

Compal Confidential

IH5JM

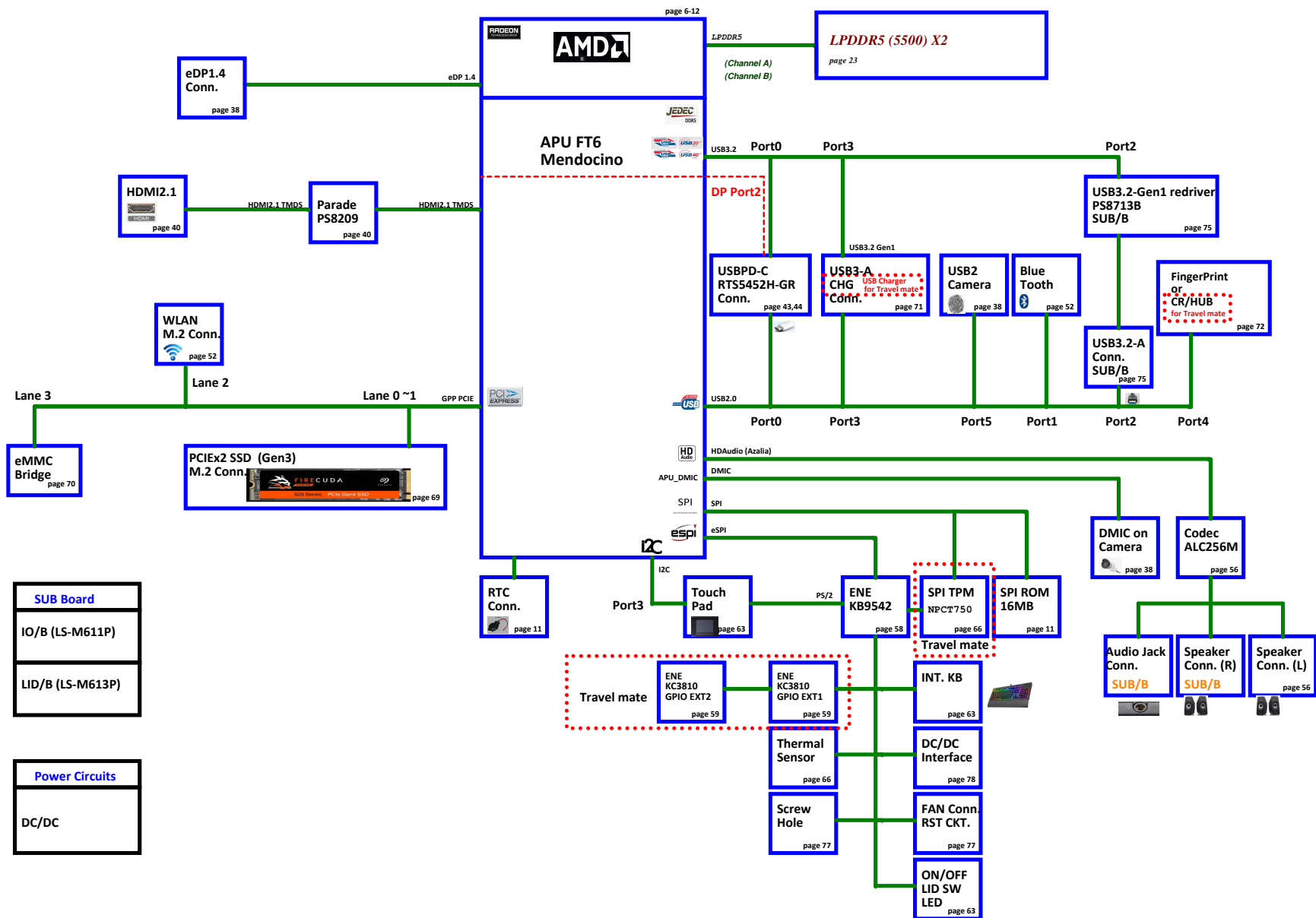
M/B Schematic Documents

LA-M611P

2022-09-02

Rev : 1A

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date		2022/4/26	Deciphered Date	2024/04/26	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.		Title		Cover Page	
		Size Custom	Document Number		Rev 1A
Date:		Friday, September 02, 2022		Sheet	1 of 122



SUB Board
IO/B (LS-M611P)
LID/B (LS-M613P)

Power Circuits
DC/DC

Voltage Rails		SO	S0/S3	S5
+19V_VIN	Adapter power supply	ON	ON	ON
+19VB	AC or battery power rail for power circuit.	ON	ON	ON
+0.75VALW_APU	F76 APU Always ON 0.75V Power	ON	ON	ON
+1.8VALW	F76 APU Always ON 1.8V Power	ON	ON	ON
+3VALW	F76 APU Always ON 3.3V Power	ON	ON	ON
+1.8V_MEM	LPDDR5 1.8V Power Rail	ON	ON	ON
+1.05V_MEM	LPDDR5 1.05V Power Rail	ON	ON	ON
+0.5V_VDDQ	LPDDR5 0.5V Power Rail	ON	OFF	OFF
+VDD_MEM	F76 APU 50 Power rail 0.75V	ON	OFF	OFF
+1.1VS_APU	F76 APU 50 Power rail 1.1V	ON	OFF	OFF
+1.8VS	System 1.8V 50 Power Rail	ON	OFF	OFF
+3VS	System 3.3V 50 Power Rail	ON	OFF	OFF
+3VS	System 3V 50 Power Rail	ON	OFF	OFF
+APU_CORE	F76 APU Core Power Supply	ON	OFF	OFF
+APU_CORE_SDC	F76 APU Core Controller Power Supply	ON	OFF	OFF
+3VS_CAM	Camera Power S0/S3 Keep ON	ON	ON	OFF
+3V_WLAN	Wi-Fi Power S0/S3 Keep ON	ON	ON	OFF
+1.8V_AUDIO	CODEC 1.8V S0/S3 Keep ON	ON	ON	OFF
+3V_AUDIO	CODEC 3.3V S0/S3 Keep ON	ON	ON	OFF
+8V_AUDIO	CODEC 8V S0/S3 Keep ON	ON	ON	OFF
+TP_VCC	Touch Pad Power S0/S3 Keep ON	ON	ON	OFF

EC SMBus Address Table			
Master	Device	Address(7-bit)	Address(7-bit)R
EC_SMB_CK1 (+3VLP_ECVCCK)	Smart Battery	0001 0110b 16h	
	Charger IC	0001 0010b 12h	
	APU Temp.	1001 1000b 98h	
	RT3674AE	0010 0011 23h	0100 0110 46h
EC_SMB_CK2 (+3VALW)	Thermal Sensor Temp. (UF1)	1001 1010b 9A	
EC_I2C_1_SCL (+3V_POLD0)	PD RTS5452H-GF Controller	addr0:0xCC	
ESB_CLK (+3VLP_ECVCCK)	KC3810 (UK2)	1100 0000b C0h	
	KC3810 (UK7)	1100 1000b C8h	

PCIe Port	
PORT	FUNCTION
PCIE 0	eMMC bridge (PCIe x1)
PCIE 1	Co-4ay SSD (PCIe x2)
PCIE 2	WLAN
PCIE 3	Card Reader

SMBUS Control Table							
	SOURCE	APU	BATT	EC	SODIMM	WLAN	RT3674
EC_SMB_CK1 EC_SMB_DA1	9452 +3VLP_ECVCCK	X	V +3VLP_ECVCCK	V +3VLP_ECVCCK	X	X	X
	EC_SMB_CK2 EC_SMB_DA2	9452 +3VALW	V +3VS	V +3VALW	X	X	V +3VALW

USB3.0 Port	
PORT	FUNCTION
0	Type-C
1	
2	
3	USB3.0 Type-A
4	

USB2.0 Port	
PORT	FUNCTION
0	Type-C
1	Bluetooth
2	Type-A USB2.0 Port (SB)
3	USB3.0 Type-A
4	Finger Print
5	Camera

EC Board ID Table for AD channel						
PCB Ver.	Board ID	Ra	100K +/- 1%	Vmin	Vtyp	EC AD
Rev. 0.1 Rev. 0.2 Rev. 0.3 Rev. 1.0 Rev. 1.1 Rev. 1.2 Rev. 1.3 Rev. 1.4 Rev. 1.5	0	0	0	0.000 V	0.300 V	0x00 - 0x13
1	12K +/- 1%	0.347 V	0.345 V	0.360 V	0x14 - 0x1E	SD034120280
2	15K +/- 1%	0.423 V	0.430 V	0.438 V	0x1F - 0x25	SD034150280
3	20K +/- 1%	0.541 V	0.550 V	0.559 V	0x26 - 0x30	SD034200280
4	27K +/- 1%	0.691 V	0.702 V	0.713 V	0x31 - 0x3A	SD034270280
5	33K +/- 1%	0.807 V	0.819 V	0.831 V	0x3B - 0x45	SD034300280
6	43K +/- 1%	0.978 V	0.992 V	1.006 V	0x46 - 0x54	SD034430280
7	56K +/- 1%	1.169 V	1.185 V	1.200 V	0x55 - 0x64	SD034560280
8	75K +/- 1%	1.398 V	1.414 V	1.430 V	0x65 - 0x76	SD034750280
9	100K +/- 1%	1.634 V	1.650 V	1.667 V	0x77 - 0x87	SD034100380
10	130K +/- 1%	1.849 V	1.865 V	1.881 V	0x88 - 0x96	SD034130380
11	160K +/- 1%	2.015 V	2.031 V	2.046 V	0x97 - 0xA4	SD034160380
12	200K +/- 1%	2.185 V	2.200 V	2.215 V	0xA5 - 0xA8F	SD034200380
13	240K +/- 1%	2.316 V	2.329 V	2.343 V	0xA9 - 0xB7	SD000001B80
14	270K +/- 1%	2.395 V	2.408 V	2.421 V	0xB8 - 0xBF	SD000000G280
15	330K +/- 1%	2.521 V	2.533 V	2.544 V	0xC0 - 0xC9	SD034300380
16	430K +/- 1%	2.667 V	2.677 V	2.687 V	0xCA - 0xD4	SD000000M80
17	560K +/- 1%	2.791 V	2.800 V	2.808 V	0xD5 - 0xDD	SD034560380
18	750K +/- 1%	2.905 V	2.912 V	2.919 V	0xDE - 0xF0	SD000000AL80
19	NC	3.000 V	3.000 V		0xF1 - 0xFF	

EVT@	SD034000080	0_0402_1%
DVT@	SD034120280	12K +5% 0402
PVT@	SD034150280	15K +5% 0402
PVT2@	SD034200280	20K +5% 0402
MP@	SD034270280	27K +5% 0402

On Board LPDDR5 X76 Table

Item (X76)	BOM Structure	P/N
Micron 4G	X76MIC4G@/MICS_4G@	X76987B0L01
Samsung 4G	TBD	TBD
SK Hynix 4G	X76HYN4G@/HYNS_4G@	X76987B0L02
Micron 8G	X76MIC8G@/MICS_8G@	X76987B0L03
Samsung 8G	X76SAM8G@/SAMS_8G@	X76987B0L05
SK Hynix 8G	X76HYN8G@/HYNS_8G@	X76987B0L06
Micron 16G	X76MIC16G@/X76MIC16@	X76987B0L06
Samsung 16G	X76SAM16G@/SAMS_16G@	X76987B0L07
SK Hynix 16G	TBD	TBD

