	100K PU@3.3V (EXT) 75K PU@1.8V (EXT)	
SPIO_IO3	<b>Reserved</b>	RSMRST#	100K PU@3.3V (EXT) 75K PU@1.8V (EXT)	
GPP_R2	<b>Flash Security Override</b> 1: Disable 0: Enable (Default)	PCH_PWROK	20K PD (INT)	
GPP_E6	<b>Reserved</b>	RSMRST#	100K PU@3.3V (EXT) 75K PU@1.8V (EXT)	
GPP_E19	<b>DDP1 I2C Power Configuration</b> 1: DDP1 I2C/TBT_LSX0=3.3V 0: DDP1 I2C/TBT_LSX0=1.8V	RSMRST#	20K PD (INT)	
GPP_E21	<b>DDP2 I2C Power Configuration</b> 1: DDP2 I2C/TBT_LSX1=3.3V 0: DDP2 I2C/TBT_LSX1=1.8V	RSMRST#	20K PD (INT)	
DBG_PMODE	<b>Reserved</b>	RSMRST#	20K PU (INT)	
GPD7	<b>Reserved</b>	DSW_PWROK	20K PD (INT)	
GPP_F0	<b>X'tal Frequency Selection</b> 1: 24MHz 0: 38.4MHz (Default)	RSMRST#	20K PD (INT)	
GPP_F2	<b>M2 CNVi Mode Select</b> 1: Integrated CNVi Disable 0: Integrated CNVi Enable	RSMRST#	Note: Intel WiFi module +PU down 1K ohm Platform is Pull high 100K ohm Weak PU (EXT)	
GPP_F7	<b>Reserved</b>	RSMRST#	20K PD (INT)	
GPP_F10	<b>Reserved</b>	RSMRST#	20K PD (INT)	
SPIVCCIOSEL	<b>SPI Operation Voltage</b> 1: SPI Voltage =1.8V 0: SPI Voltage =3.3V	DSW_PWROK	4.7K PU@DSW_PWROK (EXT) 4.7K PD@GND (EXT)	

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		<b>Quanta Computer Inc.</b> PROJECT : TRA	
		Size: _____ Document Number: <b>ADL-P 9/14 (HW STRAP)</b> Date: Wednesday, February 01, 2023	Rev: 1A Sheet: 12 of 50



**USB3/USB2 Port Pairing for USB-C\* Connectors**

	Connector C0	Connector C1	Connector C2	Connector C3
CPU USB3 port#	1	2	3	4
PCH USB2 port#	2	3	4	6

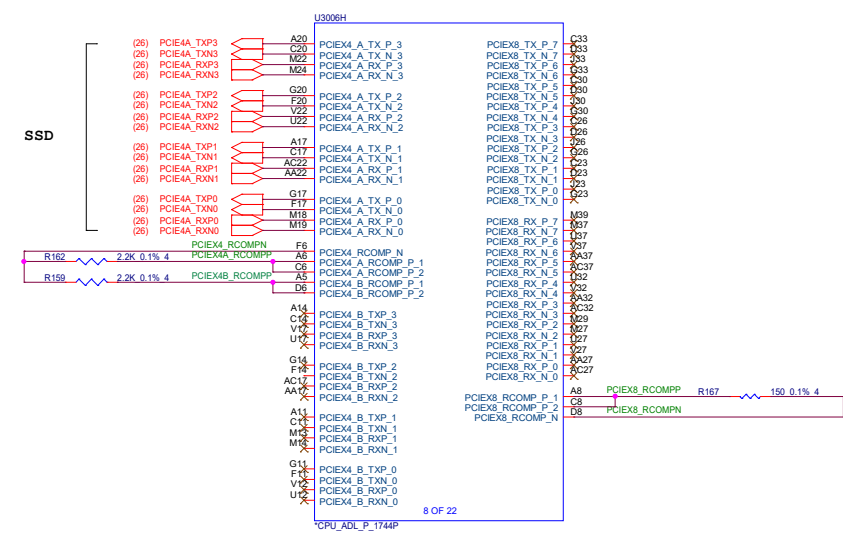
To make split xDCI controller working functionally for different USB-C\* connectors with increasing port numbers (TCP0\_\*, TCP1\_\*, TCP2\_\*, TCP3\_\*), recommended to pair with increasing number of USB2 ports from PCH. Simplest form of requirement is to match USB2/USB3 port numbers for USB-C\* connectors, but it is not strictly required.

**USB3.0 Port Mapping Table**

USB3.0	Function
PORT-1	Un-used
PORT-2	USB3.1 GEN1 Type A1
PORT-3	USB3.1 GEN1 Type A2
PORT-4	USB3.1 GEN1 Type A3@DB

**PCI-E Port Mapping Table**

PCI-E Port	Function	CLK RQ Port	Function
Port1	Un-used	Port0	Un-used
Port2	USB	Port1	Un-used
Port3	USB	Port2	Un-used
Port4	USB	Port3	SSD
Port5	Un-used	Port4	Un-used
Port6	Un-used	Port5	Un-used
Port7	G_LAN	Port5	Un-used
Port8	Un-used		
Port9	Un-used		
Port10	Un-used		
Port11	Un-used		
Port12	Un-used		

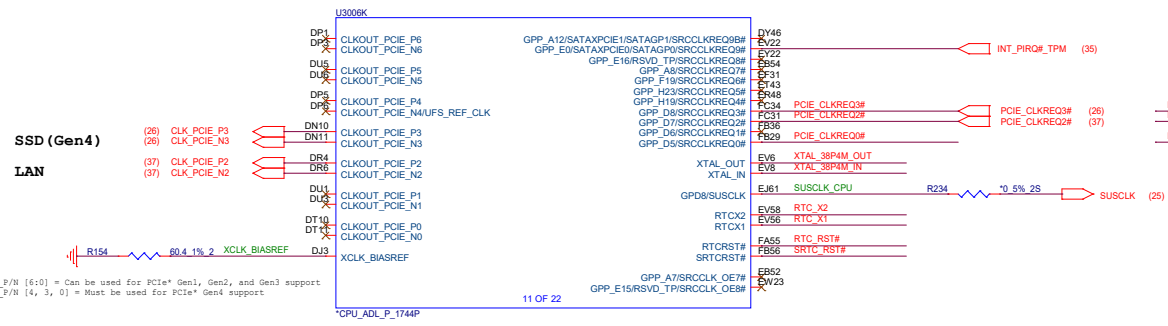
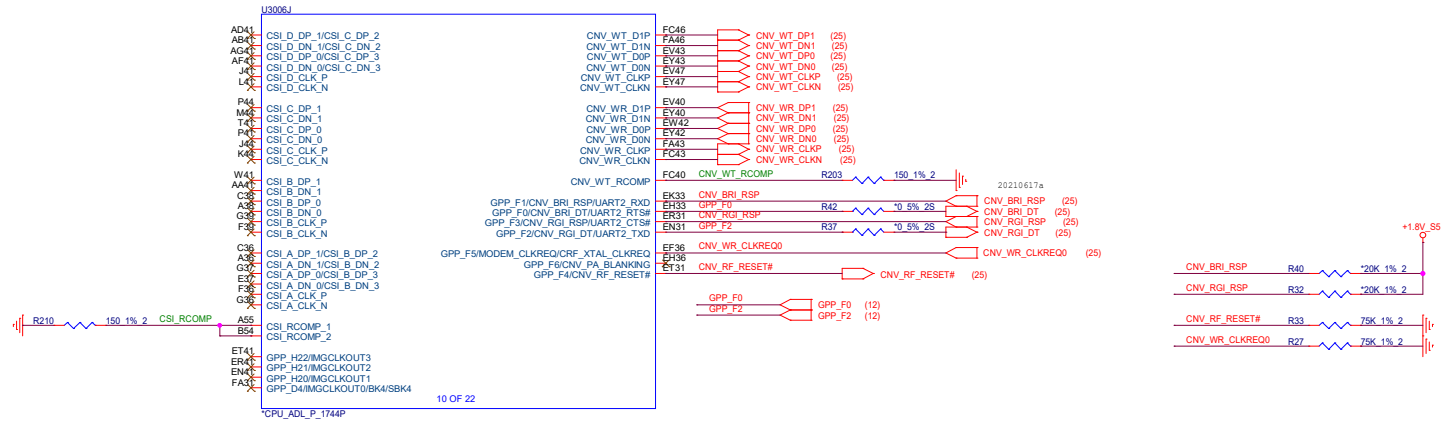


**USB2.0 Port Mapping Table**

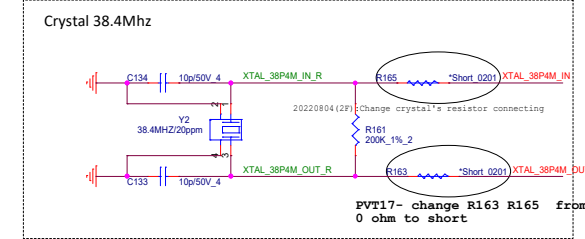
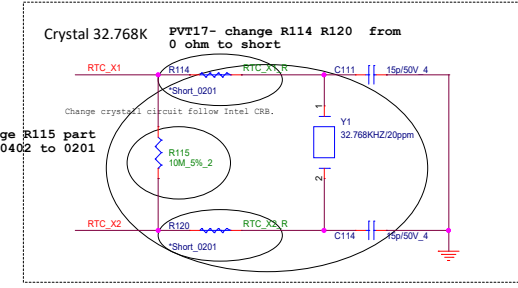
USB2.0	Function
PORT-1	USB A1
PORT-2	USBC
PORT-3	USB A2
PORT-4	USB A3@DB
PORT-5	Touch Screen
PORT-6	NC
PORT-7	SD
PORT-8	Camera
PORT-9	Finger Print
PORT-10	NC

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PROJECT : TRA

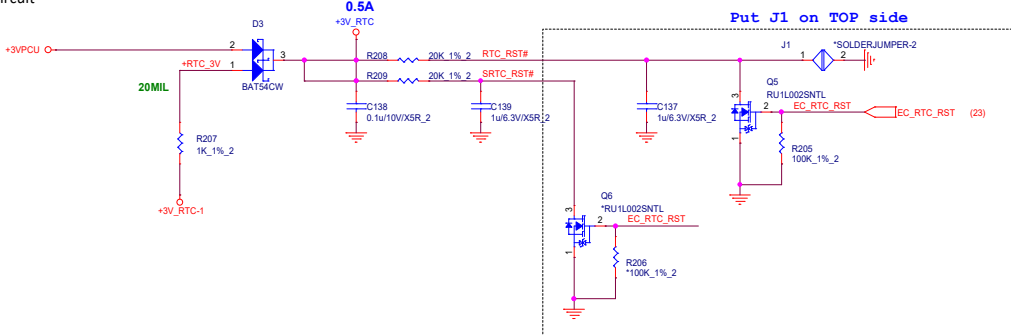
Size	Document Number	Rev 1A
	ADL-P 10/14(USB/PCIE/SAT)	
Date:	Wednesday, February 01, 2023	Sheet 13 of 50



Crystal Components with Surrounding 10 mil Wide GND Shield Trace Break Out:4-10 mil Wide GND Shield Trace



RTC Circuit



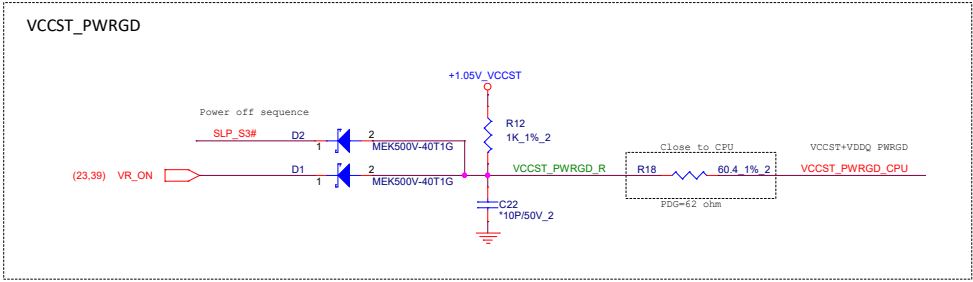
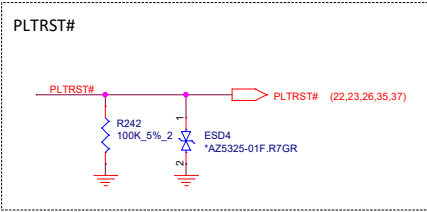
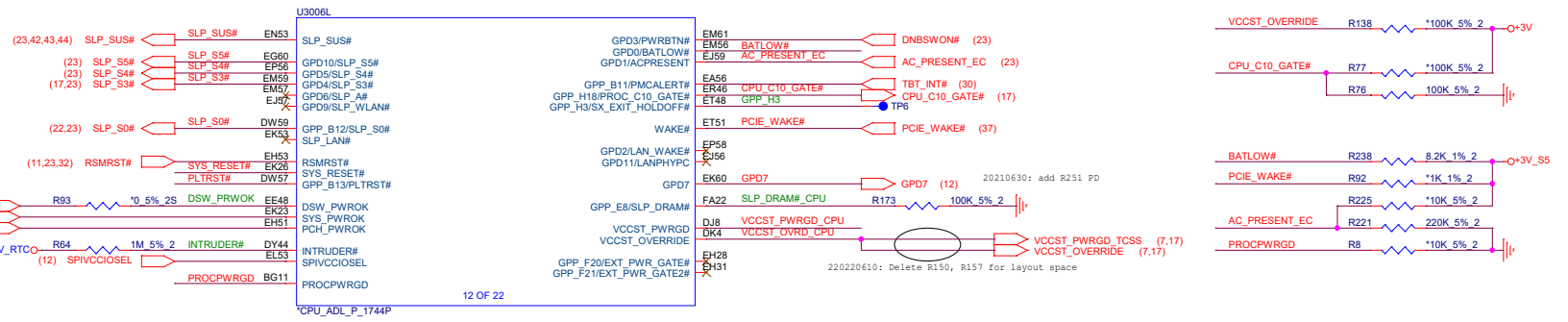
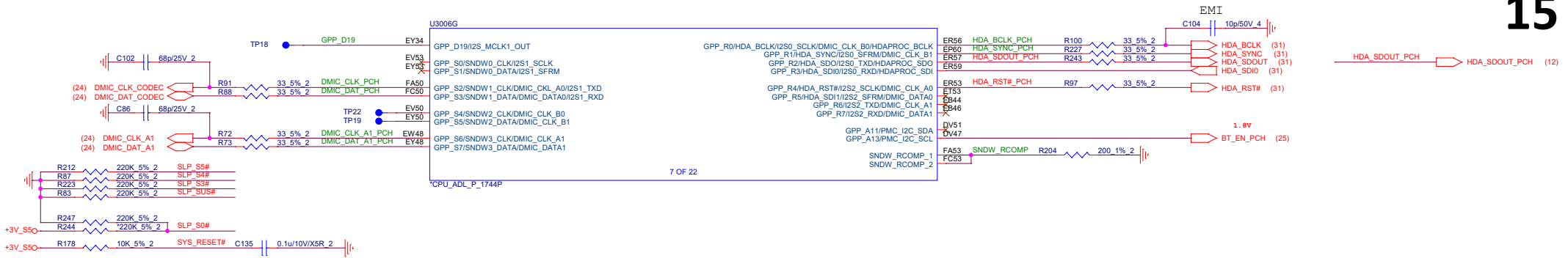
CLKOUT\_PCIE\_P/N [6:0] = Can be used for PCIe\* Gen1, Gen2, and Gen3 support  
 CLKOUT\_PCIE\_N/M [4: 3, 0] = Must be used for PCIe\* Gen3 support

20220804a

**Quanta Computer Inc.**

PROJECT : TRA

Size	Document Number	Rev
	ADL-P 11/14(CSIVCN/CLK)	2F
Date:	Wednesday, February 01, 2023	Sheet 14 of 50



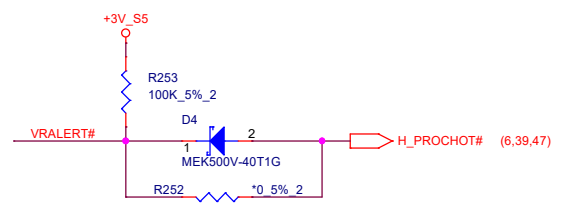
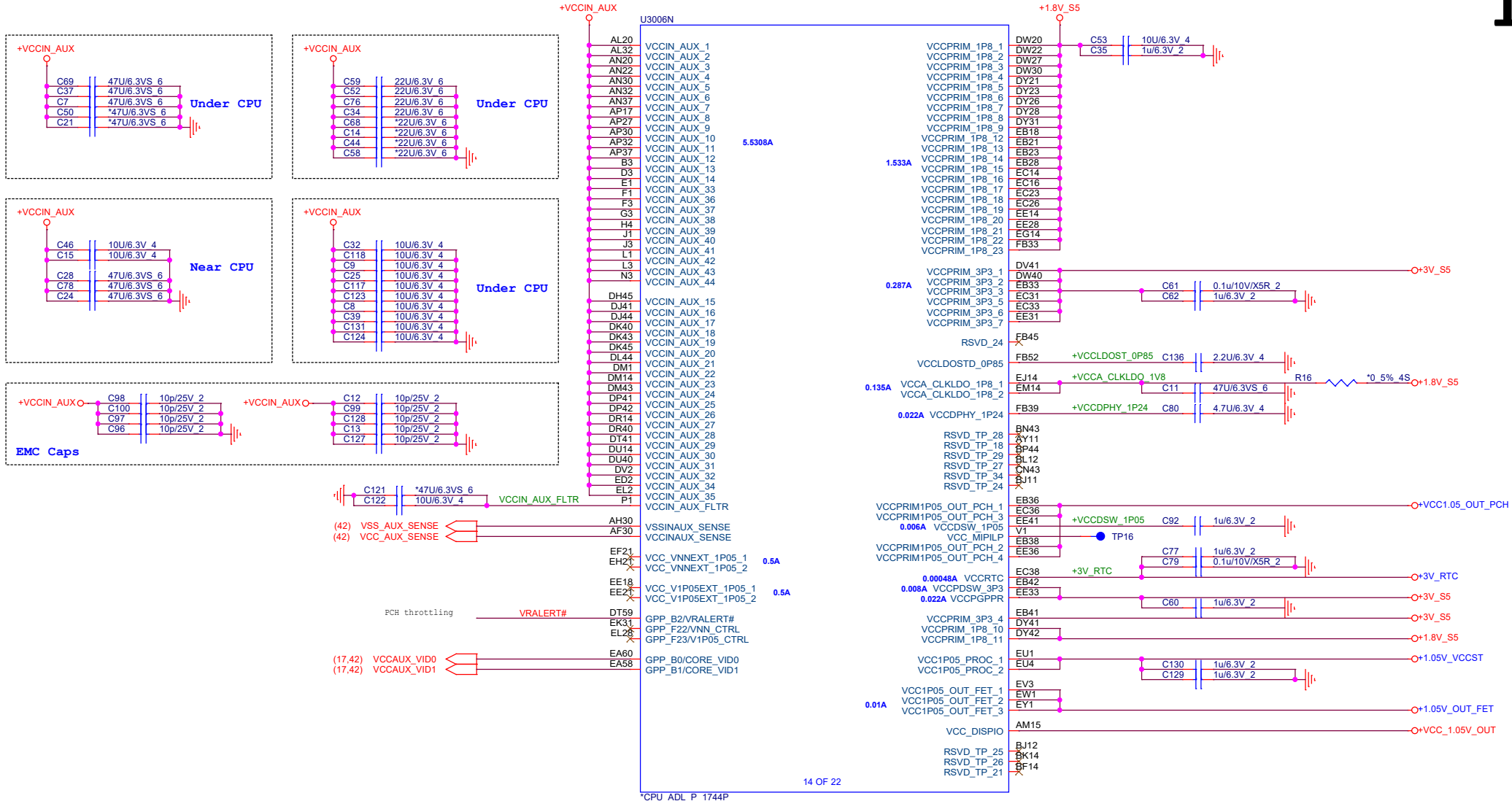
20220610a

**Quanta Computer Inc.**  
 PROJECT : TRA  
**ADL-P 12/14(PM/HDA/SD3.0)**  
 Date: Wednesday, February 01, 2023 Sheet 15 of 50

Size	Document Number	Rev
		2A

This part should not contain any substances which are specified in EM-S303.