Item (X48) pop	BOM Structure
EMI requirement	EMI@
EMC requirement	EMC@
ESD requirement	ESD@
RF requirement reserved	RF@
ESD requirement for TM Only	TM_ESD@
EMI requirement for TM Only	TM_EMI@
ESD requirement for TM14 Only	TM14_ESD@
EMI requirement for TM14 Only	TM14_EMI@
EMI requirement for TM11 Only	TM11_EMI@

Item (X48) un-pop	BOM Structure
EMI requirement reserved	EMI@
EMC requirement reserved	EMC@
ESD requirement reserved	ESD@
RF requirement reserved	RF@
EMI requirement reserved	TMTPESD@

eMMC X76 Table

Item (X76)	BOM Structure	P/N
KINGSTON 64G	X76K64@	X76987B0L08
KINGSTON 128G	X76K128@	X76987B0L12
WD5G 128G	X76WD128G@	X76987B0L09
WD5G 64G	X76WD64G@	X76987B0L13

43 Level	Description	BOM Structure
431AY8B0L08	IHS5_M3_PR_RAM4G	PCB1@/256@/8209@/PV72@/2012@/ASP@/ROM16@/FT6R3P@/Ryzn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC4G@
431AY8B0L09	IHS5_M3_PR_RAM8G	PCB1@/256@/8209@/PV72@/2012@/ASP@/ROM16@/FT6R3P@/Ryzn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC8G@
431AY8B0L10	IHS5_M3_PR_RAM16G	PCB1@/256@/8209@/PV72@/2012@/ASP@/ROM16@/FT6R3P@/Ryzn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC16G@
431AY8B0L11	IHS5_M3_PR_RAM4G	PCB1@/256@/8209@/PV72@/2012@/ASP@/ROM16@/FT6A3P@/Athn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC4G@
431AY8B0L12	IHS5_M3_PR_RAM8G	PCB1@/256@/8209@/PV72@/2012@/ASP@/ROM16@/FT6A3P@/Athn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC8G@
431AY8B0L13	IHS5_M3_PR_RAM16G	PCB1@/256@/8209@/PV72@/2012@/ASP@/ROM16@/FT6A3P@/Athn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC16G@
431AY8B0L14	IHS5_M3_PR_RAM8G_OTP	PCB1@/256@/8409@/PV72@/2012@/ASP@/ROM16@/FT6R3P@/Ryzn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/ASP75@/T5@/X4EASP@/X76MIC8G@
431AY8B0L15	IHS5_M3_IP_RAM4G	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6R3P@/Ryzn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC4G@
431AY8B0L16	IHS5_M3_IP_RAM8G	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6R3P@/Ryzn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC8G@
431AY8B0L17	IHS5_M3_IP_RAM16G	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6R3P@/Ryzn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC16G@
431AY8B0L18	IHS5_M3_IP_RAM4G	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6A3P@/Athn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC4G@
431AY8B0L19	IHS5_M3_IP_RAM8G	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6A3P@/Athn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC8G@
431AY8B0L20	IHS5_M3_IP_RAM16G	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6A3P@/Athn@/15W@/NCHG@/FP@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC16G@
431AY8B0L21	IHS5_M3_IP_RAM4G_TS	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6R3P@/Ryzn@/15W@/NCHG@/FP@/ASPT5@/T5@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC4G@
431AY8B0L22	IHS5_M3_IP_RAM8G_TS	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6R3P@/Ryzn@/15W@/NCHG@/FP@/ASPT5@/T5@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC8G@
431AY8B0L23	IHS5_M3_IP_RAM16G_TS	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6R3P@/Ryzn@/15W@/NCHG@/FP@/ASPT5@/T5@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC16G@
431AY8B0L24	IHS5_M3_IP_RAM4G_TS	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6A3P@/Athn@/15W@/NCHG@/FP@/ASPT5@/T5@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC4G@
431AY8B0L25	IHS5_M3_IP_RAM8G_TS	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6A3P@/Athn@/15W@/NCHG@/FP@/ASPT5@/T5@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC8G@
431AY8B0L26	IHS5_M3_IP_RAM16G_TS	PCB2@/256@/8209@/MP@/12@/ASP@/ROM16@/FT6A3P@/Athn@/15W@/NCHG@/FP@/ASPT5@/T5@/HDT@/KB@/PD@/SSD1@/TMS@/X4EASP@/X76MIC16G@

CPU PN/APU Platform Mendocino

RYZEN5

UC1

PC/PR_Sample

S IC RYZEN5 100-00000770 3.0 4.0 BGA APU S
FT6R3P
SAD000G0L40

RYZEN3

UC1

ES_Sample

S IC RYZEN3 100-00000676 3.0 4.0 APU S
FT6R3P
SAD000P720

UC1

PC/PR_Sample

S IC RYZEN3 100-00000676 3.0 4.0 BGA APU S
FT6R3P
SAD000P750

UC1

IP_Sample

S IC RYZEN3 100-00000676 3.0 4.0 BGA APU S
FT6R3P
SAD000P770

ATHLON

UC1

PC/PR_Sample

S IC ATHLON 100-00000771 2.0 4.0 BGA APU S
FT6A3P
SAD000P700

UC1

IP_Sample

S IC ATHLON 100-00000771 2.0 4.0 BGA APU S
FT6A3P
SAD000P740

Aspire 15" X4E PN

Travel mate 14" /11.6" X4E PN

222

X4EASP@

MAT FTS16AM11 HSLM

X4EAYB0L01

222

X4ETMB@

MAT FTS16AM11 HSLM

X4EAYB0L02

PCB PN

PVT1/PVT2

PCB PN M16M11P LS M611PMB13P
DAZ200101

801 SADA001001 Rev 1.0
12/04 SADA001001 Rev 1.0
12/04 SADA001001 Rev 1.0

222 PCB@

PCB PN M16M11P LS M611PMB13P
DAZ200101

801 SADA001001 Rev 1.0
12/04 SADA001001 Rev 1.0
12/04 SADA001001 Rev 1.0

HDMI LOGO

222

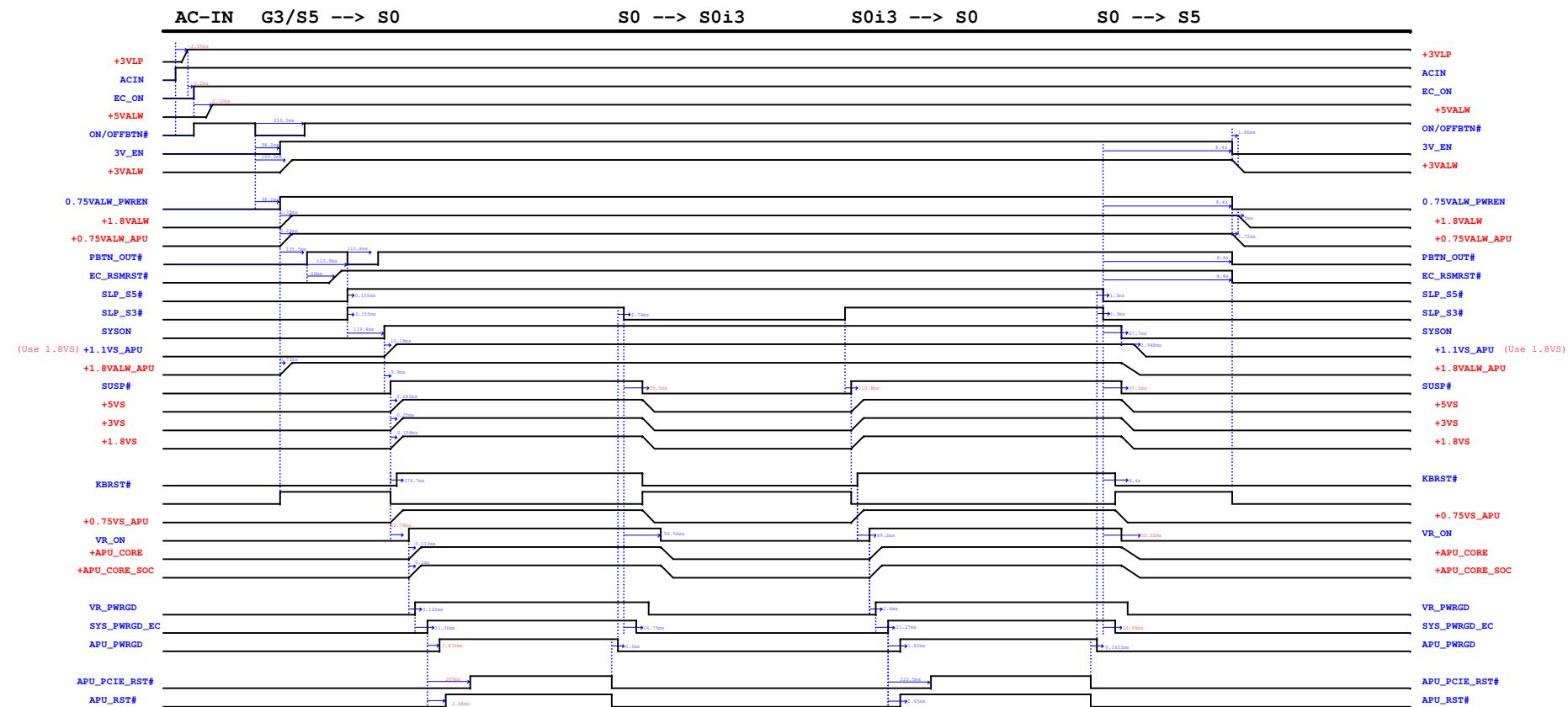
HDMI LOGO

R00000003HM

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2025/4/26	Deciphered Date	2024/4/26	Title	
THIS SHEET OF DRAWINGS/INFORMATION IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL INFORMATION. ANY REUSE, REPRODUCTION, OR DISSEMINATION OF THIS INFORMATION WITHOUT THE WRITTEN PERMISSION OF COMPAL ELECTRONICS, INC. IS STRICTLY PROHIBITED. ANY VIOLATION OF THIS POLICY WILL BE SEVERELY PUNISHED. THIS SHEET IS THE PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL INFORMATION. ANY REUSE, REPRODUCTION, OR DISSEMINATION OF THIS INFORMATION WITHOUT THE WRITTEN PERMISSION OF COMPAL ELECTRONICS, INC. IS STRICTLY PROHIBITED. ANY VIOLATION OF THIS POLICY WILL BE SEVERELY PUNISHED.				NOTES LIST	
Rev	Comp	Document Number	LA-M611P		Rev
Date	2025 September 30, 2022	Issue	3	of	132