5.182A + Adder(0.0724x2+0.102x2)=5.5308A



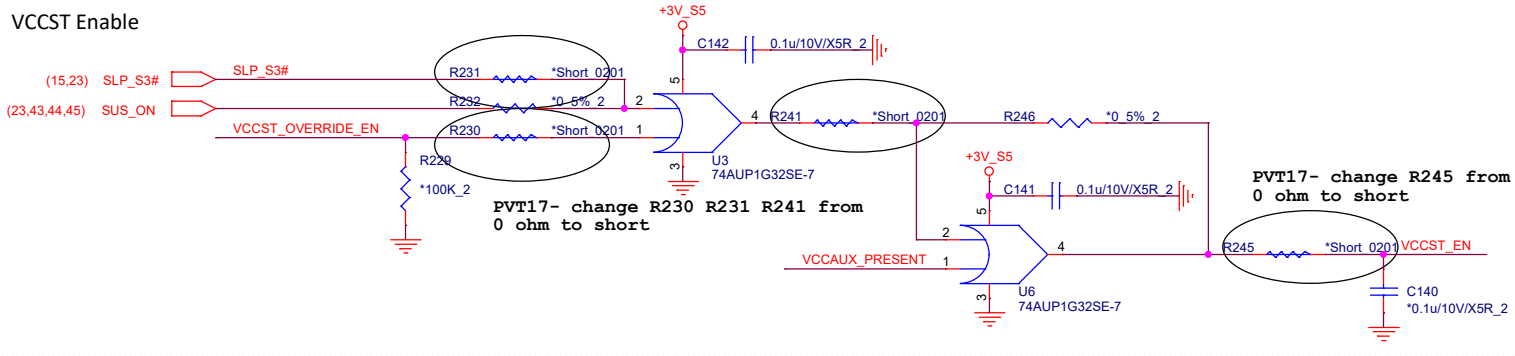
20220216d

**Quanta Computer Inc.**  
PROJECT : TRA

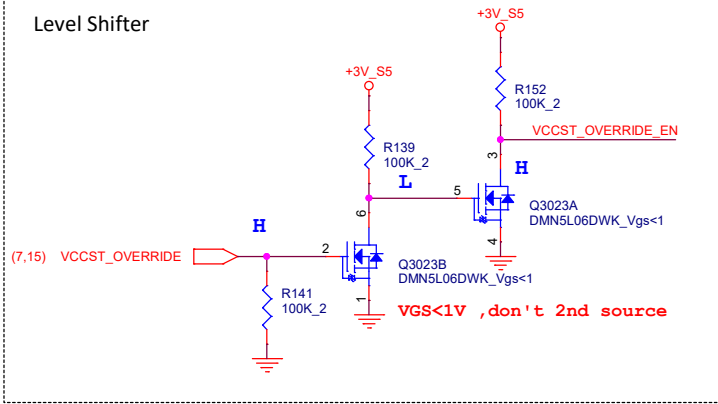
Size	Document Number	Rev
	<b>ADL-P 13/14(PCH POWER)</b>	1A
Date:	Wednesday, February 01, 2023	Sheet 16 of 50

This part should not contain any substances which are specified in EM-5303.

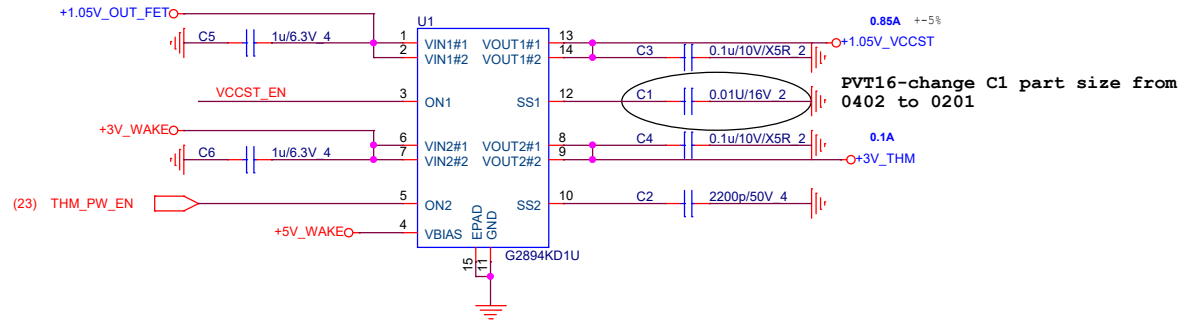
### VCCST Enable



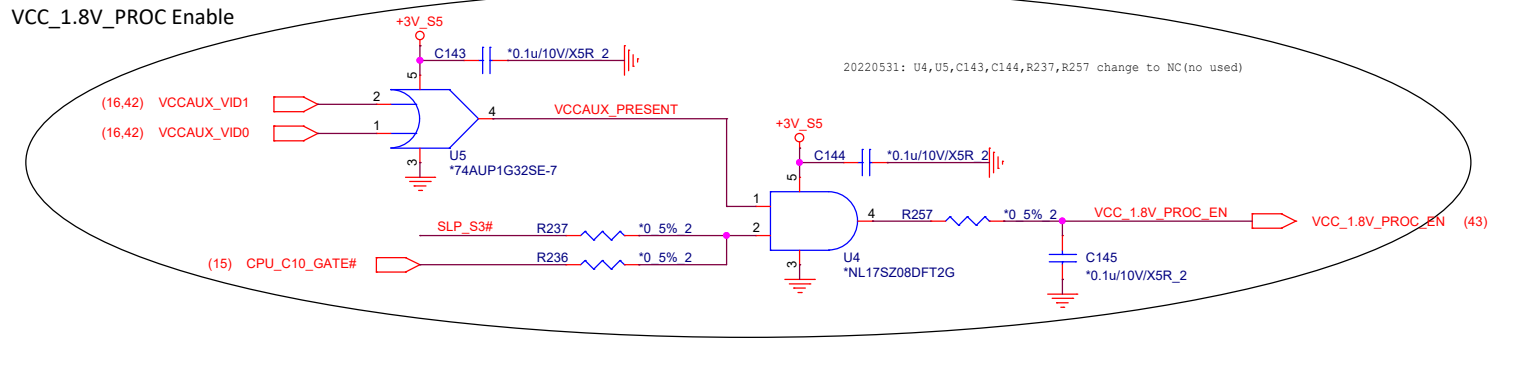
### Level Shifter



Source from PCH =+VCC1P05\_OUT\_FET



### VCC\_1.8V\_PROC Enable

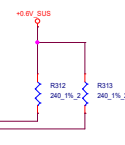
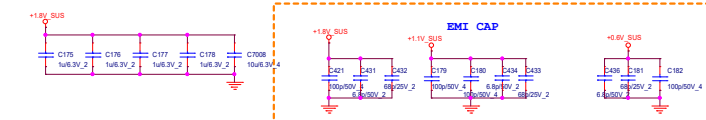
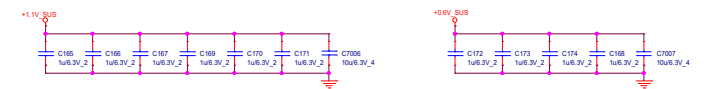
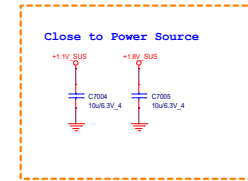
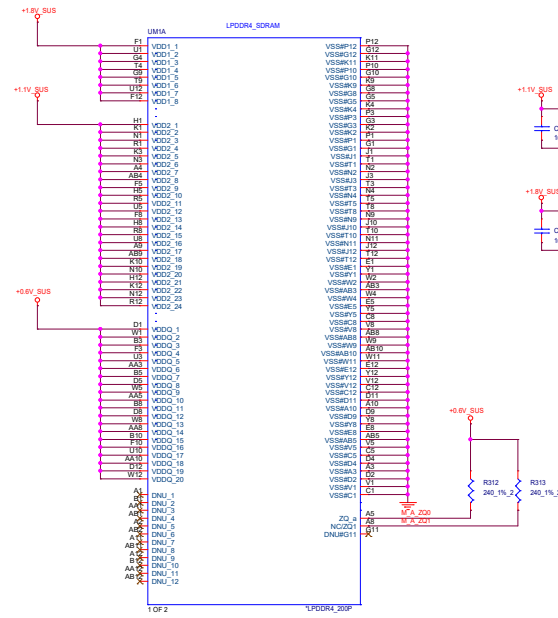
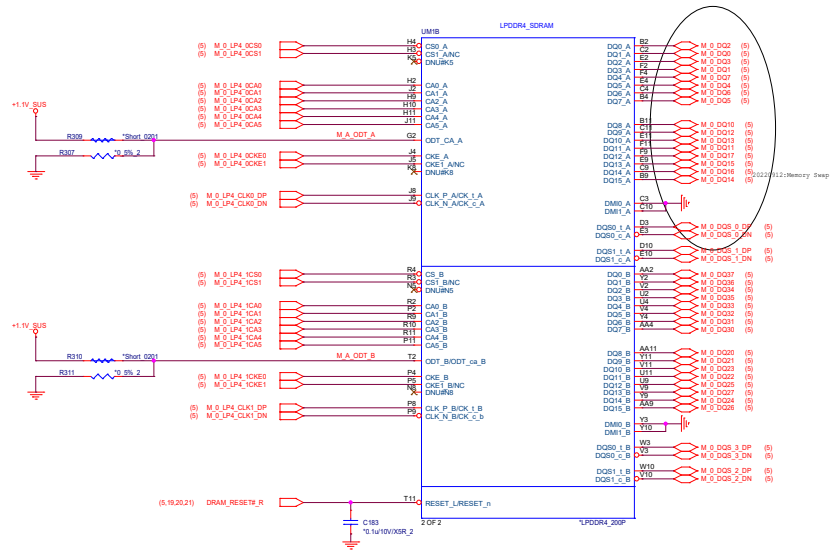


20220531a

		<b>Quanta Computer Inc.</b> <b>PROJECT : TRA</b>	
		Size Document Number <b>ADL-P VCCST/VCC1.8_PROC</b>	Rev <b>2A</b>
Date: Wednesday, February 01, 2023		Sheet 17 of 50	

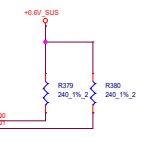
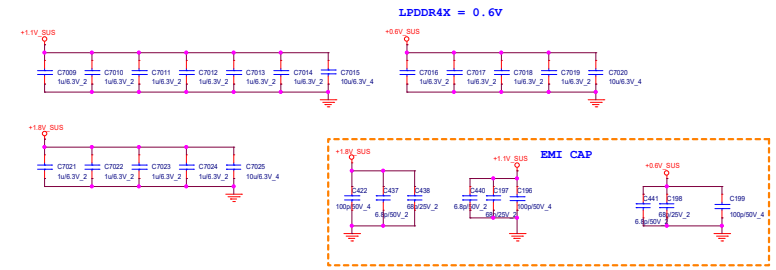
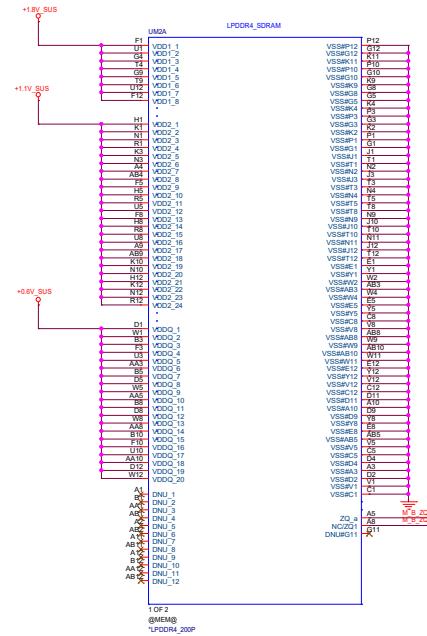
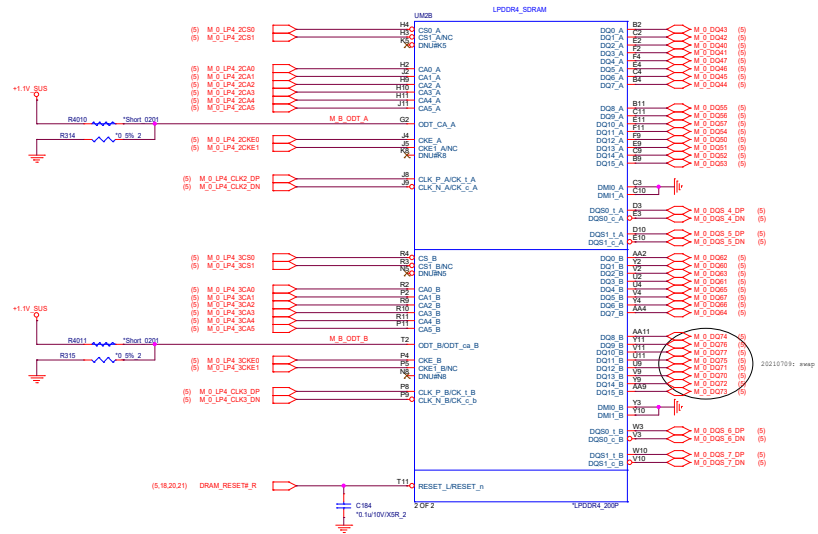
This part should not contain any substances which are specified in EM-S303.

### Non-NB Footprint:bga200-hynix-h9hcnnnbkmalhr-0\_5s LPDDR4 CH-A



# Non-NB Footprint:bga200-hynix-h9hcnnnbkmalhr-0\_5s

## LPDDR4 CH-B



20210709b

Quanta Computer Inc.  
PROJECT : KANU

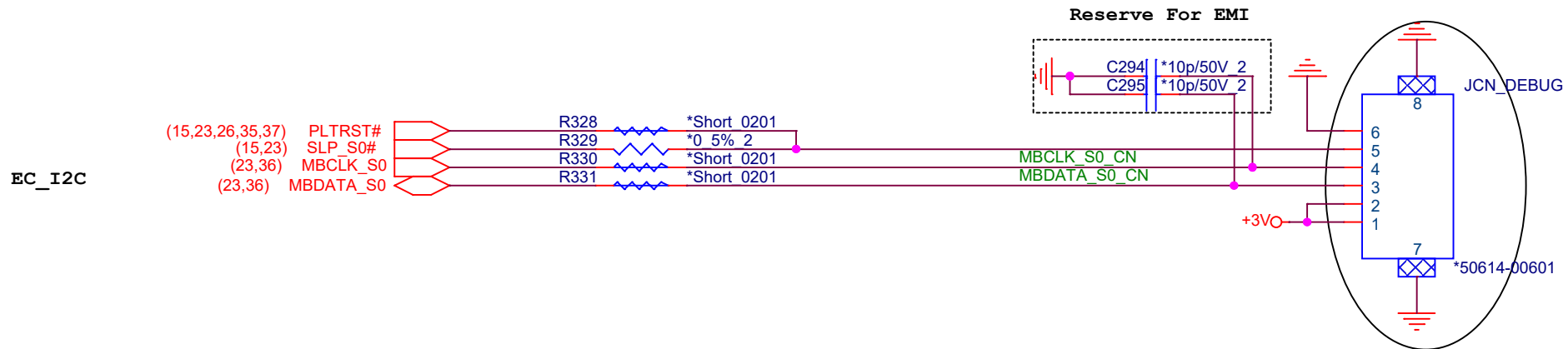
Size	Document Number	Rev
	MEMORY_B_LPDDR4	1A
Date	Wednesday, February 20, 2021	Sheet 19 of 30

This part should not contain any substances which are specified in DM-0101.