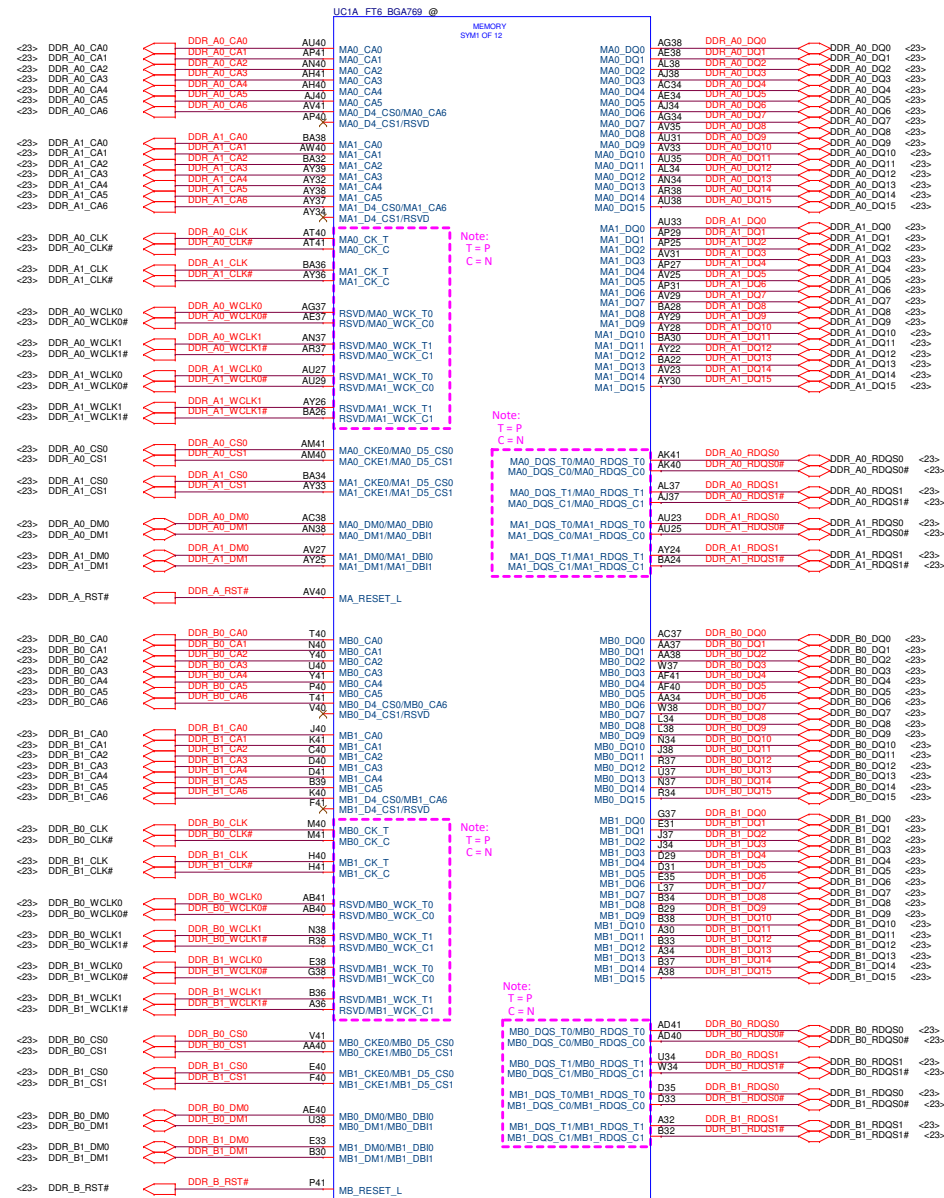
Power Sequence

→ →



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF COMPAL ELECTRONICS, INC.				Document Number	Power Sequence
				Class	LA-M611P
				Rev	1A

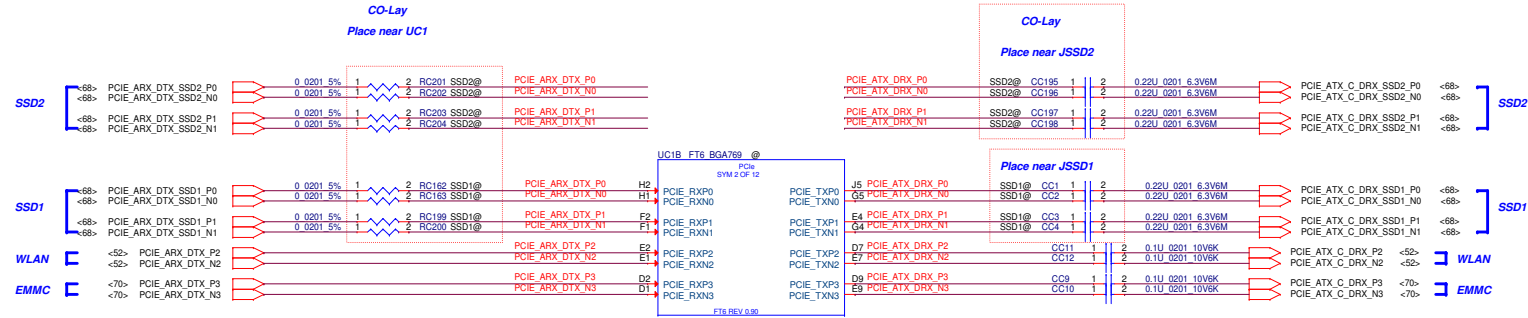
APU LPDDR5



Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	FT6 LPDDR5 MEM	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev	
				Custm	1A	
				Date:	Friday, September 02, 2022	Sheet 6 of 122

APU PCI-E

Note:
1.Aspire 15" / Travel mate 14" for SSD1
2.Travel mate 11.6" for SSD2



Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
				C	LA-M611P	1A
				Date:	Friday, September 02, 2022	Sheet 7 of 122

+1.8V_ALW
 RC2 1 2 10K 0402 5% USB_OC0W
 RC947 1 2 4.7K 0402 5% APU_USBC_SCL
 RC948 1 2 4.7K 0402 5% APU_USBC_SDA

[illegible][illegible]

Pin-to-pin connection diagram for the FT8 BGA769 package.

Pinout Table (BGA769):

Pin	Signal	Pin	Signal	Pin	Signal
1	BC11	2	1.98_0402_1	3	SMU_VDDP
4	APU_DP1_P0	5	APU_DP1_N0	6	APU_DP1_P1
7	APU_DP1_N1	8	APU_DP1_P2	9	APU_DP1_N2
10	APU_DP1_P3	11	APU_DP1_N3	12	EDP_AUXP
13	EDP_AUXN	14	EDP_HPD	15	EDP_HPD
16	APU_DP1_CTRL_CLK	17	APU_DP1_CTRL_DAT	18	APU_DP1_HPD
19	APU_DP2_CTRL_CLK	20	APU_DP2_CTRL_DAT	21	APU_DP2_HPD
22	ENBK1_R	23	ENBK1_N	24	ENBK1_P
25	ENBK2_R	26	ENBK2_N	27	ENBK2_P
28	ENBK3_R	29	ENBK3_N	30	ENBK3_P
31	ENBK4_R	32	ENBK4_N	33	ENBK4_P
34	ENBK5_R	35	ENBK5_N	36	ENBK5_P
37	ENBK6_R	38	ENBK6_N	39	ENBK6_P
40	ENBK7_R	41	ENBK7_N	42	ENBK7_P
43	ENBK8_R	44	ENBK8_N	45	ENBK8_P
46	ENBK9_R	47	ENBK9_N	48	ENBK9_P
49	ENBK10_R	50	ENBK10_N	51	ENBK10_P
52	ENBK11_R	53	ENBK11_N	54	ENBK11_P
55	ENBK12_R	56	ENBK12_N	57	ENBK12_P
58	ENBK13_R	59	ENBK13_N	60	ENBK13_P
61	ENBK14_R	62	ENBK14_N	63	ENBK14_P
64	ENBK15_R	65	ENBK15_N	66	ENBK15_P
67	ENBK16_R	68	ENBK16_N	69	ENBK16_P
70	ENBK17_R	71	ENBK17_N	72	ENBK17_P
73	ENBK18_R	74	ENBK18_N	75	ENBK18_P
76	ENBK19_R	77	ENBK19_N	78	ENBK19_P
79	ENBK20_R	80	ENBK20_N	81	ENBK20_P
82	ENBK21_R	83	ENBK21_N	84	ENBK21_P
85	ENBK22_R	86	ENBK22_N	87	ENBK22_P
88	ENBK23_R	89	ENBK23_N	90	ENBK23_P
91	ENBK24_R	92	ENBK24_N	93	ENBK24_P
94	ENBK25_R	95	ENBK25_N	96	ENBK25_P
97	ENBK26_R	98	ENBK26_N	99	ENBK26_P
100	ENBK27_R	101	ENBK27_N	102	ENBK27_P
103	ENBK28_R	104	ENBK28_N	105	ENBK28_P
106	ENBK29_R	107	ENBK29_N	108	ENBK29_P
109	ENBK30_R	110	ENBK30_N	111	ENBK30_P
112	ENBK31_R	113	ENBK31_N	114	ENBK31_P
115	ENBK32_R	116	ENBK32_N	117	ENBK32_P
118	ENBK33_R	119	ENBK33_N	120	ENBK33_P
121	ENBK34_R	122	ENBK34_N	123	ENBK34_P
124	ENBK35_R	125	ENBK35_N	126	ENBK35_P
127	ENBK36_R	128	ENBK36_N	129	ENBK36_P
130	ENBK37_R	131	ENBK37_N	132	ENBK37_P
133	ENBK38_R	134	ENBK38_N	135	ENBK38_P
136	ENBK39_R	137	ENBK39_N	138	ENBK39_P
139	ENBK40_R	140	ENBK40_N	141	ENBK40_P
142	ENBK41_R	143	ENBK41_N	144	ENBK41_P
145	ENBK42_R	146	ENBK42_N	147	ENBK42_P
148	ENBK43_R	149	ENBK43_N	150	ENBK43_P
151	ENBK44_R	152	ENBK44_N	153	ENBK44_P
154	ENBK45_R	155	ENBK45_N	156	ENBK45_P
157	ENBK46_R	158	ENBK46_N	159	ENBK46_P
160	ENBK47_R	161	ENBK47_N	162	ENBK47_P
163	ENBK48_R	164	ENBK48_N	165	ENBK48_P
166	ENBK49_R	167	ENBK49_N	168	ENBK49_P
169	ENBK50_R	170	ENBK50_N	171	ENBK50_P
172	ENBK51_R	173	ENBK51_N	174	ENBK51_P
175	ENBK52_R	176	ENBK52_N	177	ENBK52_P
178	ENBK53_R	179	ENBK53_N	180	ENBK53_P
181	ENBK54_R	182	ENBK54_N	183	ENBK54_P
184	ENBK55_R	185	ENBK55_N	186	ENBK55_P
187	ENBK56_R	188	ENBK56_N	189	ENBK56_P
190	ENBK57_R	191	ENBK57_N	192	ENBK57_P
193	ENBK58_R	194	ENBK58_N	195	ENBK58_P
196	ENBK59_R	197	ENBK59_N	198	ENBK59_P
199	ENBK60_R	200	ENBK60_N	201	ENBK60_P
202	ENBK61_R	203	ENBK6		

The schematic diagram illustrates the internal connections for the APU's USB and LAN ports. At the top, a block diagram shows the APU with two main controllers (Controller 0 and Controller 1) and two USB 3.0 expansion modules (Controller 2). Each controller is connected to a set of USB ports (0-5). The bottom part of the diagram provides a detailed view of the LAN and USB ports. It shows a USB 3.0 controller (LC78) connected to the APU_BT_ON_L pin, and a LAN controller (LC79) connected to the APU_LAN_WAKE# pin. The schematic also details the power supply for the LAN ports, including a +1.8V_LAN supply and a +3V_LAN supply, and the connection to the APU_LAN_WAKE# pin.