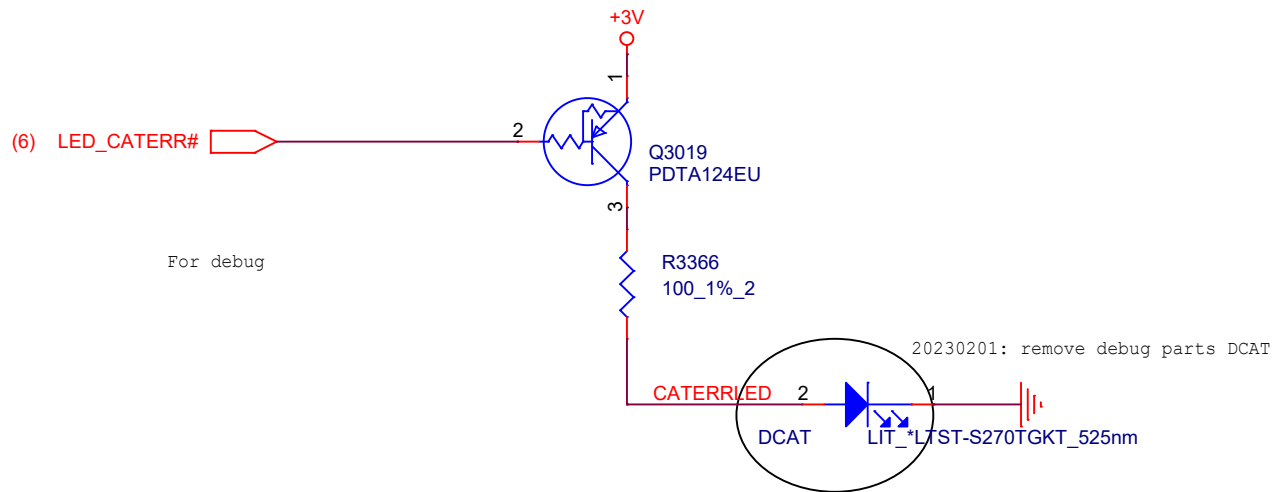







20230201: remove debug parts JCN\_DEBUG

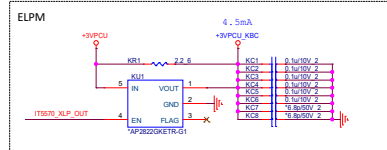
## CATERR LED



20220303b

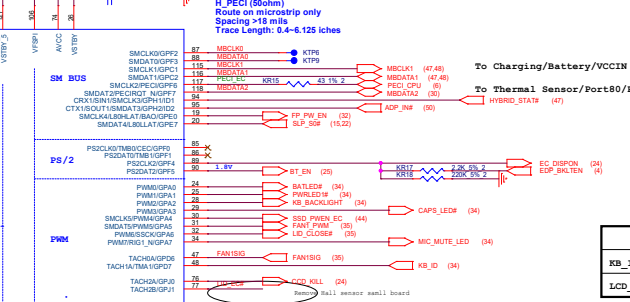
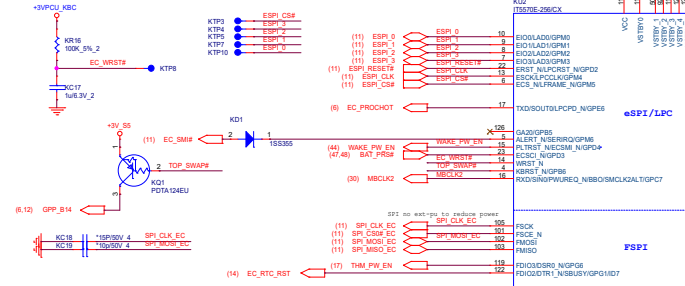
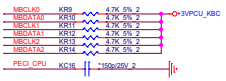
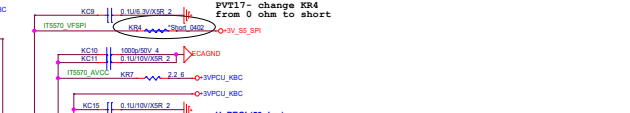
 <b>Quanta Computer Inc.</b> <b>PROJECT : TRA</b>		Rev
		1A
Size	Document Number	
<b>Debug</b>		
Date:	Wednesday, February 01, 2023	Sheet 22 of 50

This part should not contain any substances which are specified in EM-S303.

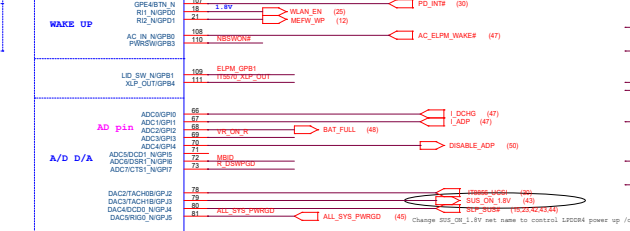
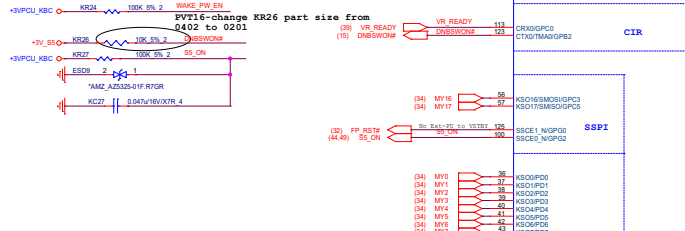
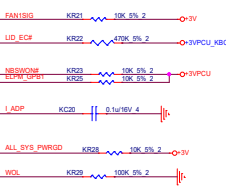


	TRA	TRA	TRA	TRA	TBD	FBD
	EVT	DVT	DVT15	DVT2	PVT1	FVT2
MB1D	KR3	X	220K	82K	220K	150K
	KR2	100K	82K	X	47K	133K
						180K

20221103: 3B Update MB ID(052/053) for PVT1 stage  
20221101: 3B Update MB ID(052/053) for PVT2 stage



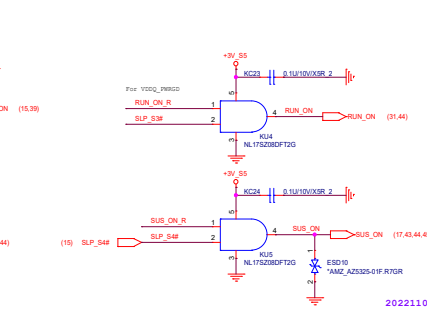
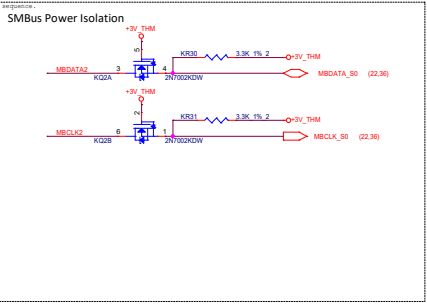
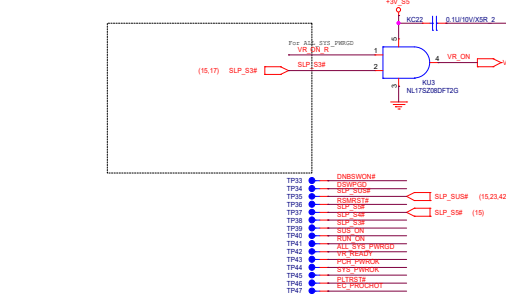
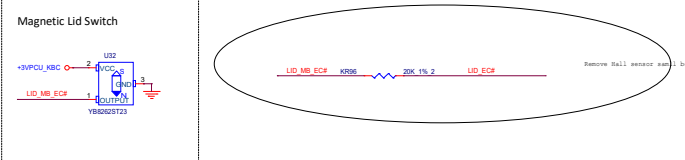
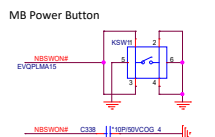
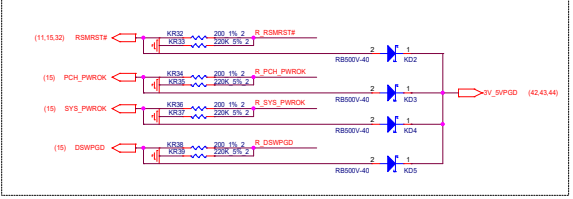
	13"	14"	16"
KB_ID	1	1	0
LCD_ID	0	1	0



	H	L
FP_PWR_NIFY	S4/MS	S4/S5

	H	L
SIM Card	Absence	Present
UIM1_DETECT#		

	H	L
FP_BTN_IGN	Ignore	Enable
	NBSWON#	NBSWON#

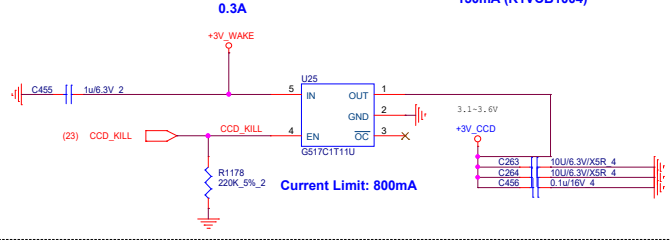


20221103a

Quanta Computer Inc.  
PROJECT : TRA  
EC (IT5570E-256/CX)

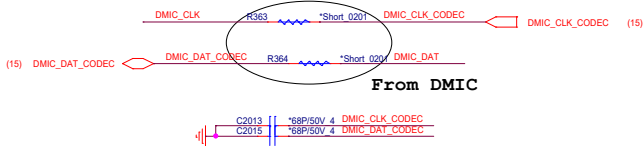
Camera Power

MAX Current: 200mA (R1VCB1003)  
150mA (R1VCB1004)



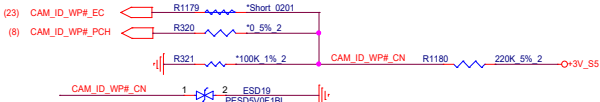
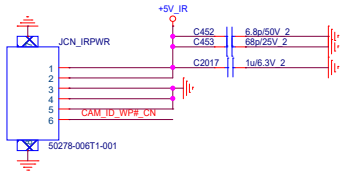
PVT17- change R363 R364 from 0 ohm to short

From PCH



From DMIC

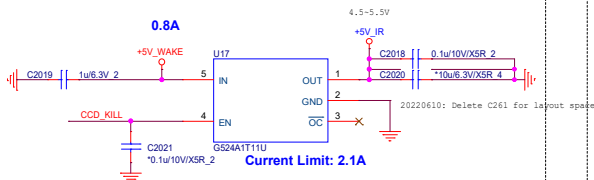
For Hello Camera



Host GPIO Direction	Host GPIO Value	Connected Camera	Result
IN	LOW	Hello cam	Hello cam detected
IN	HIGH	HD cam	HD cam detected
OUT	LOW	Hello cam	Write protected
OUT	HIGH	Hello cam	Write enabled

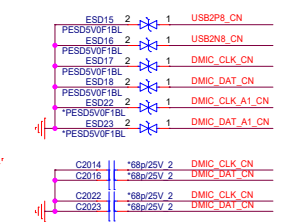
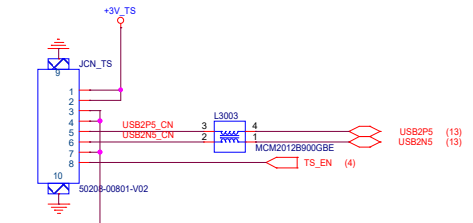
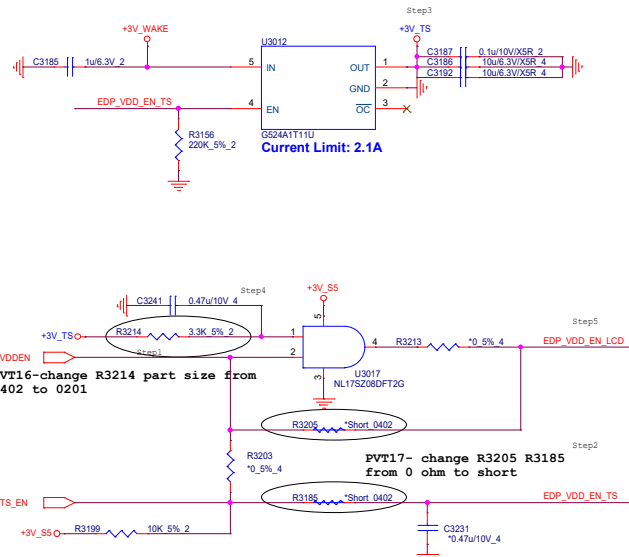
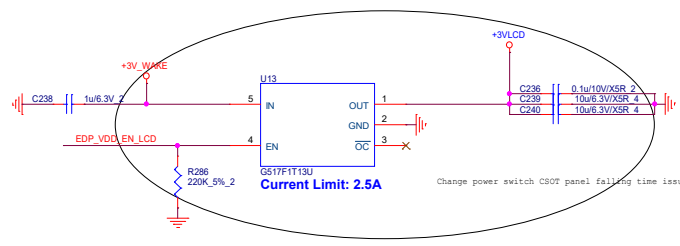
IR Camera (5V) Power

MAX Current: 740mA (R1VCB1004)

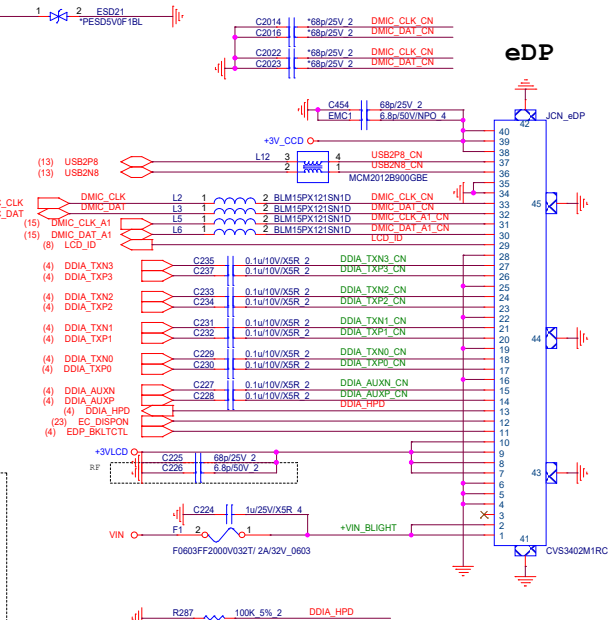


Panel Power

MAX Current: 483mA (for UHD)

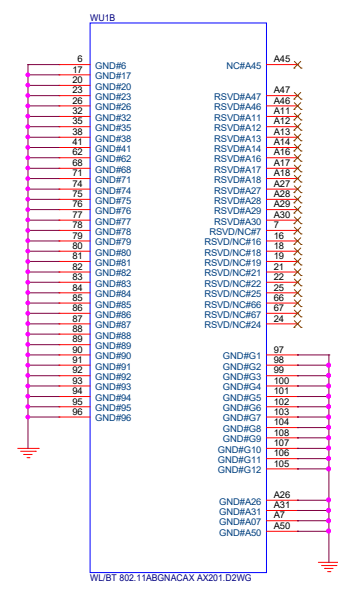
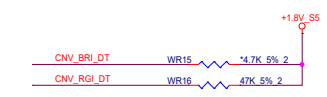
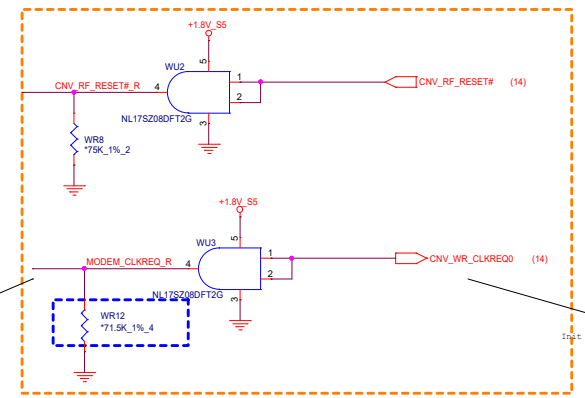
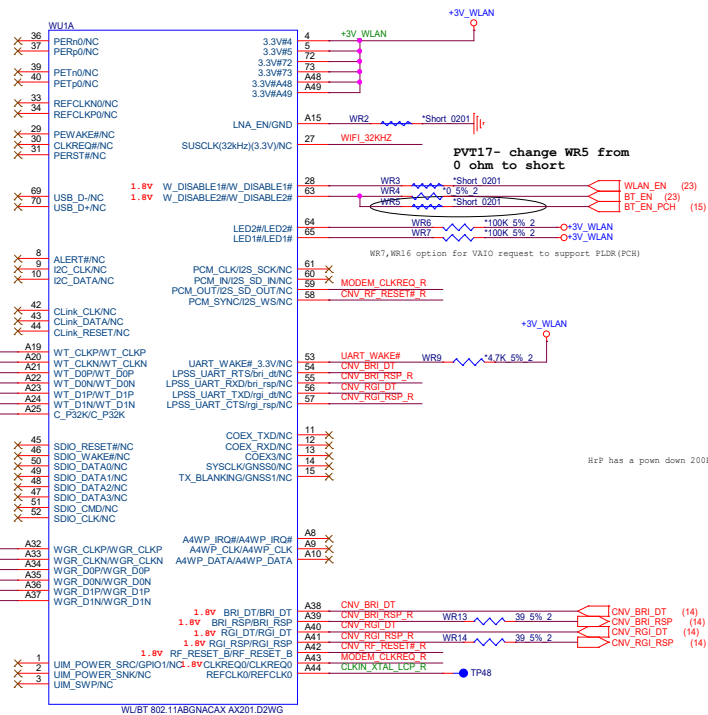
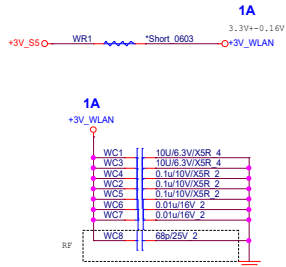


	13"	14"	16"
KB_ID	1	1	0
LCD_ID	0	1	0



Size	I/F	Vendor	Vendor FN	Quanta FN
14"	eDP	Sharp	LQ140M1JW61	AA140M1J002
14"	eDP	ADT	B140HAN04.0	AA140HAN080
16"	eDP	BOE	NV160WUM-N46	AA160WUM008
16"	eDP	ADT	B160UAN03.3	AA160UAN004
16"	eDP	CSOT	MNG007DA1-3	AA007DA1007

This part should not contain any substances which are specified in BM-9303.