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	FT6 DISP/USB
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED OUTSIDE OF THE COMPETENT DIVISION OF RESEARCH AND DEVELOPMENT DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev 1A
				Customer	LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	8 of 122

+1.8V_LVCMOS

RC31 1 2 10K 0402 5% PBTN_OUT#

RC178 1 2 2.2K 0402 5% SDA3_GPIO

RC195 1 2 10K 0402 5% APD_PCIE_WAKE#

+1.8V_LVCMOS

RC24 1 2 10K 0402 5% EC_SCI#

RC25 1 2 10K 0402 5% EC_SCI#

[illegible][illegible][illegible]

Legend:

- ASP0381 Aspire/Travel Mate Board ID
- ASP0384 APU 15W6W Board ID
- EDP0142 <1> Audio chip ID
- ASP0385 Platform Ryzen/Athlon type Board ID

(MEM_ID4 or RYZEN 5 APU and SSD RST Time control)
for AGPIO5 Reserved Select to use

APU STRAPS

ESD part close APU

[illegible]

Security Classification	Compul Secret Data	Compul Electronics, Inc.	
Issued Date	2022/04/26	Deciphered Date	2024/04/26
THIS SHEET OF INGRESS/EGRESS/OWNERS OF COMPUL ELECTRONICS, INC. AND CONTAINING CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED FROM THE OFFICE OF THE COMPTON DIVISION OF FBI TO ANY OTHER AGENCY OR INDIVIDUAL WITHOUT THE WRITTEN CONSENT OF COMPUL ELECTRONICS, INC. IT IS THE POLICY OF COMPUL ELECTRONICS, INC. TO PROTECT THE INFORMATION CONTAINED HEREIN FROM BEING DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPUL ELECTRONICS, INC.		Site	FT6 HDA ACPI GPIO
		Doc Number	LA-M61P1
		Rev	1

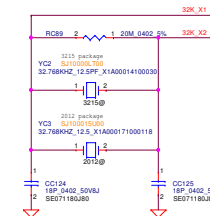
The schematic diagram illustrates the power supply configuration for the STM32MP137. It features three main power rails: +3VS, +1.8VS, and +1.8VALW. The +3VS rail is connected to the 3V3 pin of the STM32MP137 and provides power to the CLKREQ_BSDH, CLKREQ_WLANP, and CLKREQ_MMIOF pins. The +1.8VS rail is connected to the 1V8 pin and provides power to the APU_12C_1_BGL, APU_12C_1_BDA, ESPI_DATA_7, ESPI_DATA_8, ESPI_DATA_9, ESPI_DATA_10, ESPI_DATA_11, and ESPI_DATA_12 pins. The +1.8VALW rail is connected to the 1V8 pin and provides power to the ESPI_CS#_R, KBRST#_R, ESPI_ALERT#_R, TPM_SPI_CS#, ACCEL_INT, TDF_INT#, and the 1V8 pin itself. The diagram also shows the internal connections of the STM32MP137, including the 3V3, 1V8, and 1V8 pins, and the 3V3, 1V8, and 1V8 pins of the STM32MP137.

[illegible]

The schematic diagram illustrates a power supply circuit with several key components:

- Rectifier Bridge:** A bridge rectifier consisting of four diodes labeled RC72, RC73, RC74, and RC75.
- Resistors:** Two resistors are shown: R62 (10k) and R63 (10k).
- Capacitors:** Two electrolytic capacitors are present: CC121 (8.2µF 50VBC) and CC122 (8.2µF 50VBC).
- Transformer:** A transformer symbol is located in the center of the circuit.
- EMI Filter:** A dashed red box highlights the EMI filter section, which includes the two capacitors (CC121, CC122) and the two resistors (R62, R63).
- Power Connections:** The circuit is connected to a 480V AC source at both input and output.

Co-lay Small Package 32.768KHz



WSON 32MB for Travel mat

CO-Lay

[illegible]

The diagram illustrates the timing for SPI ROM read and write operations. It shows two scenarios: a read operation and a write operation, both initiated by the master (M) and completed by the slave (S).

Read Operation (Top):

- The master (M) sends a read command (RCMD) to the slave (S).
- The slave (S) responds with data (DOUT) from the SPI ROM.
- The master (M) receives the data (DIN) from the slave (S).
- The master (M) sends a read command (RCMD) to the slave (S).
- The slave (S) responds with data (DOUT) from the SPI ROM.
- The master (M) receives the data (DIN) from the slave (S).

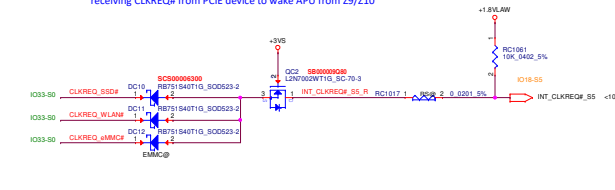
Write Operation (Bottom):

- The master (M) sends a write command (RCMD) to the slave (S).
- The slave (S) responds with data (DOUT) from the SPI ROM.
- The master (M) receives the data (DIN) from the slave (S).
- The master (M) sends a write command (RCMD) to the slave (S).
- The slave (S) responds with data (DOUT) from the SPI ROM.
- The master (M) receives the data (DIN) from the slave (S).

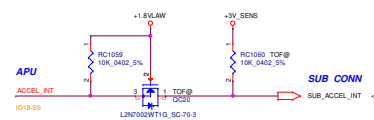
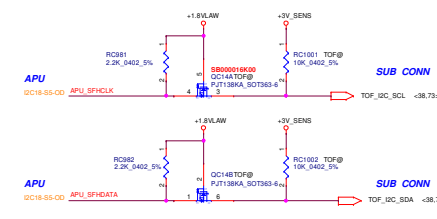
The diagram also shows the timing for the SPI ROM read and write operations, with the master (M) sending a read command (RCMD) to the slave (S) and the slave (S) responding with data (DOUT) from the SPI ROM.

The top diagram shows the connection for the I2C/SCL signal. The APU's I2C18-SCL pin is connected to the SCL pin (pin 3) of the ADXL345 sensor. A 2.2K pull-up resistor is connected between the SCL pin and the +1.8V supply. A 100nF capacitor is connected between the SCL pin and ground. The ADXL345 sensor is also connected to the +1.8V supply and ground. The bottom diagram shows the connection for the I2C/SDA signal. The APU's I2C18-SDA pin is connected to the SDA pin (pin 4) of the ADXL345 sensor. A 2.2K pull-up resistor is connected between the SDA pin and the +1.8V supply. A 100nF capacitor is connected between the SDA pin and ground. The ADXL345 sensor is also connected to the +1.8V supply and ground.

receiving CLKREQ# from PCIE device to wake APU from Z9/Z10

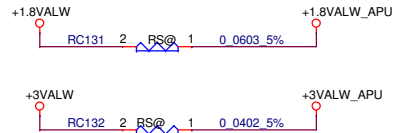


The figure contains two circuit diagrams. The top diagram is for the APU sensor, showing a +1.8V_Sense supply connected to a network of resistors (RC1030, RC1040, RC1050) and capacitors (C1030, C1040, C1050). The output is TSP_GPO. The bottom diagram is for the MB G-Sense sensor, showing a +1.8V_LAN supply connected to a similar network of resistors and capacitors. The output is GSEN_N. Both diagrams include a +3V_Sense supply and a TSP_GPO output.

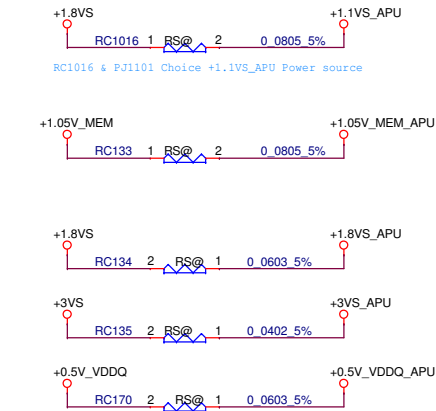


Security Classification	Compasal Secret Data		Title	Compal Electronics, Inc.	
Issued Date	2025/4/26	Deciphered Date	2024/04/26	FT6_CLK/UART/SP/PS/PI/2C	
<p>THIS SHEET OF ENGINEERING DRAWINGS IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D TO ANY OTHER DIVISION OR TO ANY PERSONS UNLESS AUTHORIZED BY CIRCULAR LETTERS. IF THE INFORMATION ON THIS SHEET IS DISCLOSED TO ANY PERSONS OR BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</p>				Rev	Document Number
				LA-M611P	
				Date	Friday, September 28, 2024
				Sheet	11 of 124

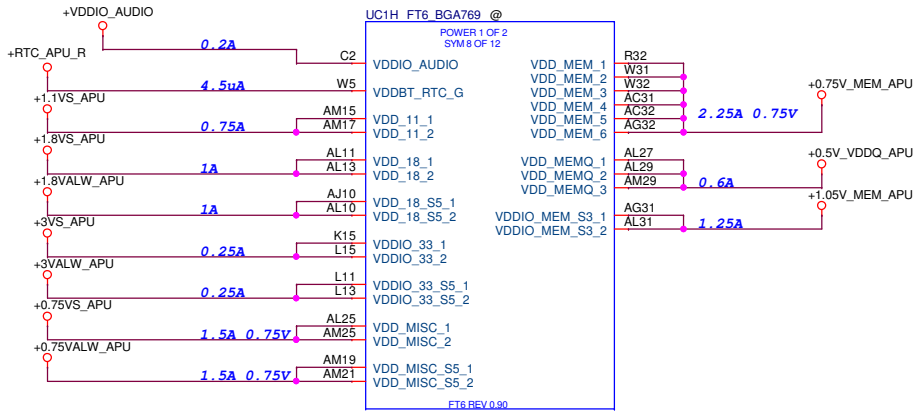
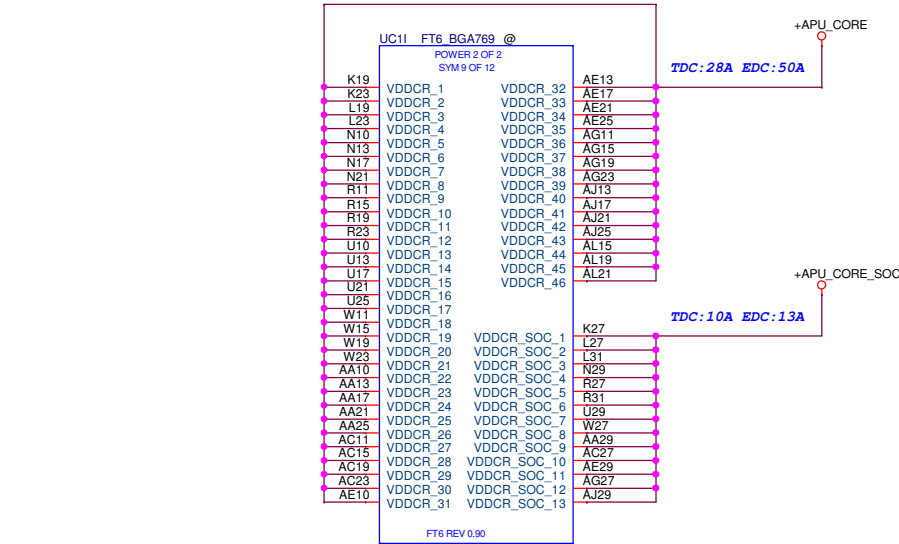
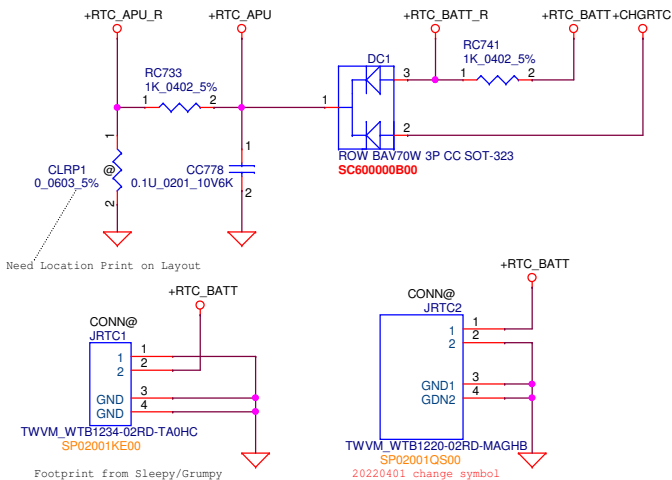
S5 Power Routing