HzP has a pown down 200Kohm

Inlet flow of the CNVI based modules for HzP

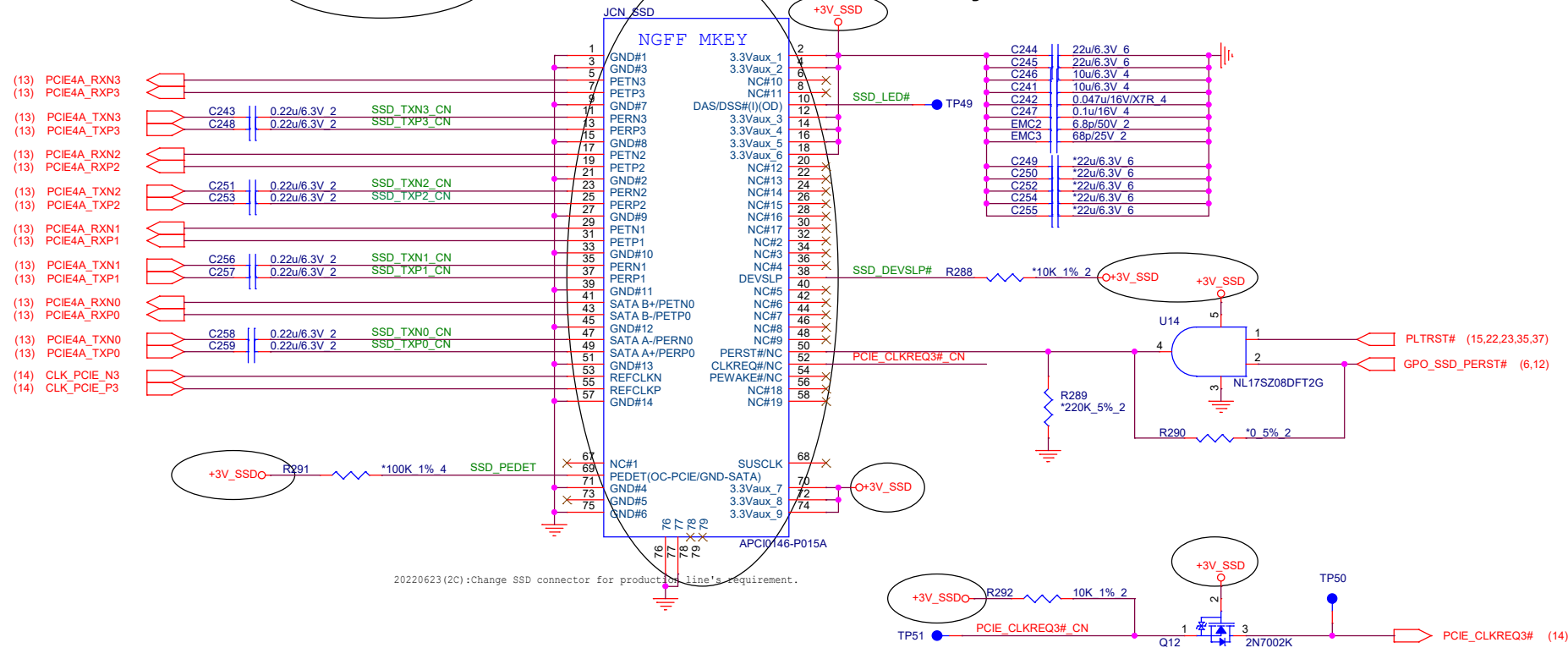
20220309a

Quanta Computer Inc.  
PROJECT : TRA

Size	Document Number	Rev
	WIFI/BT	1A
Date	Wednesday, February 01, 2023	Sheet 25 of 50

20220531: Remove J3002 for EVT test

Samsung 2TB PCIE SSD=2.25A  
 Samsung 1TB PCIE SSD=2.15A



Size	I/F	Module ME	Vendor	Vendor PN
128GB	PCIE3		Samsung	MZVLQ128HCHQ-00B07
256GB	PCIE3		Samsung	MZVLQ256HBJD-00B07
512GB	PCIE3		Samsung	MZVLQ512HBLU-00B07
256GB	PCIE4		Samsung	MZVL2256HCHQ-00B07
512GB	PCIE4		Samsung	MZVL2512HCJQ-00B07

20220623a

**Quanta Computer Inc.**  
 PROJECT : TRA

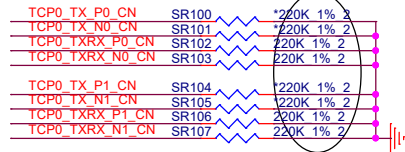
Size	Document Number	Rev
	SSD	2C
Date:	Wednesday, February 01, 2023	Sheet 26 of 50

This part should not contain any substances which are specified in EM-S303.

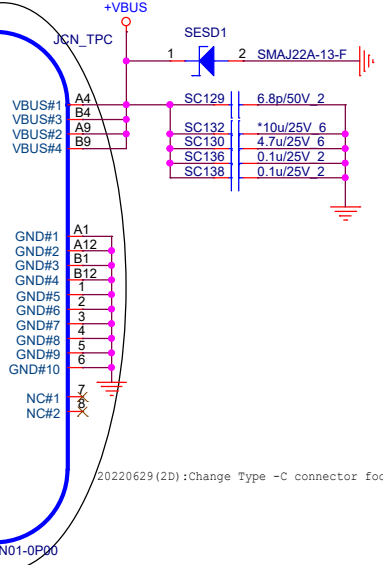
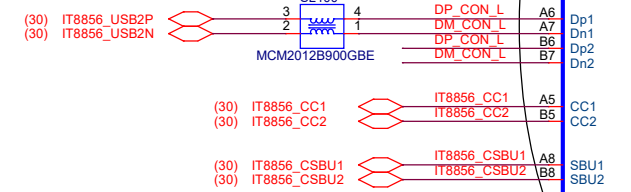
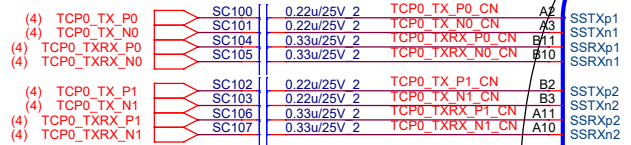
# USB Type-C

20220531: remove SR100, SR101,SR104,SR105 for SI

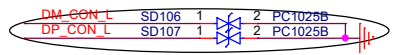
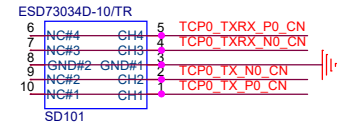
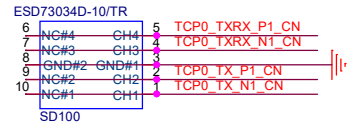
# VBUS : 5V



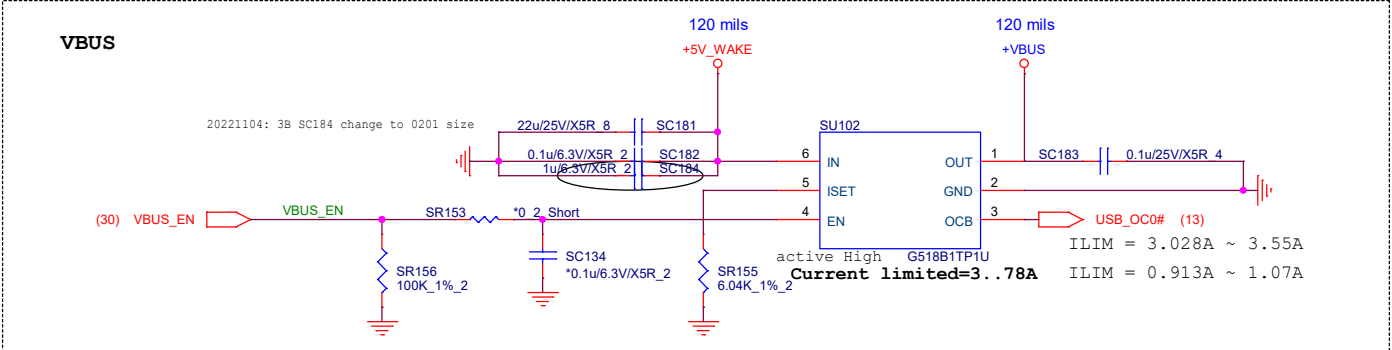
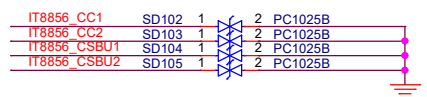
USB3.2 10Gps  
DP1.4a 8.1Gps



20220629(2D):Change Type -C connector footprint for SMT quality.



20220512: SD19 change to SD106/SD107 for Voltage issue



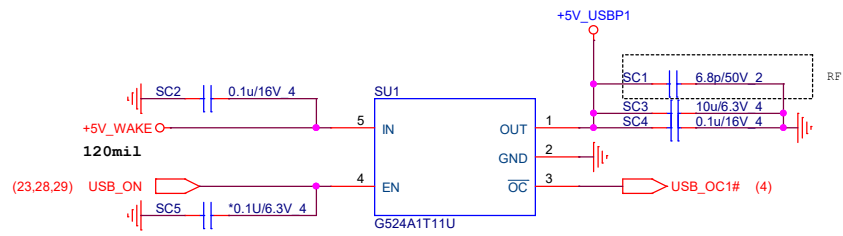
20221104a

**Quanta Computer Inc.**  
PROJECT : TRA

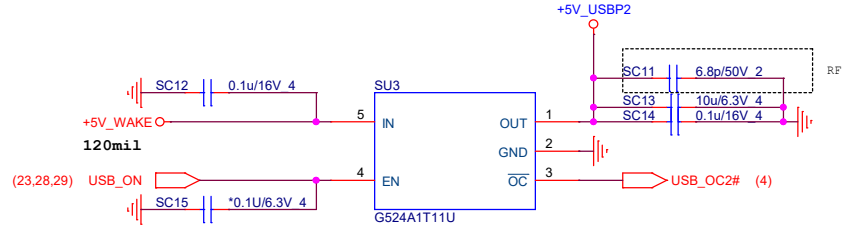
Size	Document Number	Rev
	<b>Type C MUX PS8802/CON</b>	3B
Date:	Wednesday, February 01, 2023	Sheet 27 of 50

This part should not contain any substances which are specified in EM-S303.

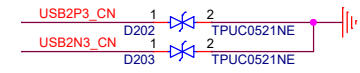
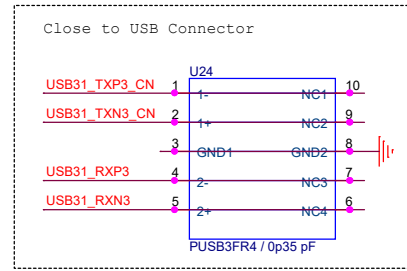
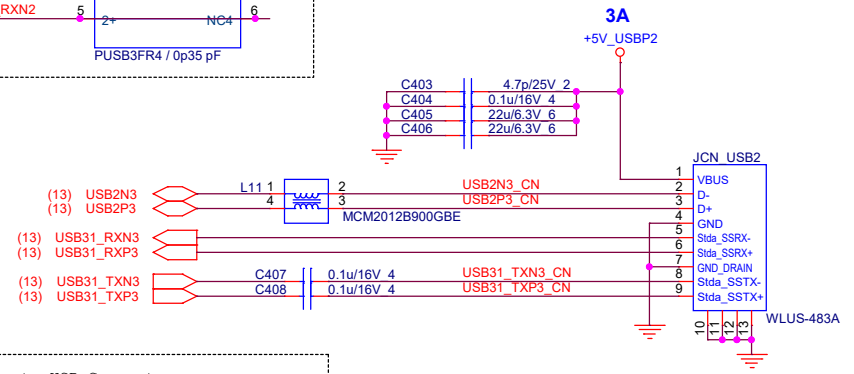
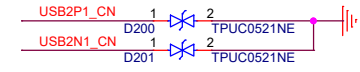
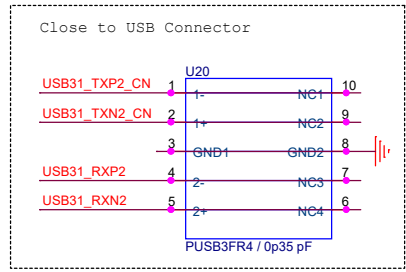
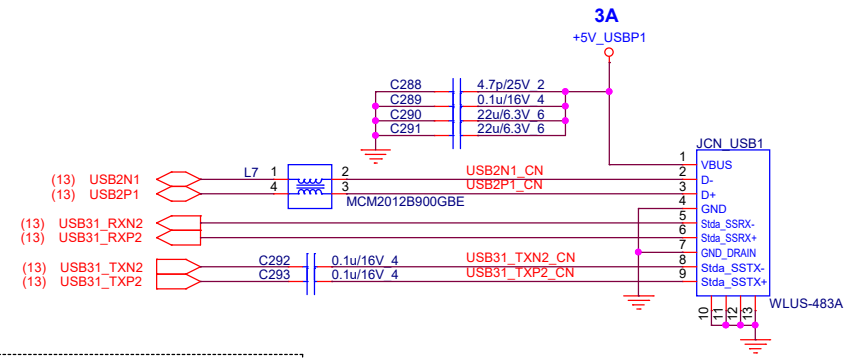




For VAIO Power Switch(Current Limit=2.1A)



For VAIO Power Switch(Current Limit=2.1A)



20220309a

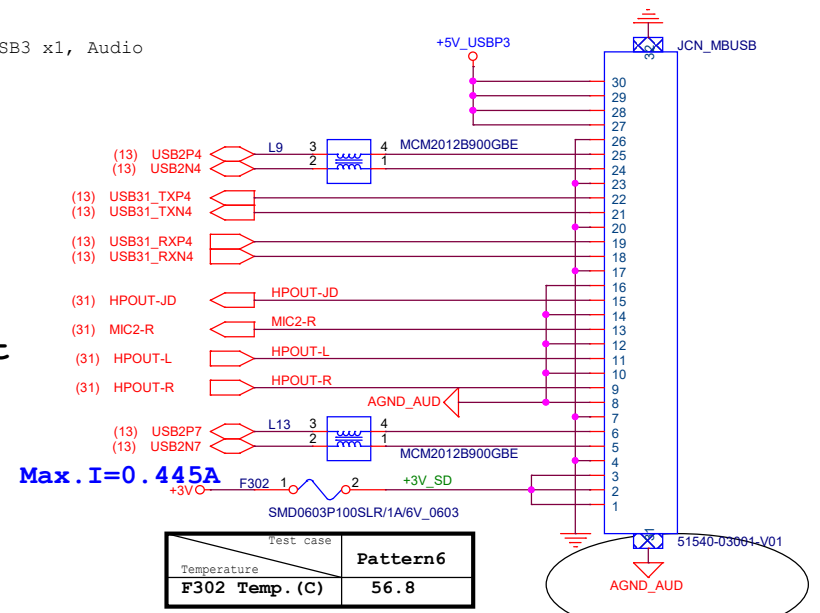
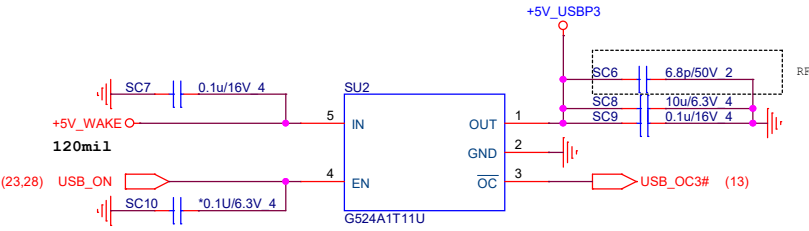
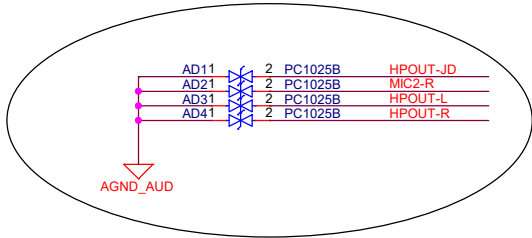
<p><b>Quanta Computer Inc.</b> PROJECT : TRA</p>		Rev
		1A
Size	Document Number	
<b>TYPE A USB3 Ports</b>		
Date:	Wednesday, February 01, 2023	Sheet 28 of 50

This part should not contain any substances which are specified in EM-S303.

Remove Hall sensor samll board

Micro SD, USB3 x1, Audio

Add TVS diode protect Audio codec.



Test case		Pattern6
Temperature	F302 Temp. (C)	56.8

Temperature	50C	60C
Fuse I- hold current (A)	0.74	0.65

change pin 31 of JCN\_MBUSB for Audio AGND\_AUD sharp.

20220304a

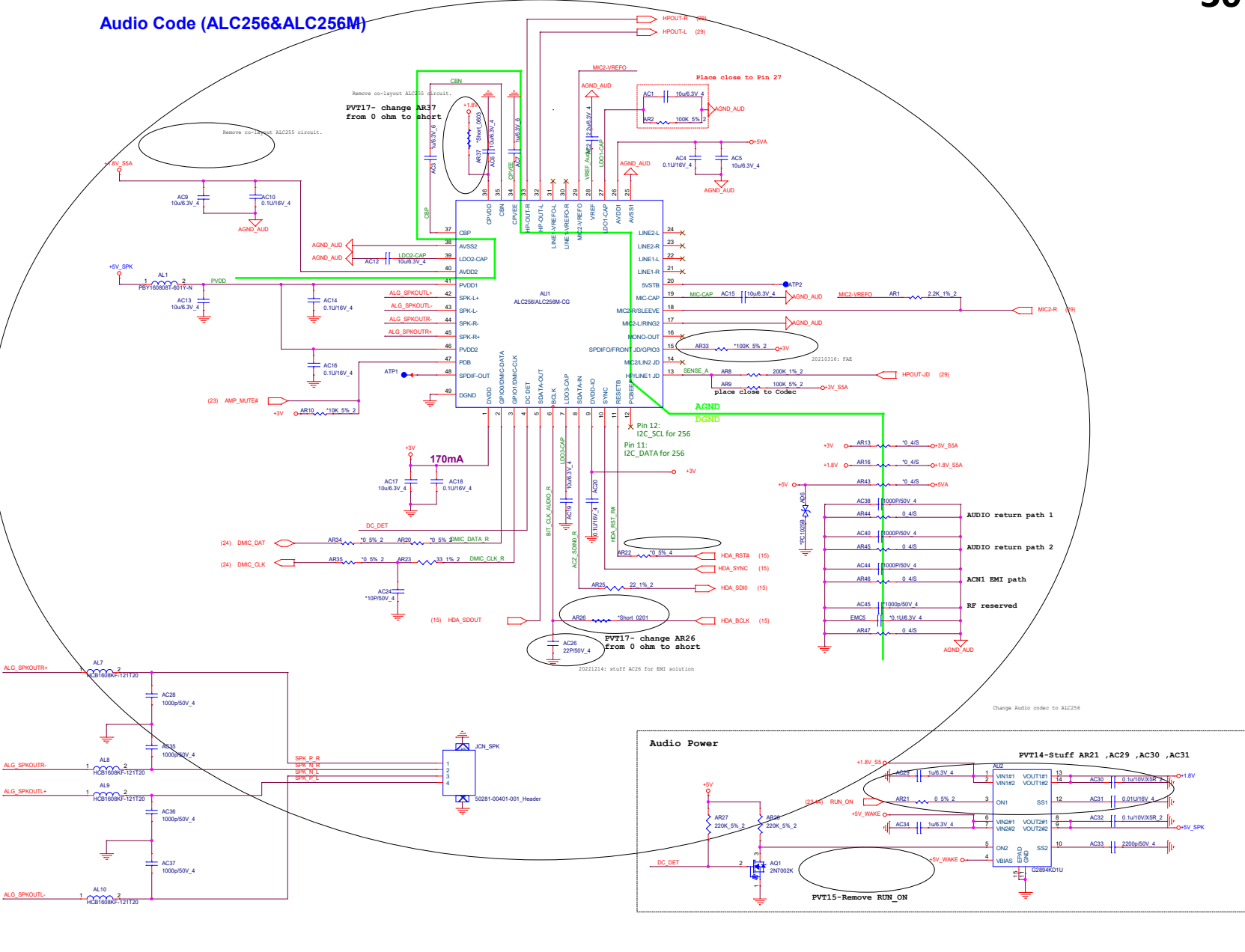
**Quanta Computer Inc.**  
PROJECT : TRA

Size	Document Number	Rev
	<b>MB to USB/SENSOR</b>	3A
Date:	Wednesday, February 01, 2023	Sheet 29 of 50

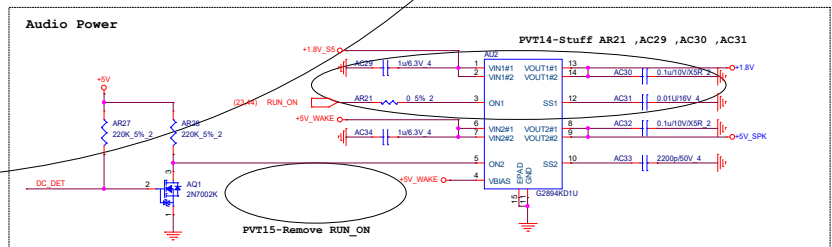
This part should not contain any substances which are specified in EM-S303.