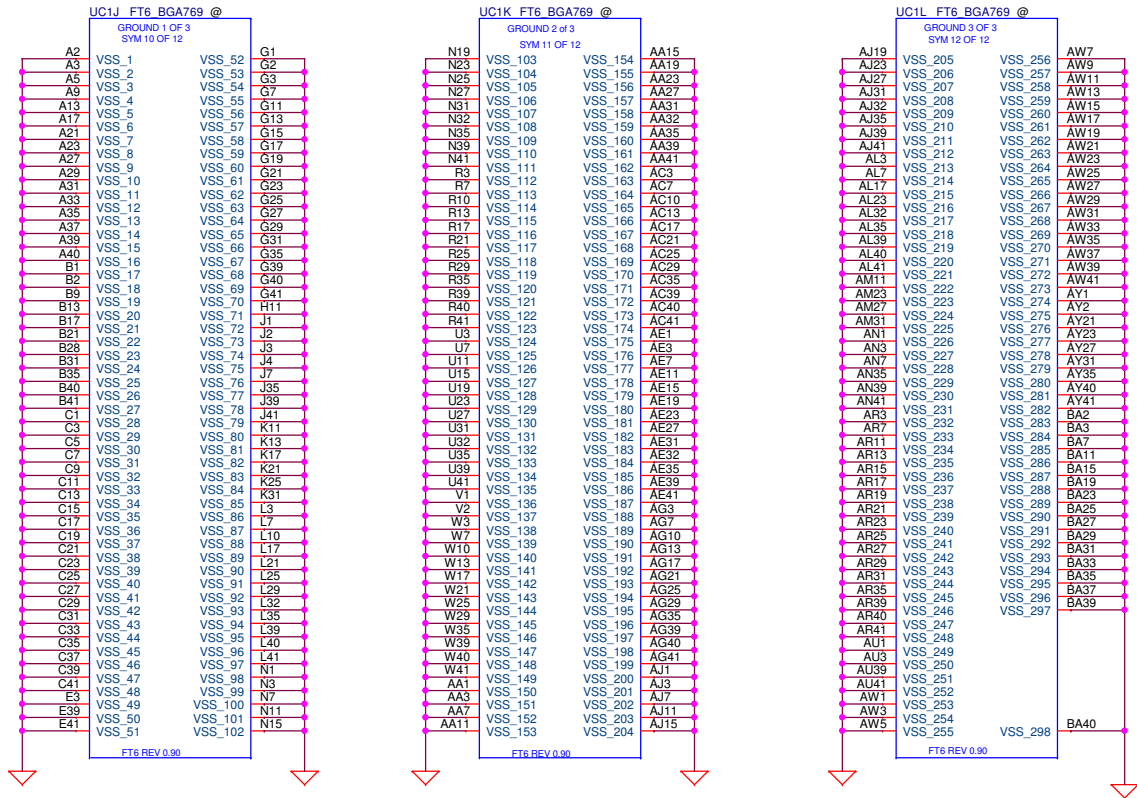
S0 Power Routing



RTC Power Routing



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.		Document Number		Rev	
		LA-M611P		1A	
Date:		Friday, September 02, 2022		Sheet 12 of 122	



Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title FP5 GND	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	15 of 122
				Rev	1A

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	16 of 122
				Rev	1A

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	17 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 18 of 122	

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 19 of 122	

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	20 of 122

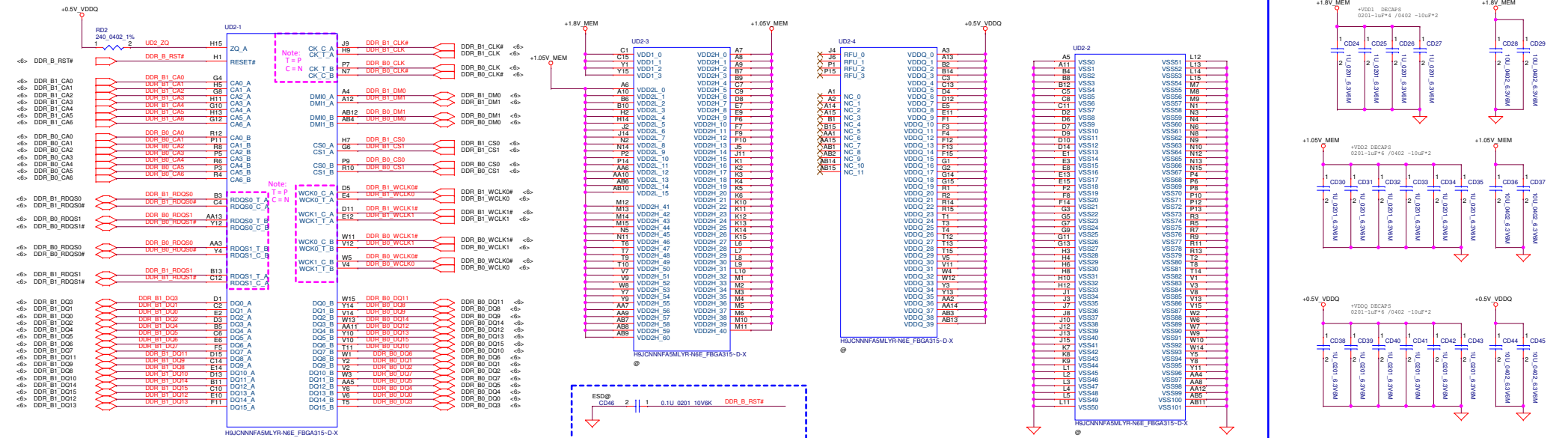
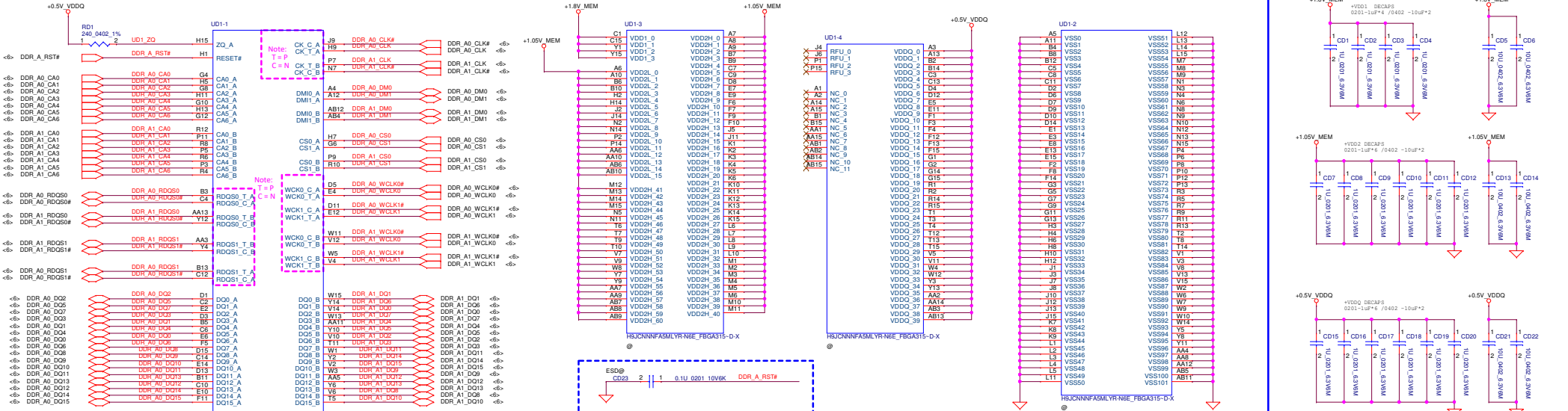
Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 21 of 122	

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	22 of 122
				Rev	1A

Memory A



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date		2022/4/26	Deciphered Date	2024/04/26	Title
<p>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE REPRODUCED FROM THE CUSTODY OF THE COMPETENT DIVISION OF GRAF DEPARTMENT EXCEPT BY AUTHORITY OF COMPAL ELECTRONICS, INC. NOR THE INFORMATION ON THIS SHEET MAY BE USED OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</p>				<p>LPDD5 SDRAM</p>	
Size				Doc Number	
				LA-M611P	
				Rev 1A	

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	LPDD5 SDRAM1
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				Date:	Friday, September 02, 2022
				Sheet	24 of 122
				Rev	1A
				LA-M611P	

LPDDR5 Sequence

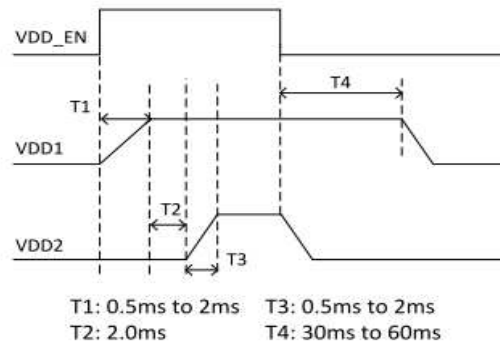


Figure 7-2. Power Sequence, VDD1 and VDD2 vs VDD_EN

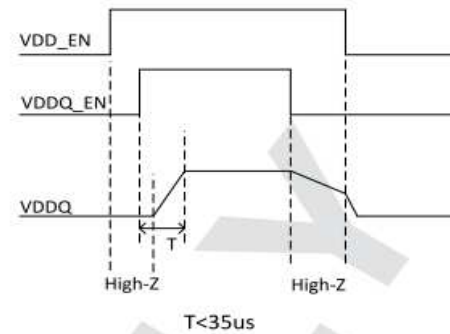


Figure 7-3. Power Sequence, VDDQ vs VDDQ_EN

	+1.8V_MEM	+1.05V_MEM	+0.5V_VDDQ
LPDDR5	VDD1	VDD2	VDDQ
Power State at S3	ON	ON	OFF