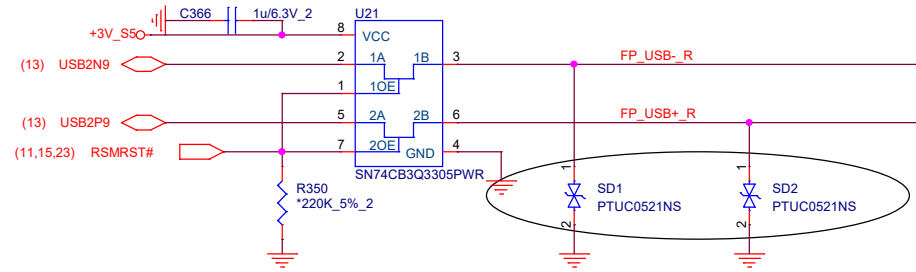
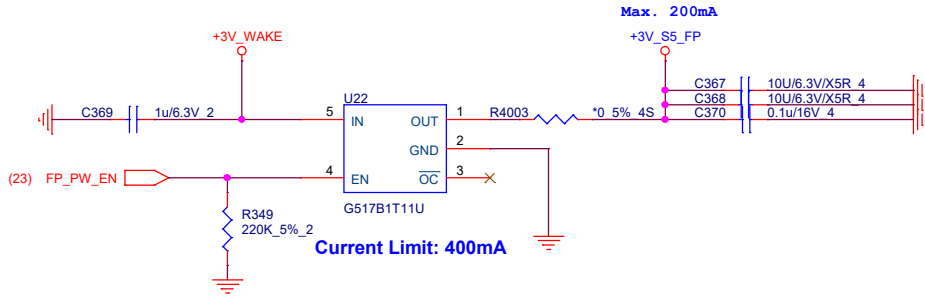


Audio Code (ALC256&ALC256M)



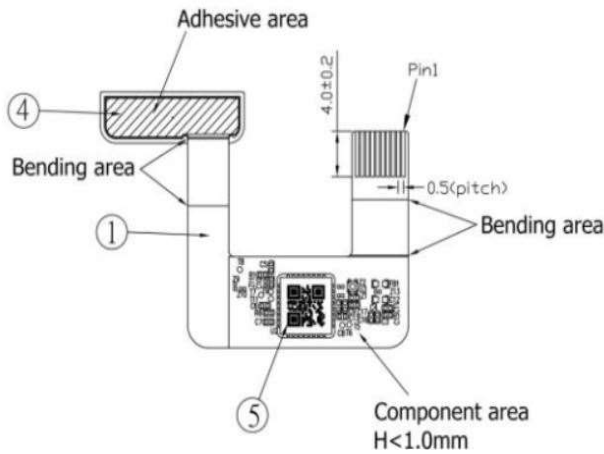
This part should not contain any substances which are specified in EN-6303.





20221129: add SD1 SD2 2nd source PTUC0521NS(BC0521NS200) / PESD5V0F1BSF (BC5V0F1B202)

Bottom view



2.2 USER INTERFACE

Pin Assignments

- Pin 1 = E\_GND
- Pin 2 = USB\_D+
- Pin 3 = USB\_D-
- Pin 4 = GND
- Pin 5 = EC\_STATE
- Pin 6 = EC\_CTRL
- Pin 7 = (NC)
- Pin 8 = RST\_N
- Pin 9 = FP\_PRS#
- Pin 10 = VBUS(3V3)

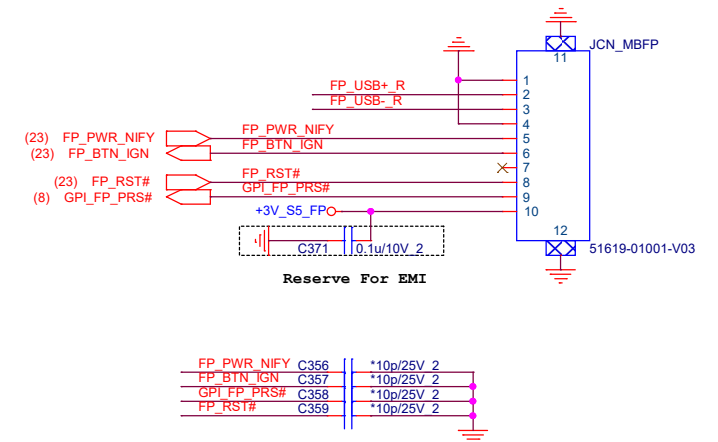
Pull-up & Pull-down Resistors

Symbol	Parameter	Minimum	Typical	Maximum	Unit
RPU	Pull- up resistor on RST_N input	34	-	100	kΩ
RPD	Pull-down resistor on TEST_CLK input	30	-	107	kΩ
RPDOTP	Pull-down resistor on VDDOTP	128	256	512	kΩ

FP_PRS# (FP presence pin)	
High	Non Fingerprint SKU
Low	Fingerprint SKU

MB Pull UP 100K , Fingerprint Module pull down 10K

Fingerprint Module

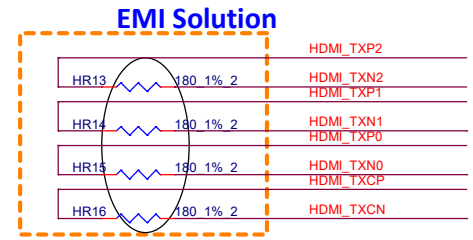
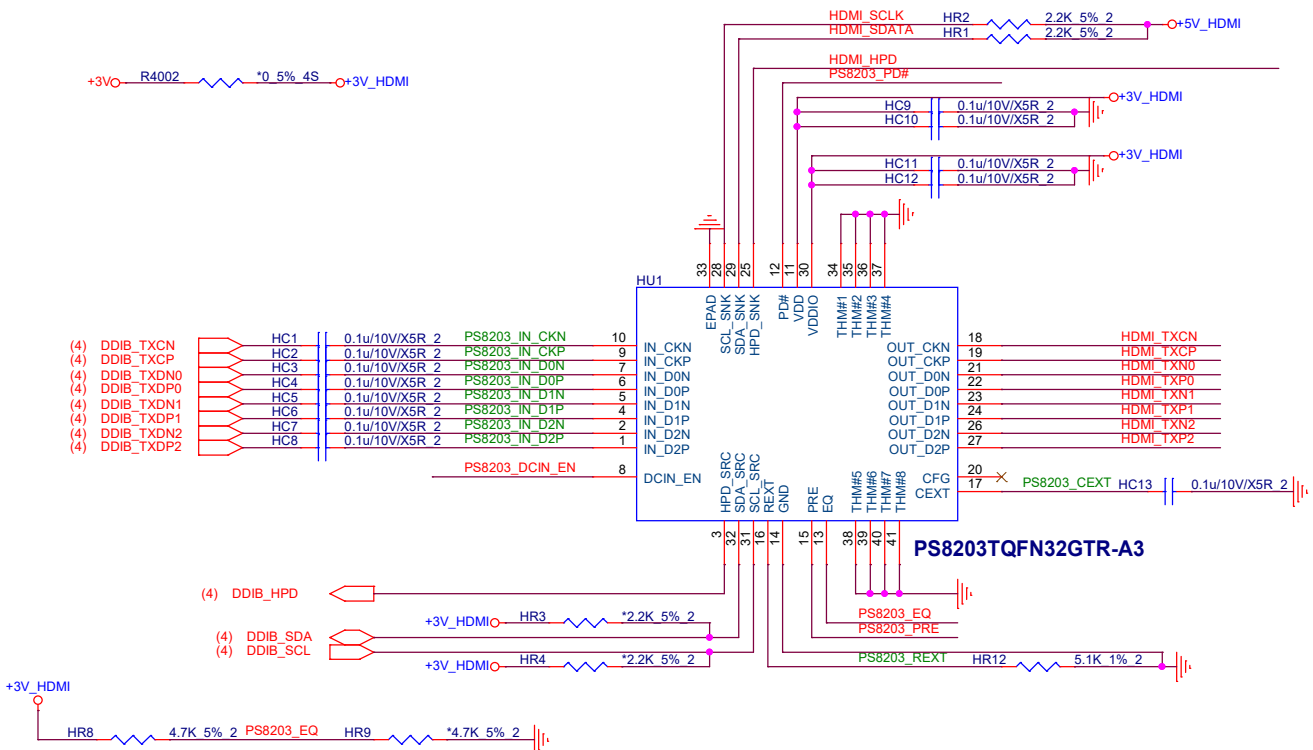


20220317a

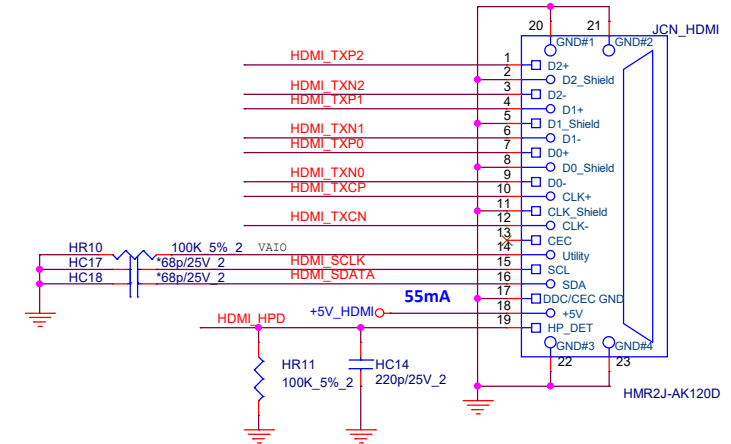
**Quanta Computer Inc.**  
PROJECT : TRA

Size	Document Number	Rev
	<b>MB to FP</b>	1A
Date:	Wednesday, February 01, 2023	Sheet 32 of 50

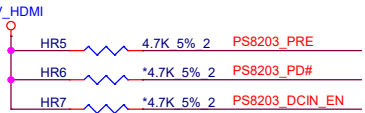
This part should not contain any substances which are specified in EM-S303.



20220602: HR13-HR16 change from 150 ohm to 180 ohm for SI



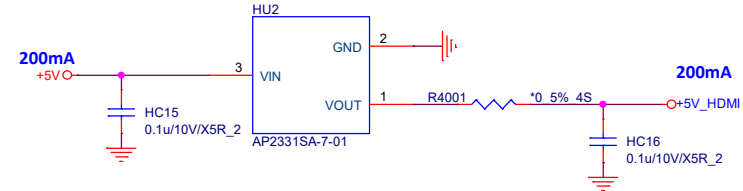
EQ = Receiver equalization setting; Internal pull down at ~150Kohm, 3.3V I/O  
 L : Programmable EQ for channel loss up to 12.4dB @ 3.0Gbps (default)  
 H : Programmable EQ for channel loss up to 4.3dB @ 3.0Gbps  
 M : Programmable EQ for channel loss up to 8.6dB @ 3.0Gbps



PRE = Output pre-emphasis setting for data; Internal pull down at ~150Kohm, 3.3V I/O  
 L : No pre-emphasis (default)  
 H : 2.5dB pre-emphasis

PD# = Chip power down. Active LOW; Internal pull up at ~150Kohm, 3.3V I/O  
 H : Normal operation (default)  
 L : Chip power down

DCIN\_EN = DC coupling enable; Internal pull down at ~150Kohm, 3.3V I/O  
 L : AC coupling (default)  
 H : DC coupling input



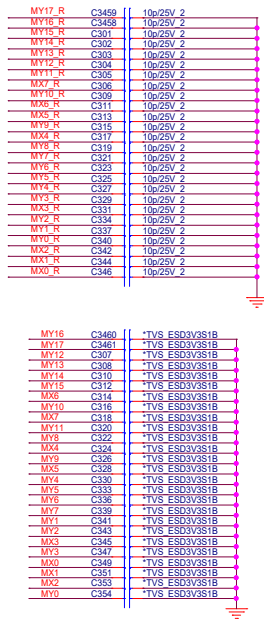
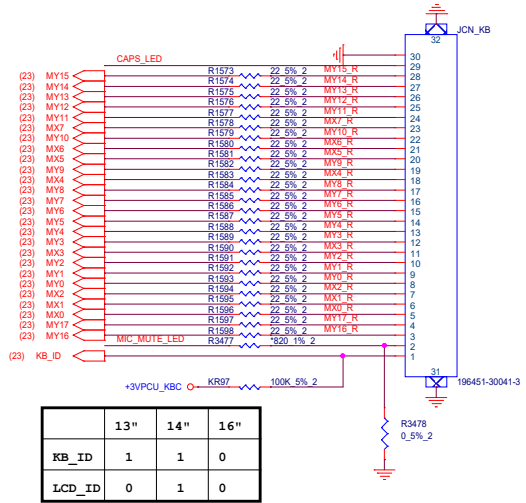
This part should not contain any substances which are specified in EM-S303.

20220602a

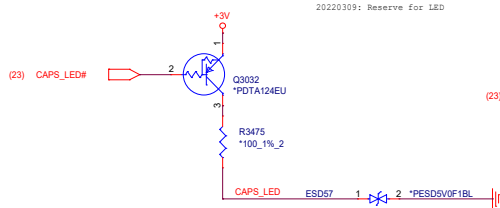
**Quanta Computer Inc.**  
PROJECT : TRA

Size	Document Number	Rev
	<b>HDMI 1.4b PS8203A</b>	2A
Date:	Wednesday, February 01, 2023	Sheet 33 of 50

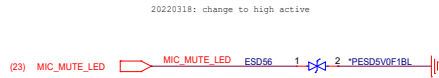
# Keyboard Connector



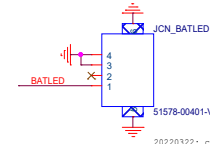
## CAPS LED (Reserve)



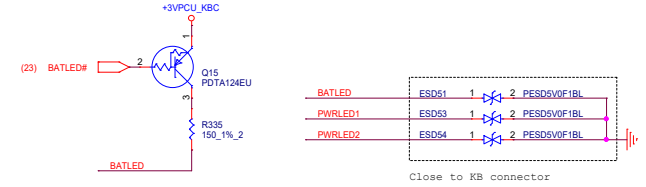
## MIC LED (Reserve)



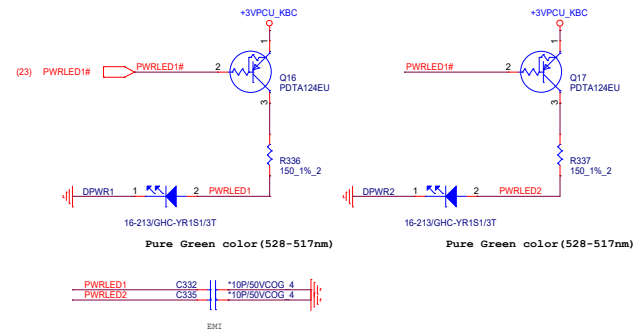
# LED



## BATTERY LED



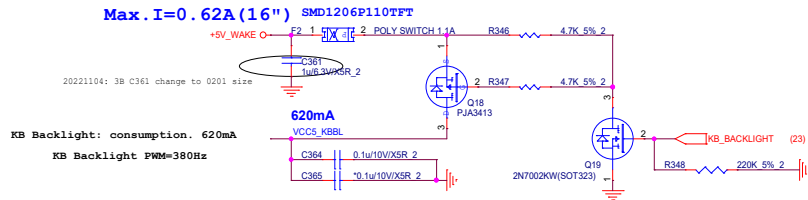
## POWER LED



# Keyboard Backlight

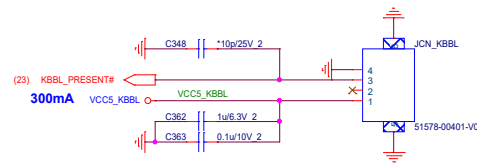
Test case	Pattern6
Temperature	43.7
F2 Temp. (C)	

Temperature	40C	50C
Fuse I- hold current(A)	0.92	0.83



# KB Backlight Connector

Pitch 0.5mm



20221104a

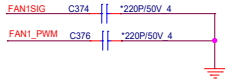
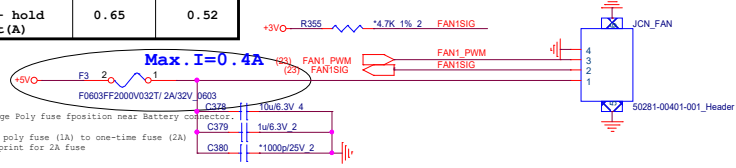
**Quanta Computer Inc.**  
PROJECT : TRA

Size	Document Number	Rev
	<b>MB to KB &amp; LED</b>	39
Date:	Wednesday, February 01, 2023	Sheet 34 of 50