	+1.8V_MEM	+1.05V_MEM	+0.5V_VDDQ
FT6 APU	NA	VDDIO_MEM_S3	VDD_MEMQ_S3
Power State at S3	NA	ON	ON

Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	LPDDR5_Sequence
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					Rev 1A
Size	Document Number			LA-M611P	
Date:	Friday, September 02, 2022			Sheet	25 of 122



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	26 of 122
				Rev	1A

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 27 of 122	

Reserve Page

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size B	Document Number LA-M611P	Rev 1A
				Date: Friday, September 02, 2022	Sheet 28	of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
				Size	Document Number
				Custom	LA-M611P
Date:		Friday, September 02, 2022		Sheet	29 of 122
				Rev	1A

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	30 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 31 of 122	

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	32 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	33 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	34 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 35 of 122	

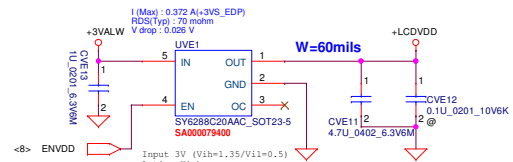
Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	36 of 122

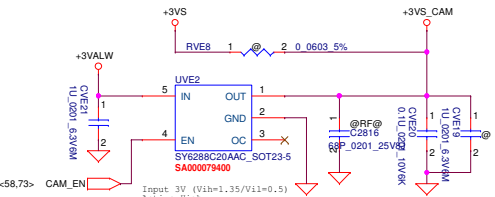
Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	37 of 122

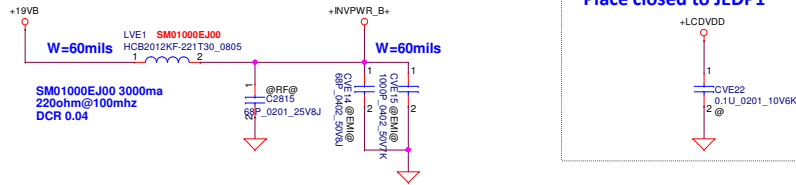
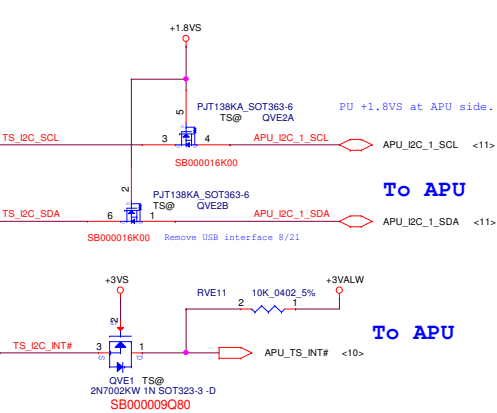
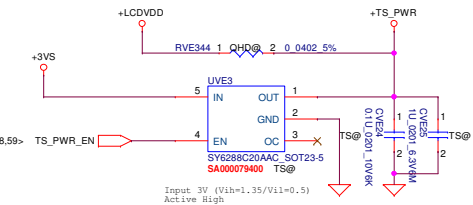
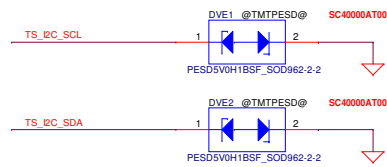
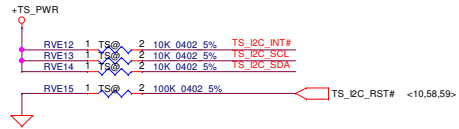
LCD POWER CIRCUIT



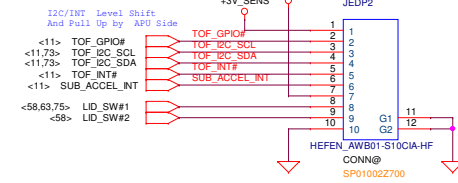
Camera POWER CIRCUIT



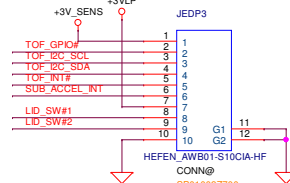
Touch Screen



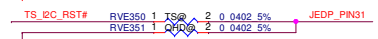
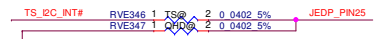
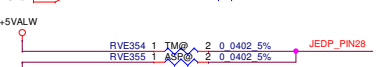
TOF Conn.



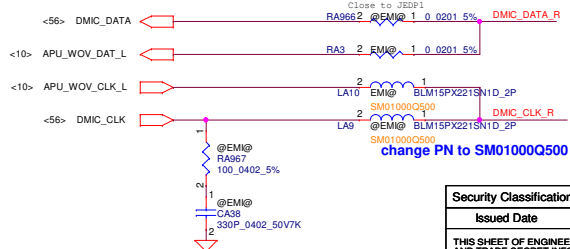
TOF Conn.



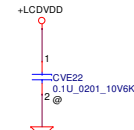
Travelmate colay



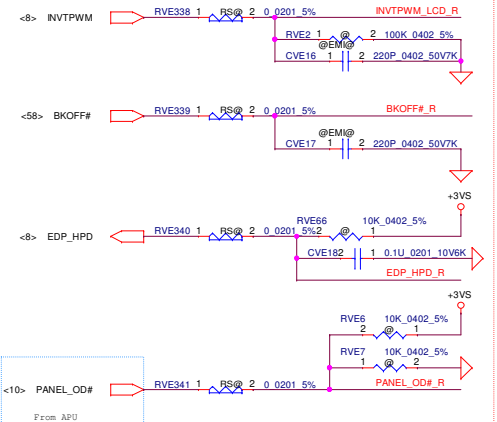
DMIC



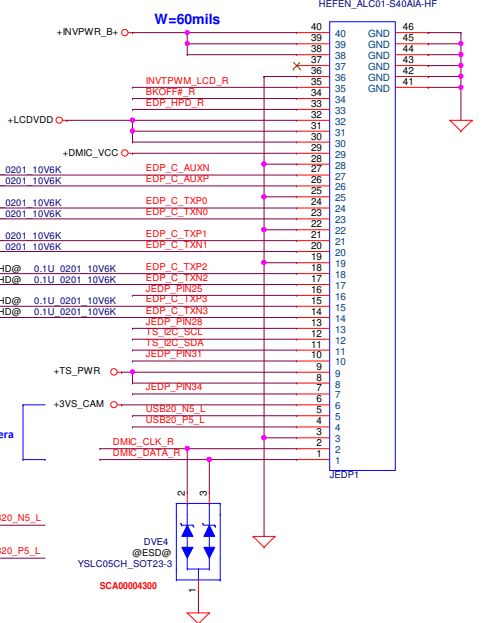
Place closed to JEDP1



LCD enable signal



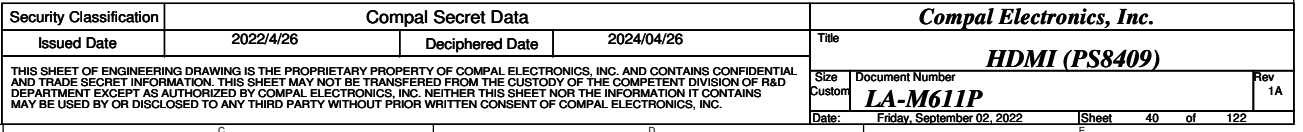
LED PANEL Conn.



Security Classification	Compal Secret Data			Compal Electronics, Inc. eDP/CAMERA		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
				Custom	LA-M611P	1A
				Date:	Friday, September 02, 2022	Sheet 36 of 122

Reserve Page

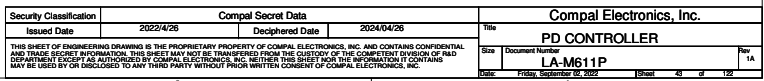
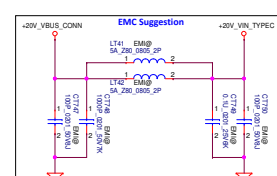
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	39 of 122
				Rev	1A



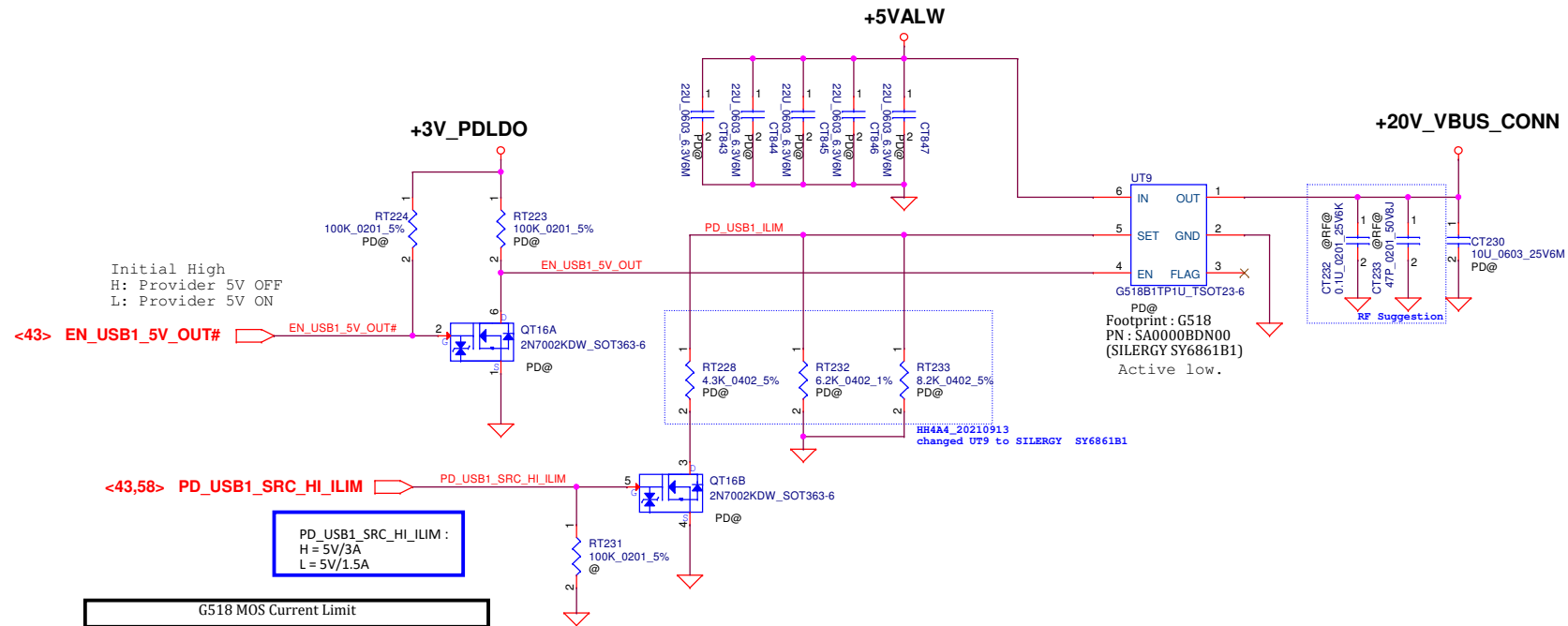
Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 41 of 122	

Security Classification		Compel Secret Data		Compel Electronics, Inc.	
Issued Date		Declassified Date		Title	
2022/4/26		2024/4/26		Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPEL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE REPRODUCED FROM THE CUSTODY OF THE COMPETITIVE DIVISION OF NRO. ANY REUSE OR DISSEMINATION OF THIS INFORMATION TO ANY OTHER PERSON OR ENTITY IS PROHIBITED. ANY VIOLATION OF THIS POLICY MAY BE SUBJECT TO DISCIPLINARY ACTION, INCLUDING TERMINATION OF EMPLOYMENT AND PROSECUTION UNDER APPLICABLE LAWS.				See	
				Document Number	
				LA-M611P	
				Rev	
				1A	
Date: Friday, September 24, 2022				Sheet 42 of 122	



MB_USB3.1 TypeC Conn. (Power Path) - For Realtek 5452E



G518 MOS Current Limit				
GPP_B1 (TYPEC_1P5A)	GPP_B4 (TYPEC_3A)	RSET(kΩ)	MODE	limit point
L	L	6.2	0.9A	1.09A
L	H	3.53	1.5A	1.92A
H	L	2.54	2A	2.67A
*H	H	1.94	3A	3.5A

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	45 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	46 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	47 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	48 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	49 of 122
				Rev	1A

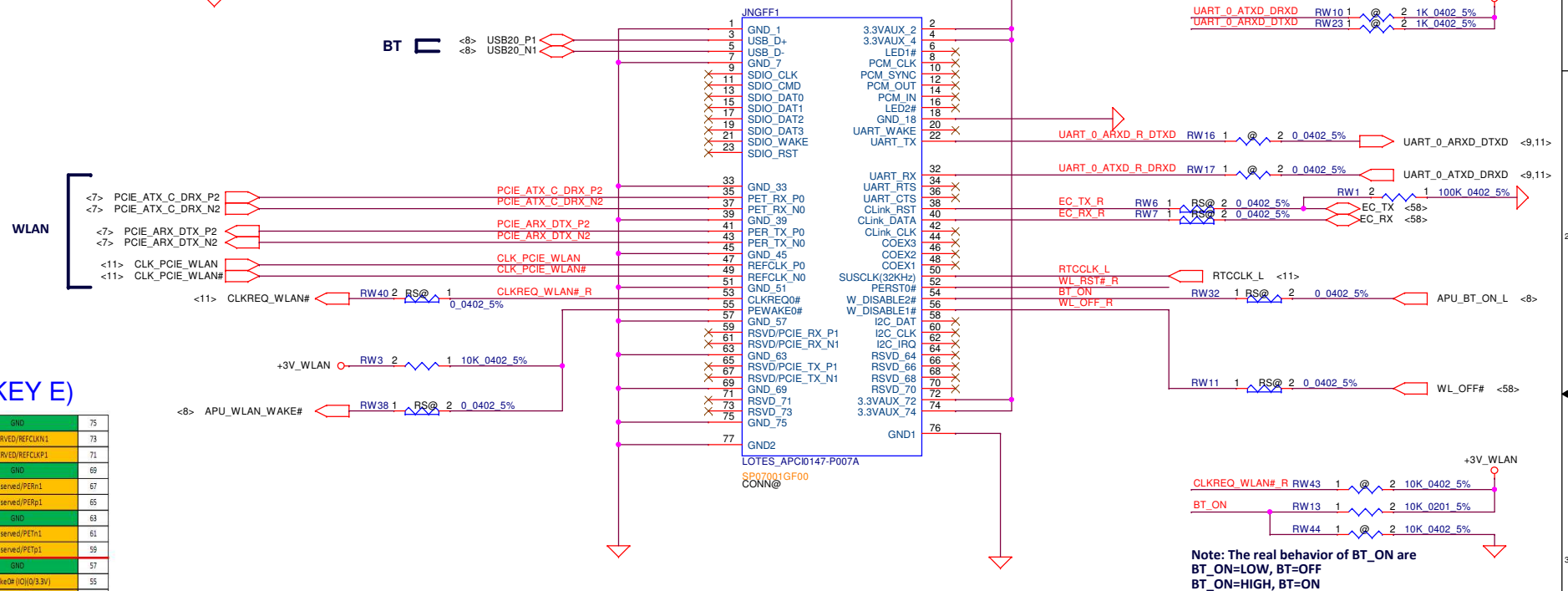
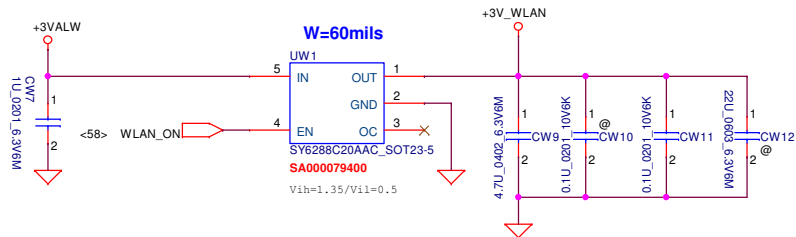
Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	50 of 122

Reserve Page

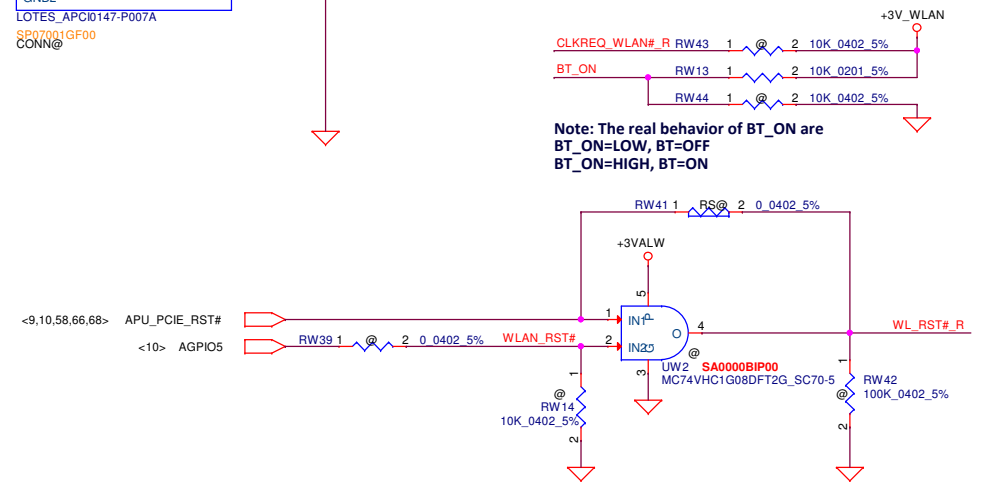
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	51 of 122

WLAN / BT Power Gate



NGFF WL+BT (KEY E)

74	3.0V	GND	75
72	3.0V	RESERVED/REFCLK1	73
70	UM_Power_SMC/GPIO/PEWake1p	RESERVED/REFCLK1	71
68	UM_Power_SMC/CLKREQ1p	GND	69
66	UM_SWP/PERST1p	Reserved/PER1p	67
64	RESERVED	Reserved/PER1p	65
62	ALERTn (I/O/3.3V)	GND	63
60	QCC CLK (I/O/3.3V)	Reserved/PET1n	61
58	QCC DATA (I/O/3.3V)	Reserved/PET1p	59
56	W_DISABLE1n (I/O/3.3V)	GND	57
54	Reserved/W_DISABLE2n (I/O/3.3V)	PEWakeDr (I/O/3.3V)	55
52	PERST0n (I/O/3.3V)	CLKREQDr (I/O/3.3V)	53
50	SUSCLK(32MHz) (I/O/3.3V)	GND	51
48	COEX1n (I/O/1.8V)	REFCLKPO	49
46	COEX2n (I/O/1.8V)	REFCLKPO	47
44	COEX3n (I/O/1.8V)	GND	45
42	VENDOR DEFINED	PER1n	43
40	VENDOR DEFINED	PER1p	41
38	VENDOR DEFINED	PET1n	39
36	UART RTS (I/O/1.8V)	PET1p	37
34	UART CTS (I/O/1.8V)	GND	35
32	UART Tx (I/O/1.8V)	GND	33
30	UART Rx (I/O/1.8V)	SDIO Resetn (I/O/1.8V)	29
28	UART Rx (I/O/1.8V)	SDIO Wakeup (I/O/1.8V)	27
26	UART Wakeup (I/O/3.3V)	SDIO DATA0n (I/O/1.8V)	25
24	GND	SDIO DATA0p (I/O/1.8V)	23
22	LED1n (I/DCO)	SDIO DATA1n (I/O/1.8V)	21
20	PCMC_OUT/IO25 SD_OUT (I/O/1.8V)	SDIO DATA1p (I/O/1.8V)	19
18	GND	SDIO DATA2n (I/O/1.8V)	17
16	PCMC_IN/IO25 SD_IN (I/O/1.8V)	SDIO DATA2p (I/O/1.8V)	15
14	PCMC_IN/IO25 SD_W (I/O/1.8V)	SDIO CMD0n (I/O/1.8V)	13
12	PCMC_IN/IO25 SD_CS (I/O/1.8V)	SDIO CMD0p (I/O/1.8V)	11
10	PCMC_IN/IO25 W (I/O/1.8V)	SDIO CLK0n (I/O/1.8V)	9
8	PCMC_IN/IO25 SCK (I/O/1.8V)	GND	7
6	LED1p (I/DCO)	GND	5
4	3.0V	USB_D-	3
2	3.0V	USB_D+	1



Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title WLAN/BT		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
					LA-M611P	1A
				Date:	Friday, September 02, 2022	Sheet 52 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	53 of 122