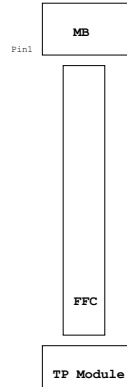
FAN

Test case	Pattern3	
Temperature	F3 Temp. (C)	
F3 Temp. (C)	70C	85C

Temperature	70C	85C
Current	0.65	0.52
Fuse I- hold current(A)		



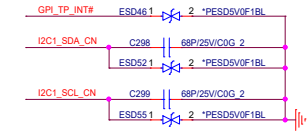
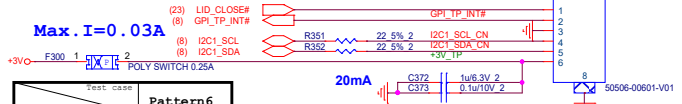
TouchPAD



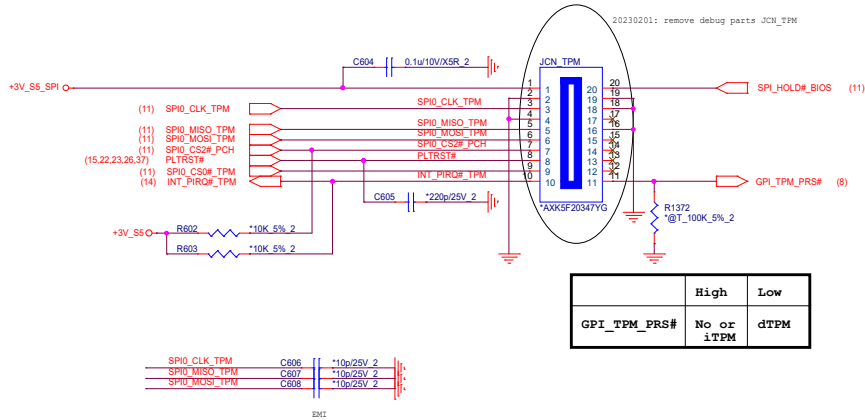
- LID\_CLOSE#
- /INT#
- QSD
- I2C\_SCL
- I2C\_SDA
- VDD\_3.3V

Test case	Pattern6	
Temperature	F300 Temp. (C)	
F300 Temp. (C)	60C	70C

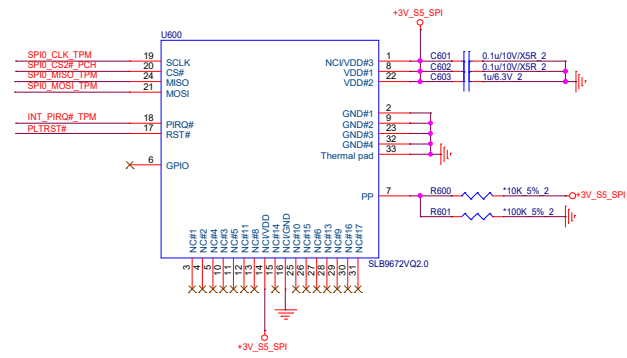
Temperature	60C	70C
Current	0.16	0.14
Fuse I- hold current(A)		



TPM

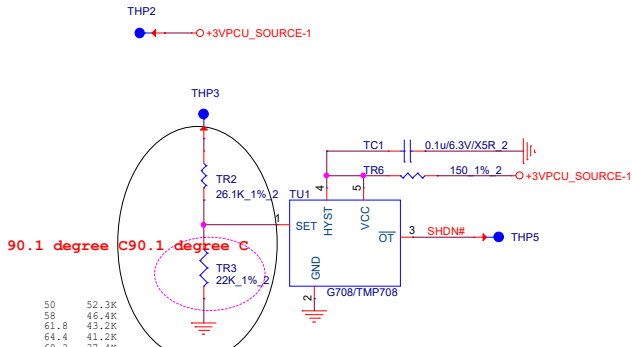


TPM on Board





As close as possible to CPU

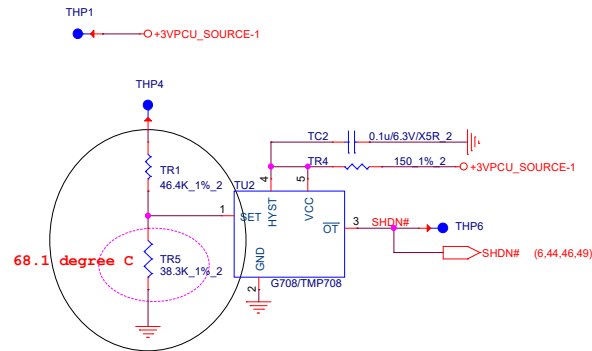


90.1 degree C 90.1 degree C

- 50 52.3K
- 58 46.4K
- 61.8 43.2K
- 64.4 41.2K
- 69.3 37.4K
- 75 32.4K
- 78 30.9K
- 80 29.4K
- 83 27.4K
- 90.8 21.5K
- 92.9 20K
- 107 10.3K
- 110 8.2K

Change H/W shutdown trigger point by thermal requirement.

Thermally far from heat source



68.1 degree C

Change H/W shutdown trigger point by thermal requirement.

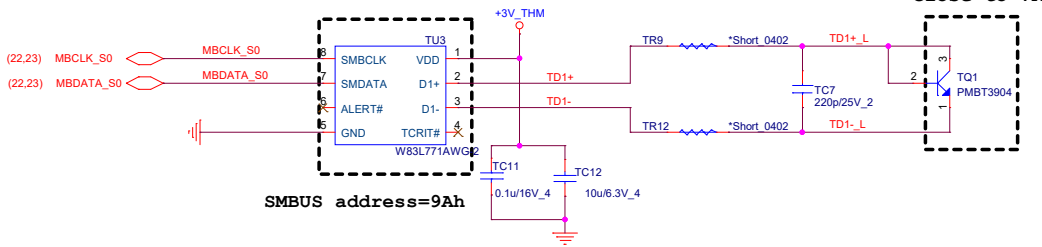
$$RSET(K\Omega) = 0.0012T^2 - 0.9308T + 96.147$$

UMA SKU					
Location of IC	Temp	R-Set	Parts in BOM	Max	Min
Near USB3 CN sensor temp	68.1	TR5=38.3K	TR5=38.3K		
Near CPU sensor temp	90.1	TR3=22K	TR3=22K		

Change H/W shutdown trigger point by thermal requirement.

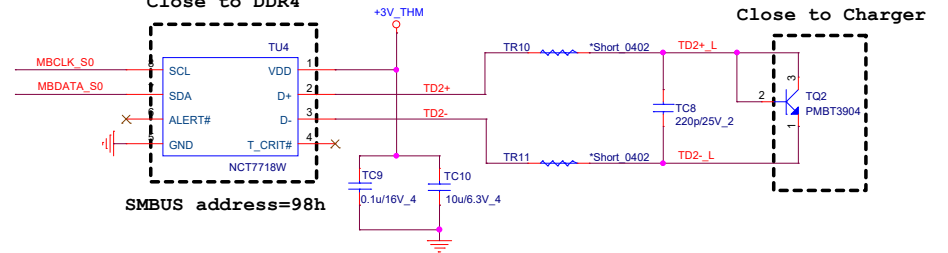
S/W Thermal Protect

Close to main heatpipe

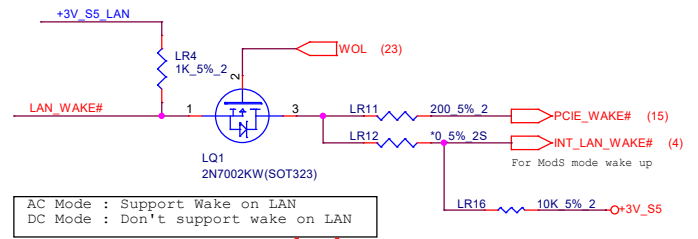
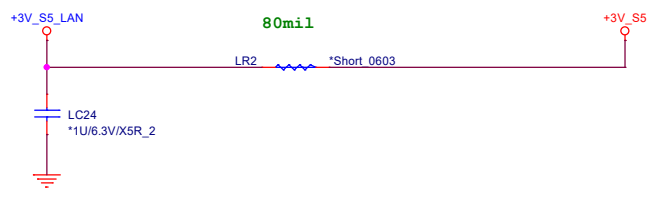
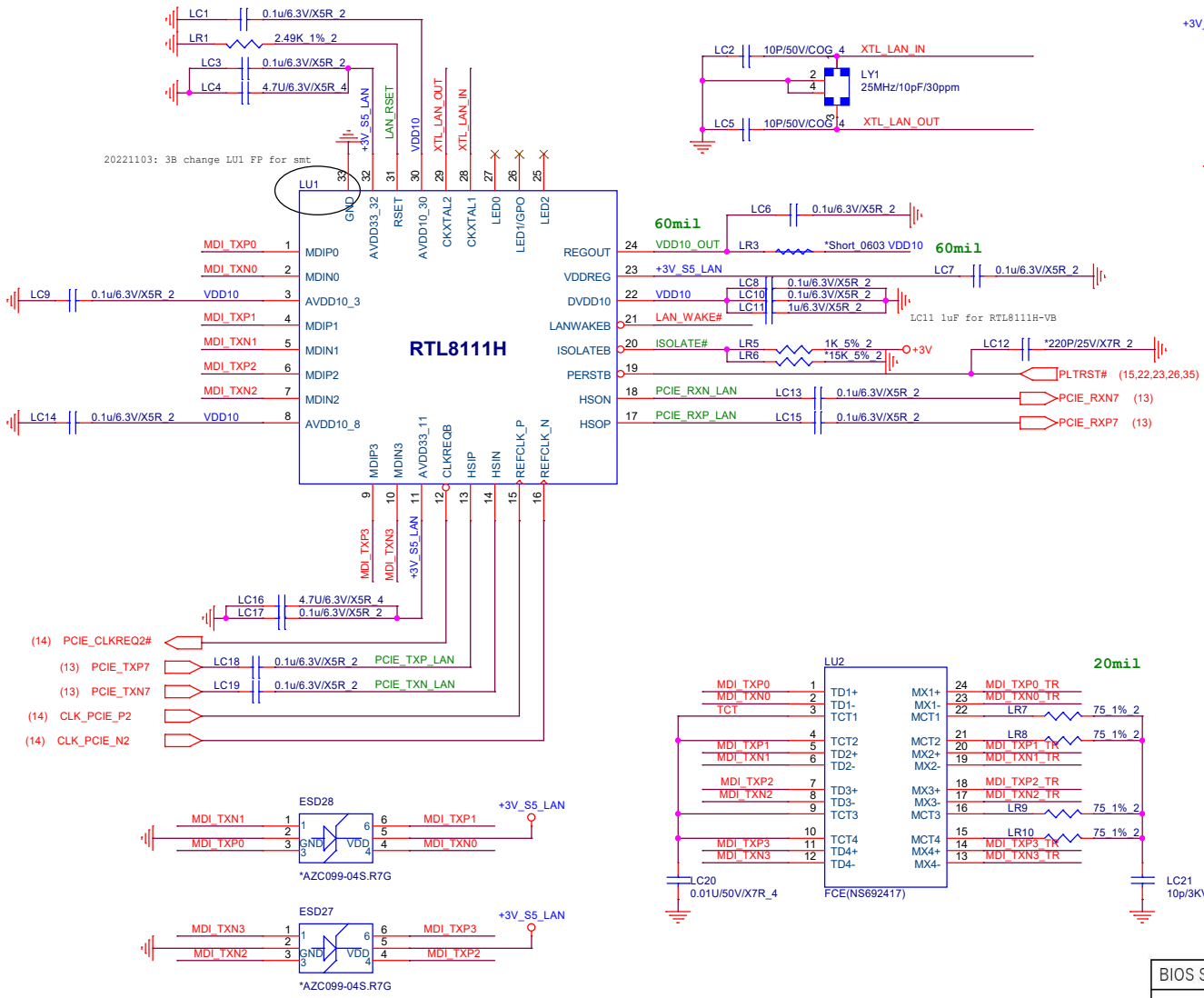


SMBUS address=9Ah

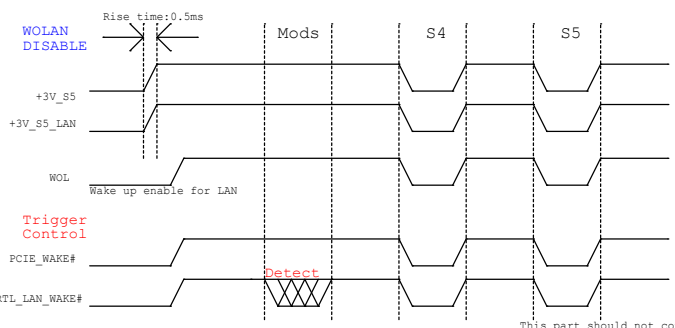
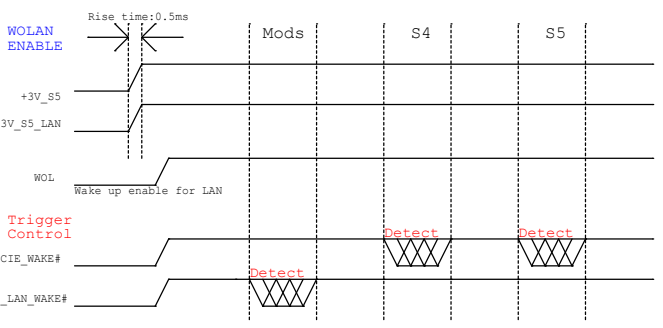
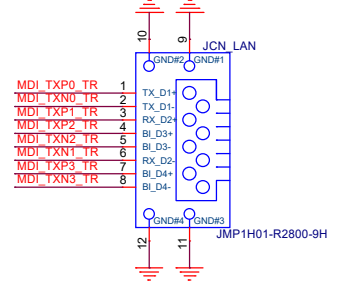
Close to DDR4



SMBUS address=98h



AC Mode : Support Wake on LAN  
DC Mode : Don't support wake on LAN



BIOS Setup	WoLAN from Power Off Disabled		WoLAN from Power Off Enabled	
	S5 Power	WOL signal	S5 Power	WOL Signal
S0 (Including ModS)	On	H	On	H
S3	On	H	On	H
S4/S5 (AC)	Off(*)	L	On	H
S4/S5 (DC)	Off(*)	L	Off(*)	L

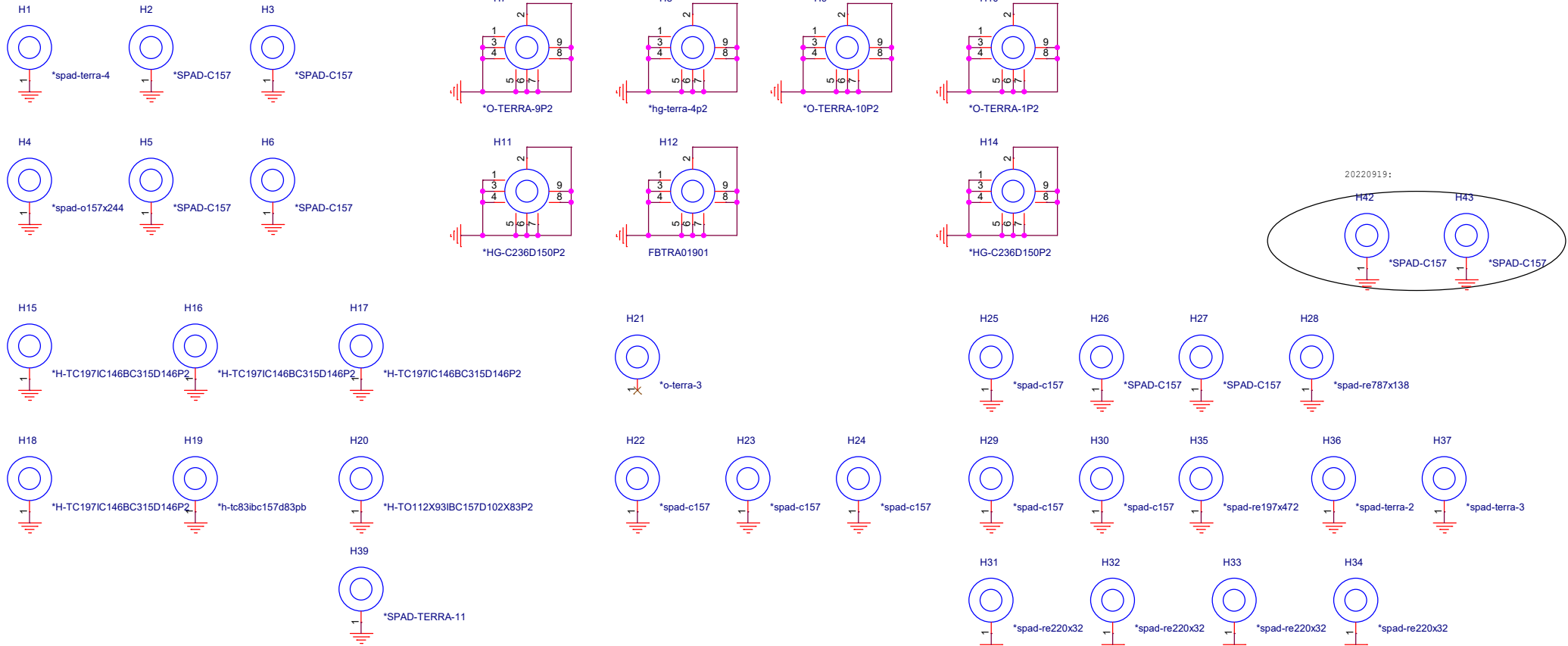
\* If S5 power is required by other condition, it is On.

20221103a

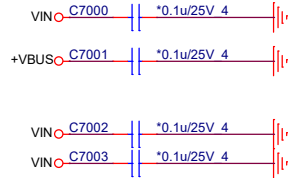
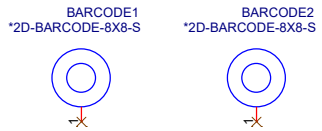
**Quanta Computer Inc.**  
PROJECT : TRA

Size: Document Number: LAN RTL-8111H  
Date: Wednesday, February 01, 2023 Sheet 37 of 50

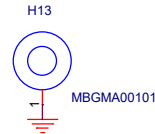
# Screw Hole




## 2D Barcode



## SSD NUT



This part should not contain any substances which are specified in EM-S303.

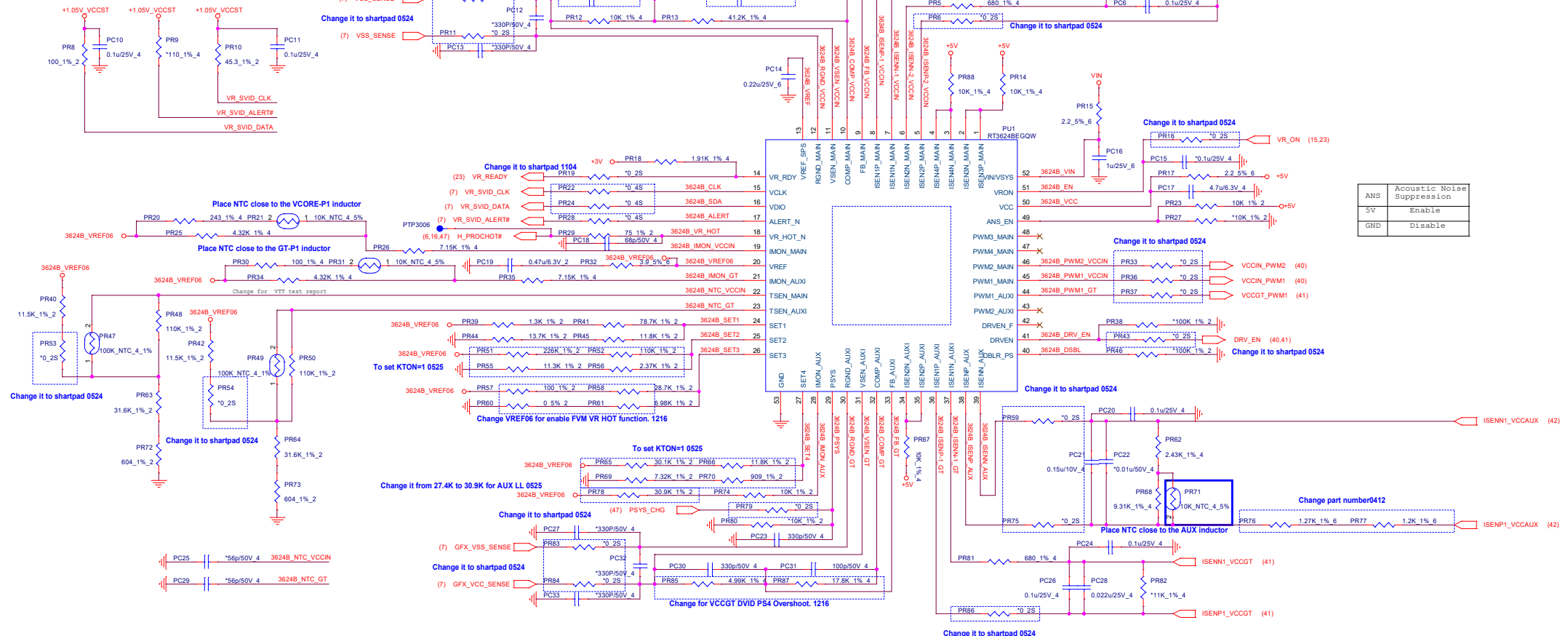
 <b>Quanta Computer Inc.</b> PROJECT : TRA		Rev 2F
Date: Wednesday, February 01, 2023		Sheet 38 of 50

20220623a

Platform	SKU	Phase	VCC_CORE					VCC_GT				
			TDC	ICCMAX	DC LL	AC LL	Freq	TDC	ICCMAX	DC LL	AC LL	Freq
ADL	15W-Performance	2+1	43A	80A	2.8mohm	2.8mohm	421.43kHz	23A	40A	3.2mohm	3.2mohm	421.43kHz
RPL	15W-Performance	2+1	46A	81A	2.8mohm	2.8mohm	421.43kHz	23A	40A	3.2mohm	3.2mohm	421.43kHz

SVID Topology Notes

Note	Detail
SVID signals	VIDSOUT, VIDSK, VIDSALETR#
VIDSOUT platform resistors	Rpu1=100Ω, Rpu2=100Ω
VIDSK platform resistors	Rpu1=Empty Rpu2=45Ω
VIDSALETR# platform resistors	Rpu1=56Ω Rpu2=EmptyΩ

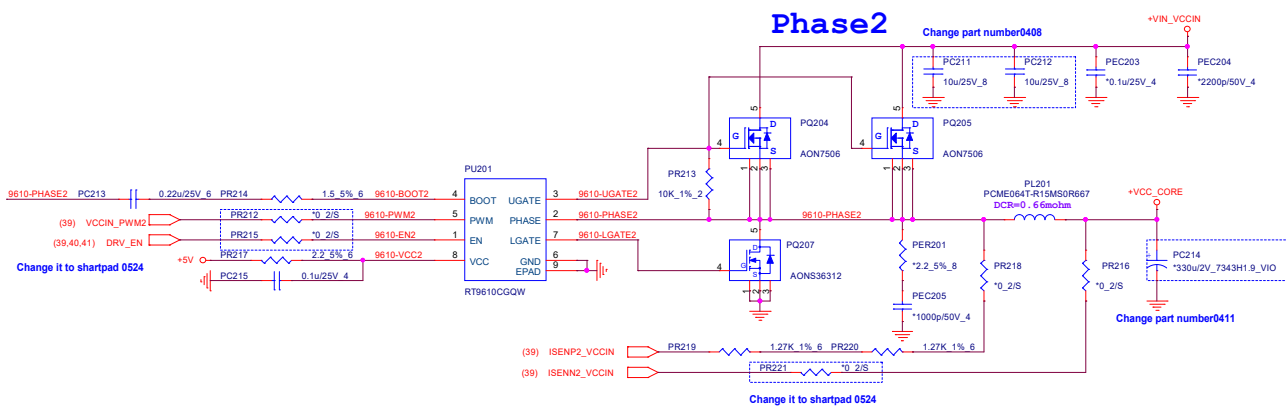
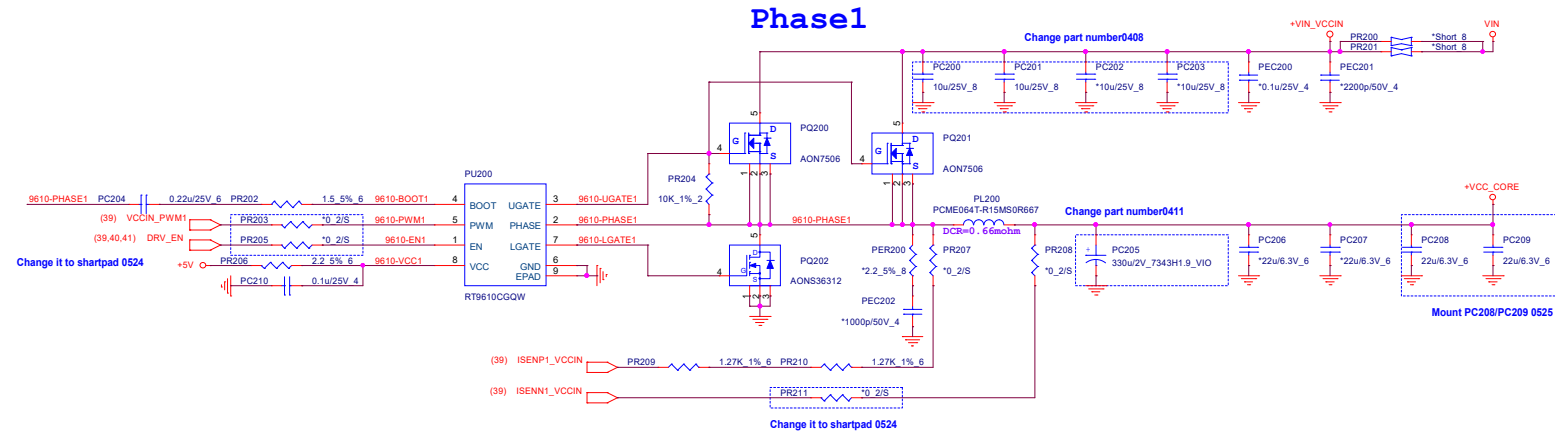


ANS	Acoustic Noise Suppression
5V	Enable
GND	Disable

VCC\_CORE

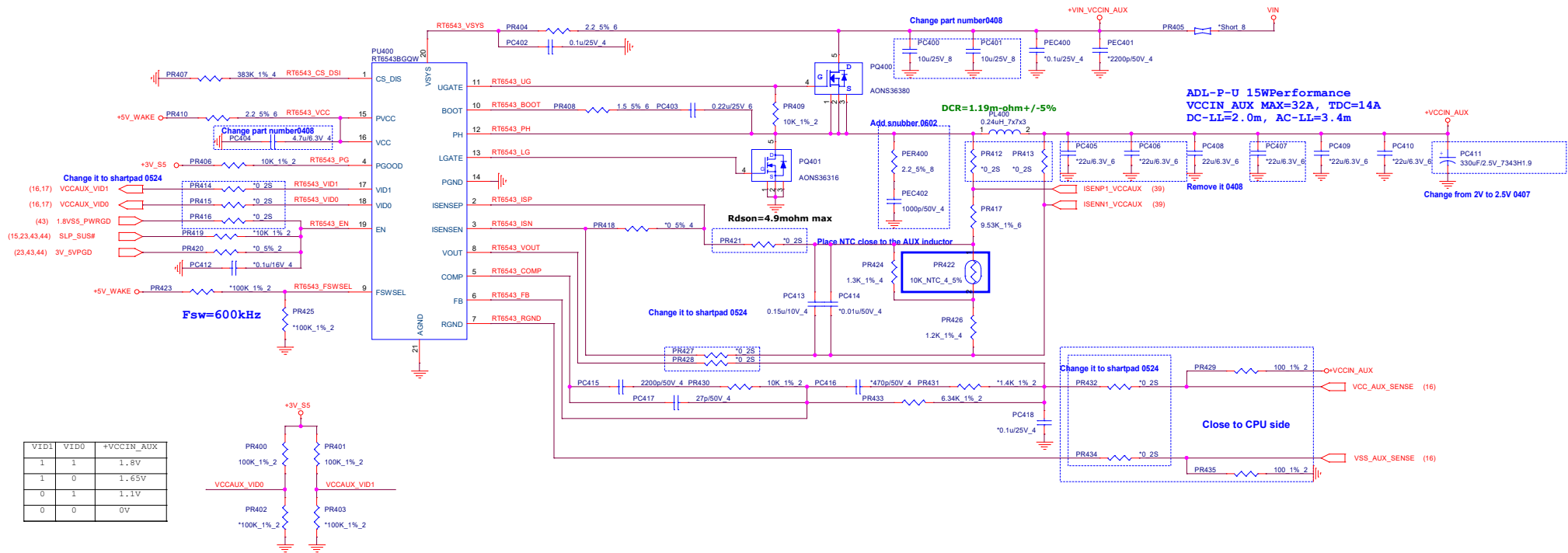
U15W TDP=15W TDC 46A EDC 81A  
LL=2.8ohm

15W-performance, PL1=15W, PL2=55W, PL3=57W, PL4=123W

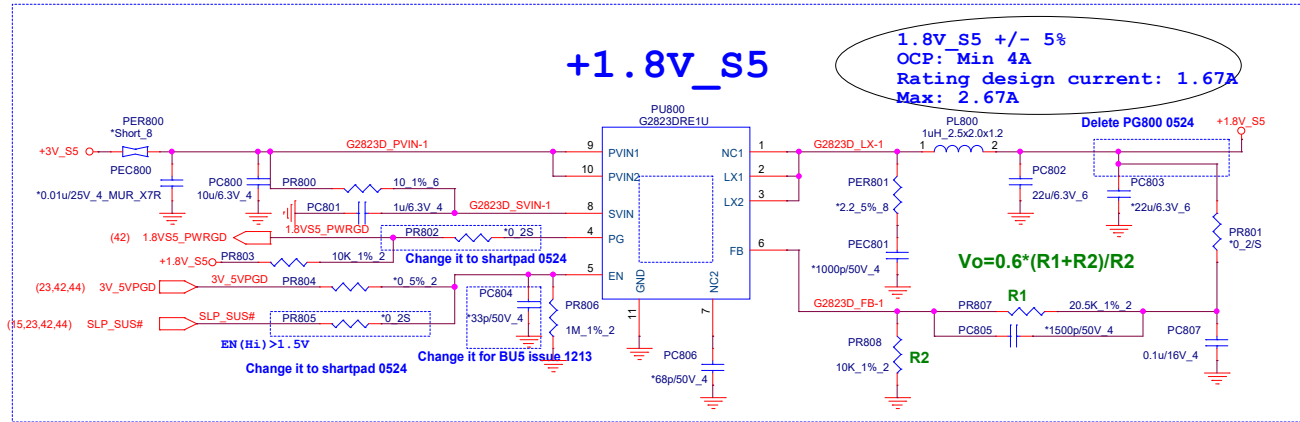




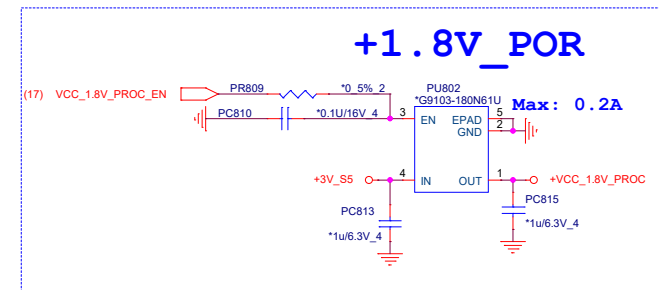
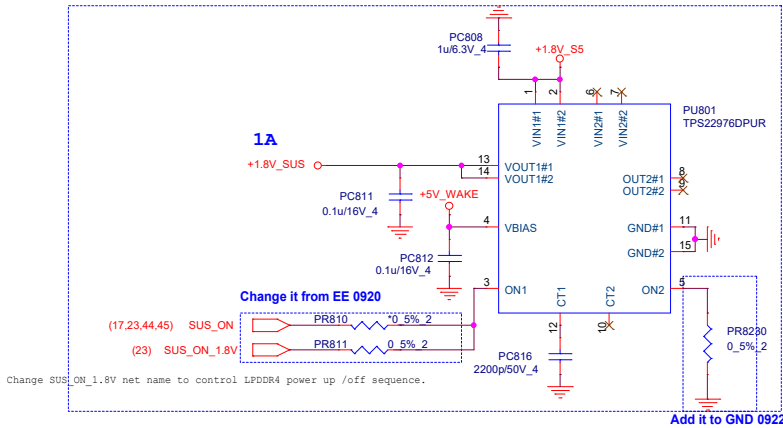
Platform	SKU	Phase	TDC	ICCMAX	DC LL	AC LL	Freq
ADL	15W-Performance	1	14A	32A	2.0mohm	3.4mohm	600khz
RPL	15W-Performance	1	14A	32A	2.0mohm	3.4mohm	600khz



Unknown



20220908 Add +1.8V\_SUS load switch

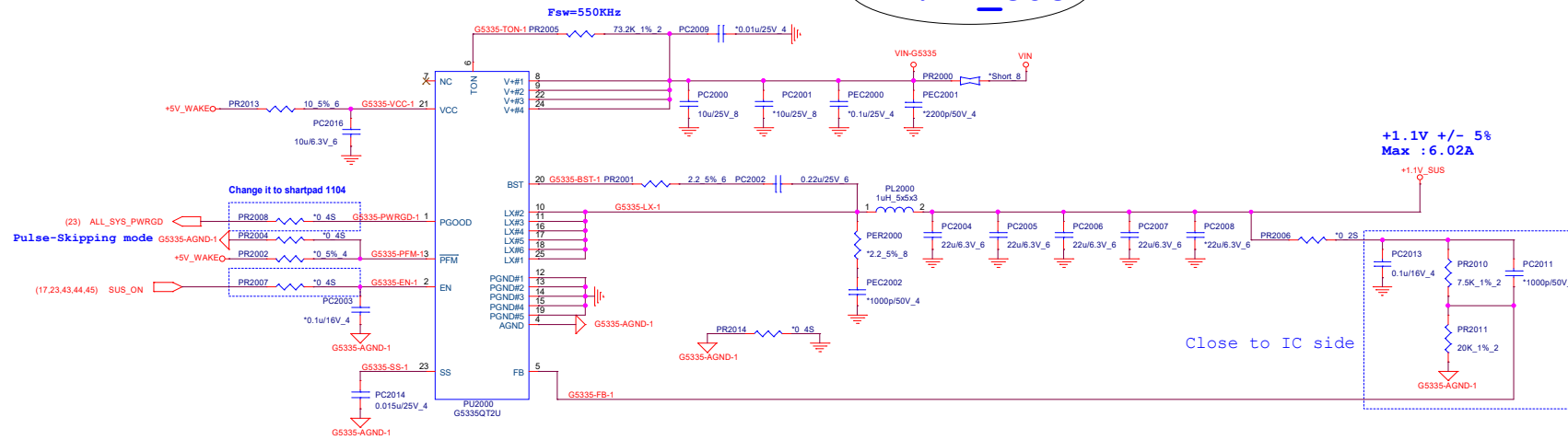






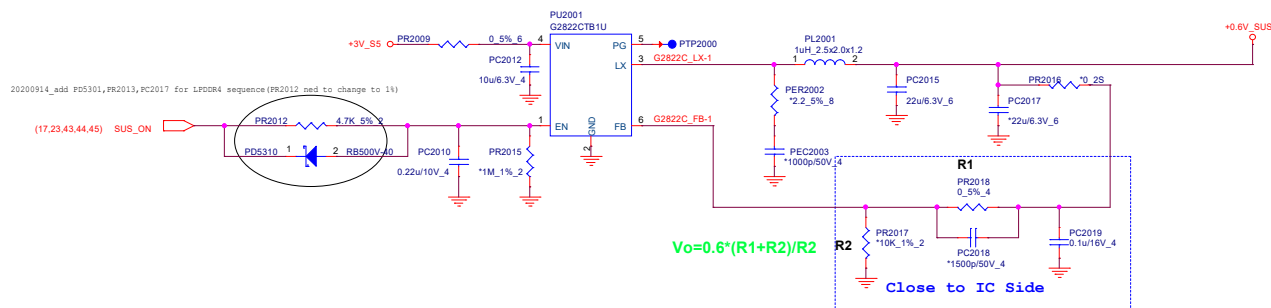
20220908 Change from +1.2V\_SUS to +1.1V\_SUS.

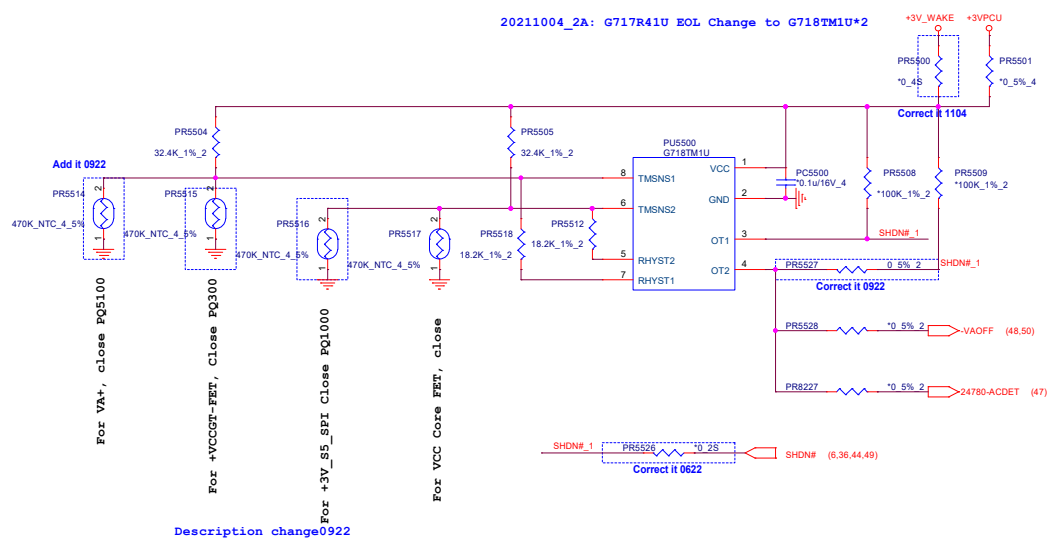
**+1.1V\_SUS**

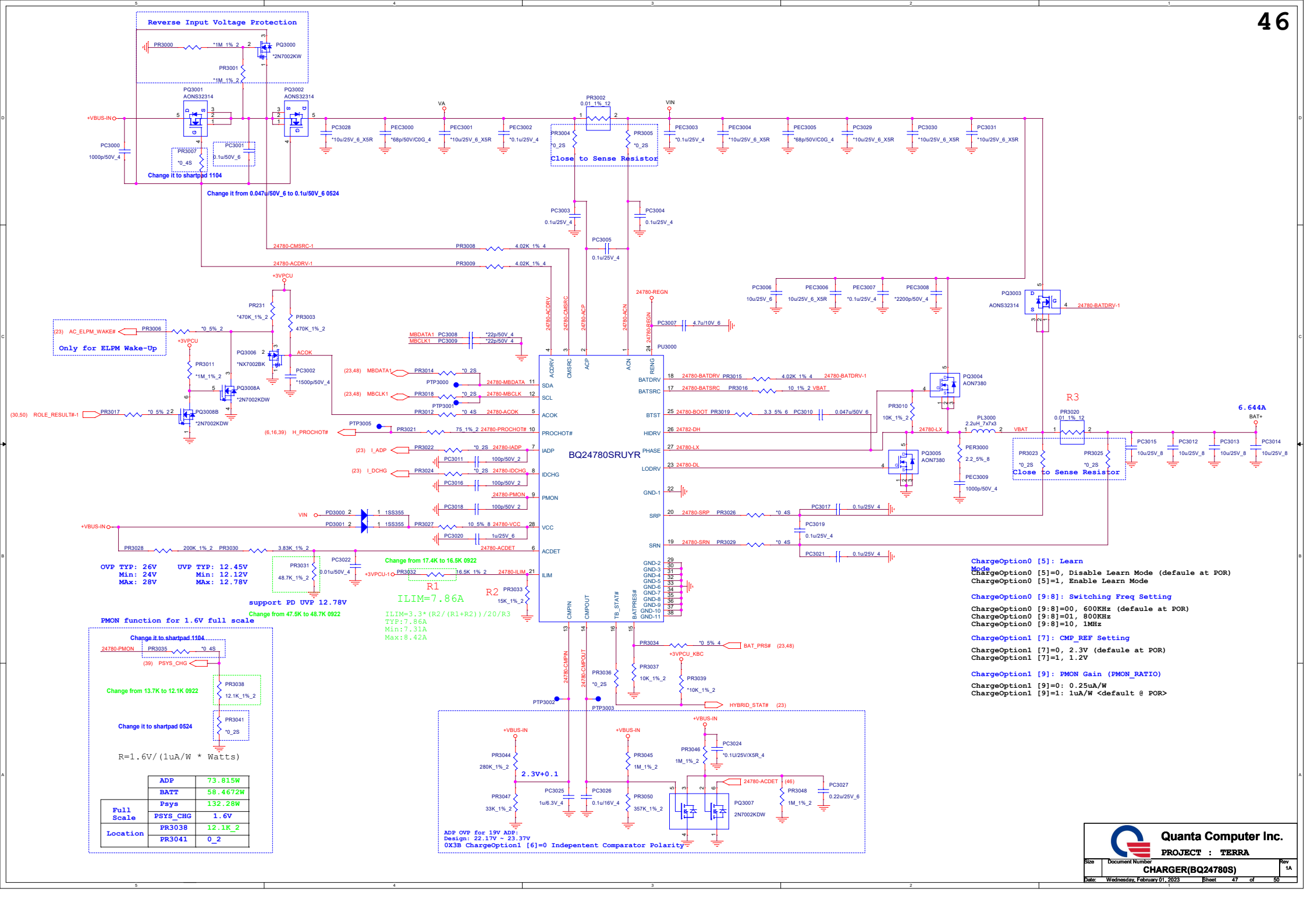


20220908 Change from +2.5V\_SUS to +0.6V\_SUS.

**+0.6V\_SUS**







(23) AC\_ELPM\_WAKE# PR3008  
Only for ELPM Wake-Up

BQ24780SRUYR

- ChargeOption0 [5]: Learn Mode
- ChargeOption0 [5]=0, Disable Learn Mode (default at POR)
- ChargeOption0 [5]=1, Enable Learn Mode
- ChargeOption0 [9:8]: Switching Freq Setting
- ChargeOption0 [9:8]=00, 600KHz (default at POR)
- ChargeOption0 [9:8]=01, 800KHz
- ChargeOption0 [9:8]=10, 1MHz
- ChargeOption1 [7]: CMP\_REF Setting
- ChargeOption1 [7]=0, 2.3V (default at POR)
- ChargeOption1 [7]=1, 1.2V
- ChargeOption1 [9]: PMON Gain (PMON\_RATIO)
- ChargeOption1 [9]=0, 0.25uA/W
- ChargeOption1 [9]=1, 1uA/W <default @ POR>

OVTP TYP: 26V UVP TYP: 12.45V  
Min: 24V Min: 12.12V  
Max: 28V Max: 12.78V

support PD UVP 12.78V

ILIM=3.3 \* (R2 / (R1+R2)) / 20/R3  
TYP: 7.86A  
Min: 7.31A  
Max: 8.42A

PMON function for 1.6V full scale

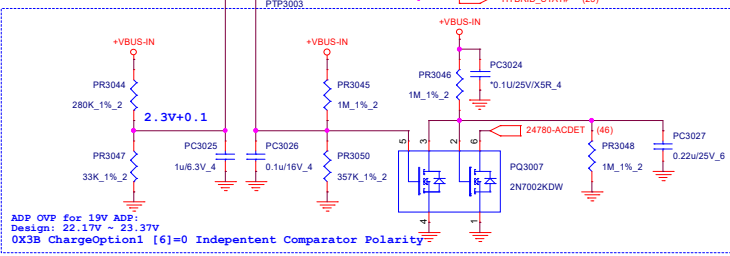
Change it to shartpad 1104

Change from 13.7K to 12.1K 0922

Change it to shartpad 0524

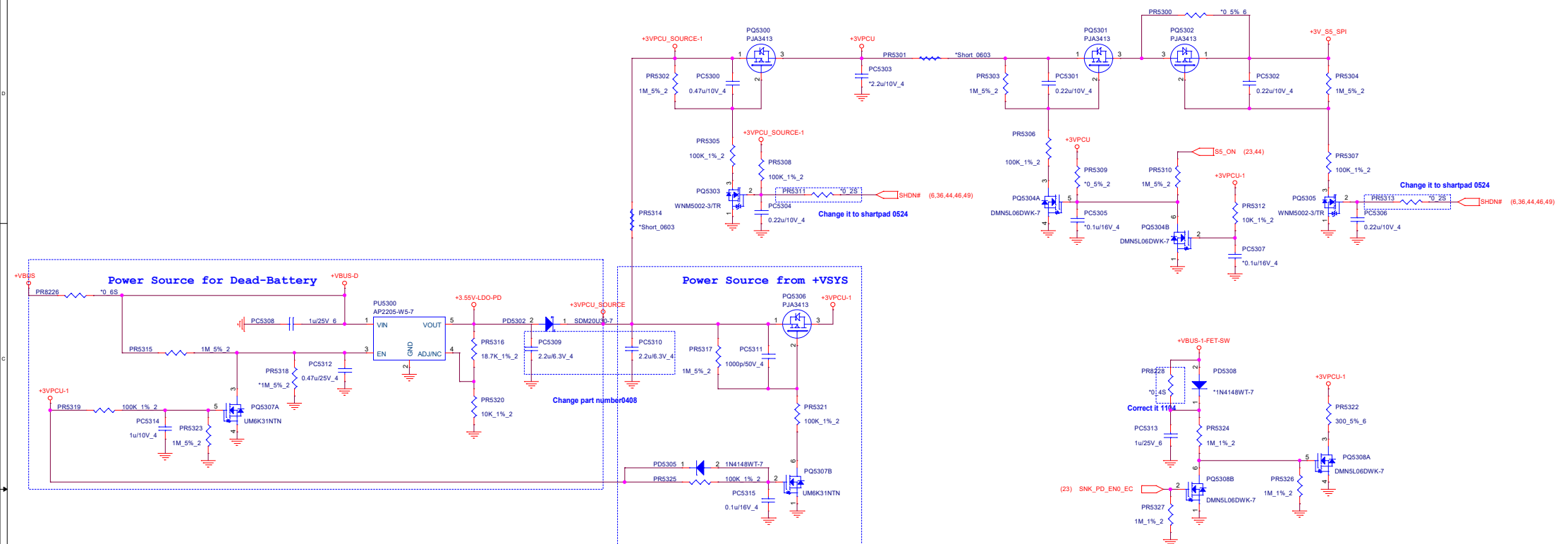
R=1.6V / (1uA/W \* Watts)

ADP	73.815W
BATT	58.4672W
Full Scale	132.28W
Location	PSYS_CHG 1.6V
	PR3038 12.1K_2
	PR3041 0_2



ADP OVP for 15V ADP: Design: 22.17V ~ 23.37V  
0X3B ChargeOption1 [6]=0 Independent Comparator Polarity



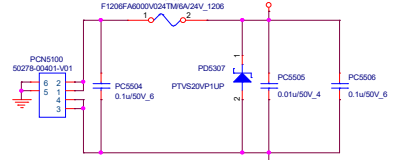


This part should not contain any substances which are specified in DM-3303.

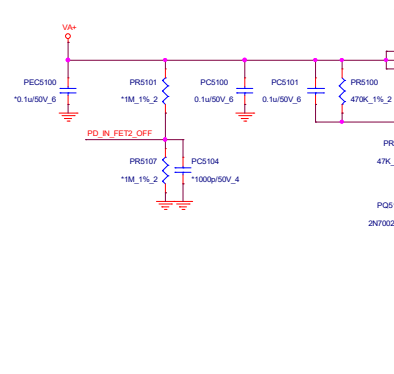
ADP-IN

AC ADAPTOR IN CONN

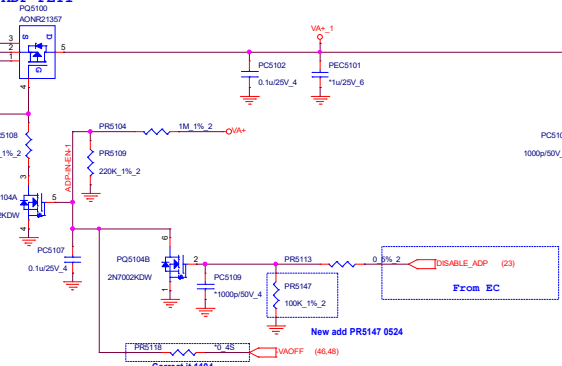
Fuse Rating =  
 $I_R(max) / (0.75 * 0.88)$   
 $65W / 19.5V / 0.66 = 5.05A$



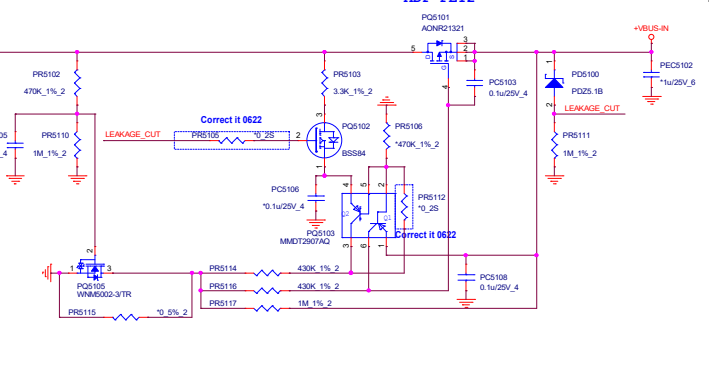
ADP-IN (1st Priority)



ADP-FET1

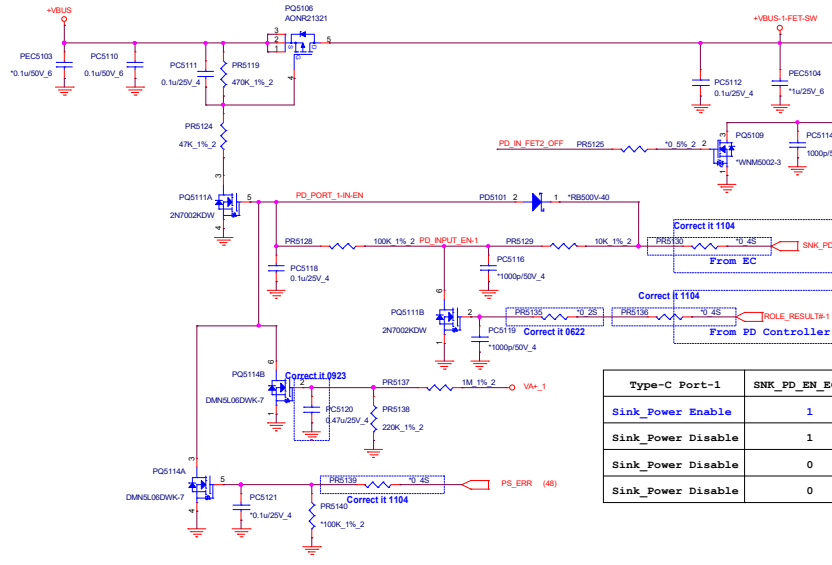


ADP-FET2

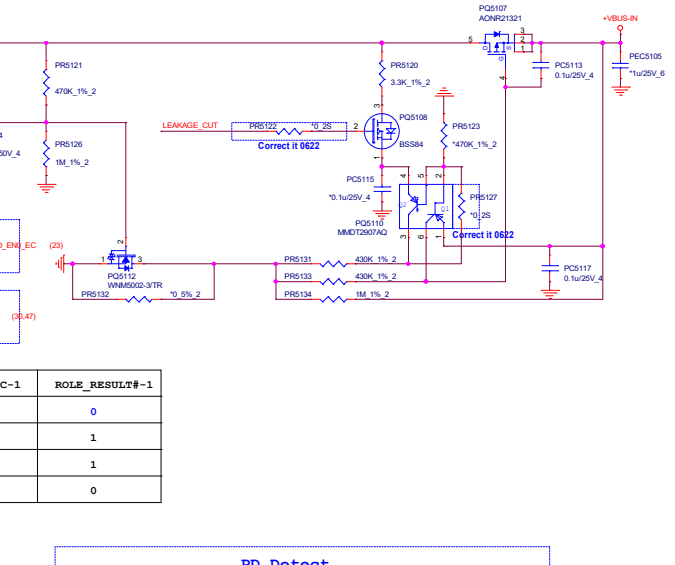


PD\_IN (Type-C Port 1)

Port 1-FET1

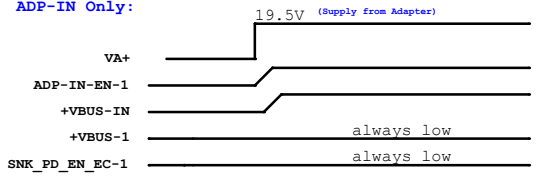


Port 1-FET2

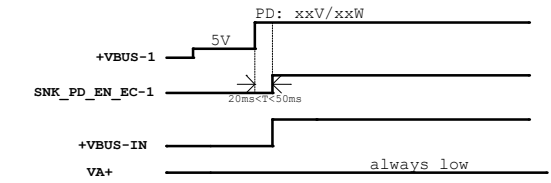


Type-C Port-1	SNK_PD_EN_EC-1	ROLE_RESULT#-1
Sink_Power Enable	1	0
Sink_Power Disable	1	1
Sink_Power Disable	0	1
Sink_Power Disable	0	0

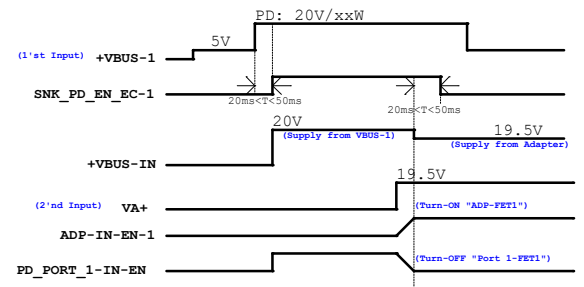
ADP-IN Only:



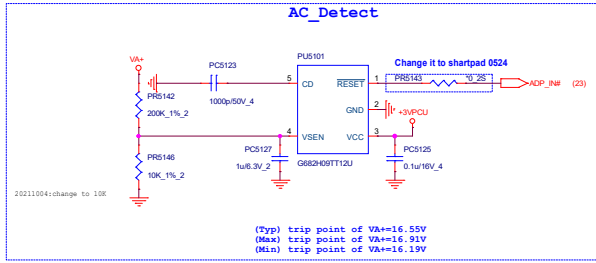
Sink Power from VBUS-1:



Sink Power Transition (From VBUS-1 to Adaptor):



AC\_Detect



PD\_Detect