Reserve Page

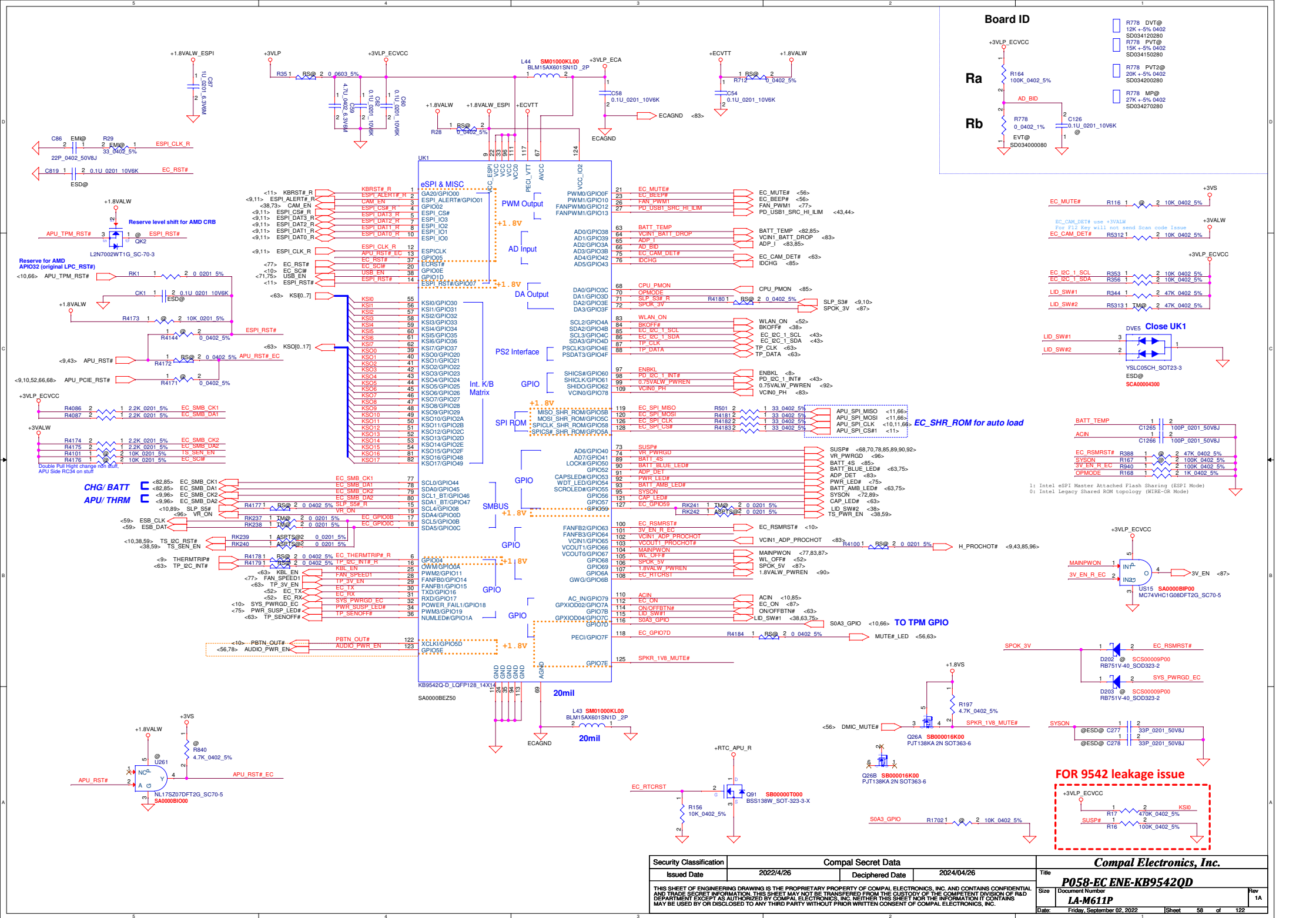
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	54 of 122

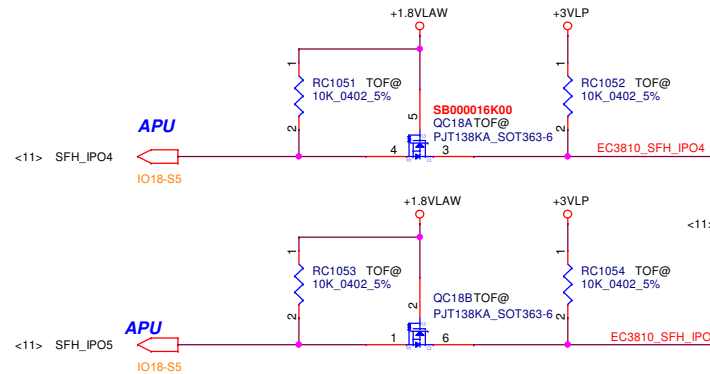
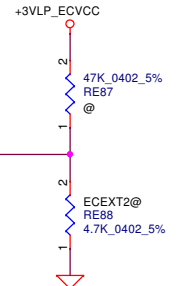
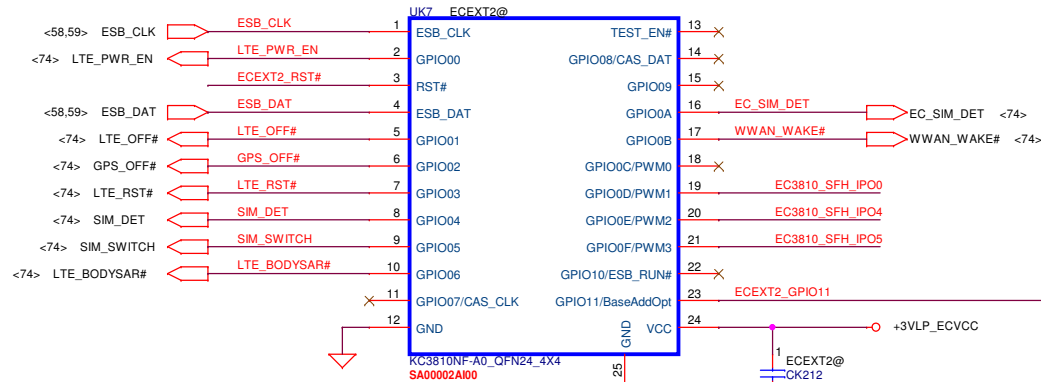
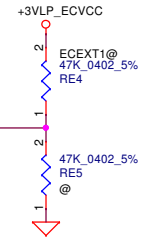
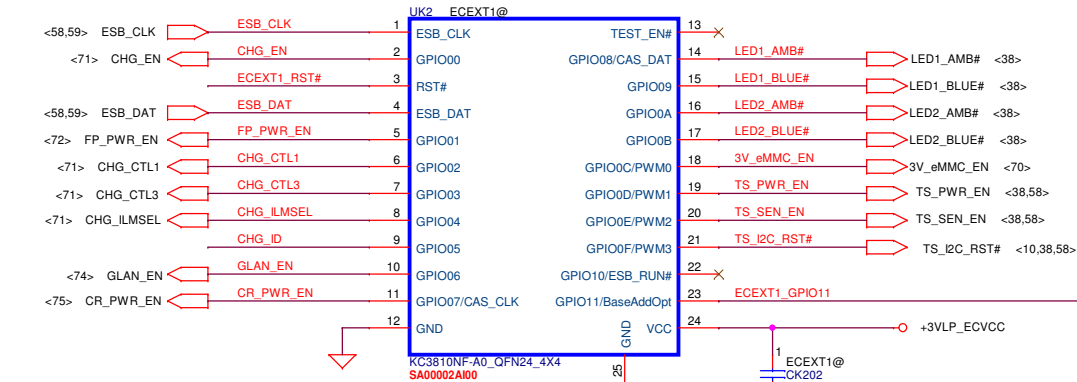
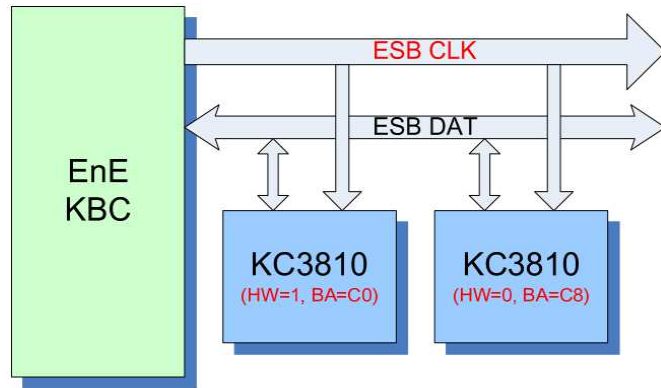
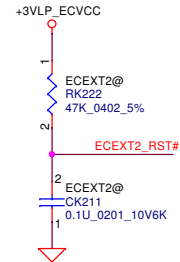
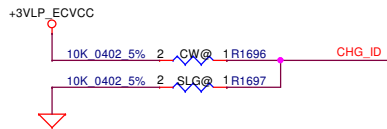
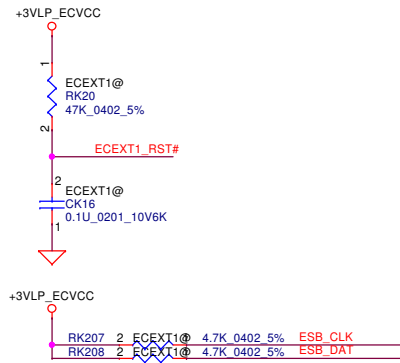
Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	55 of 122
				Rev	1A

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	57 of 122





Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	EC EXT IO
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Custom
				Document Number	LA-M611P
				Date	Friday, September 02, 2022
				Sheet	59 of 122
				Rev	1A

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 60 of 122	

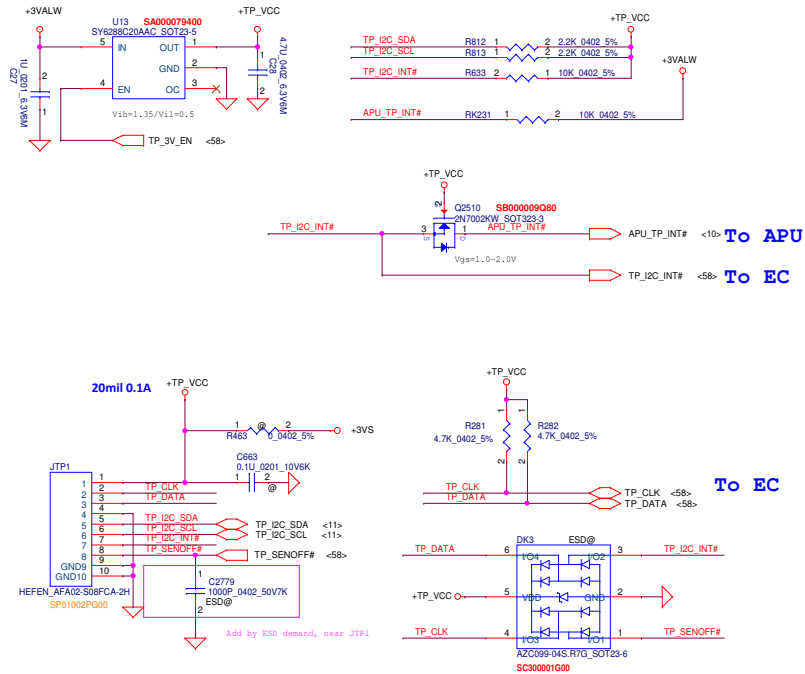
Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
				Size	Document Number
				Custom	LA-M611P
Date:		Friday, September 02, 2022		Sheet	61 of 122
				Rev	1A

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
Size		Document Number			Rev
Custom		LA-M611P			1A
Date:		Friday, September 02, 2022		Sheet	62 of 122

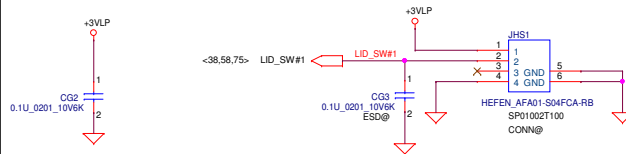
Touch Pad



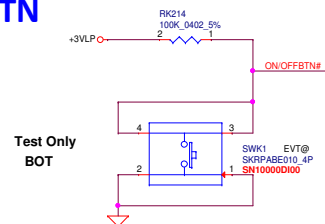
Touch Pen

20220330 move to Sub/B

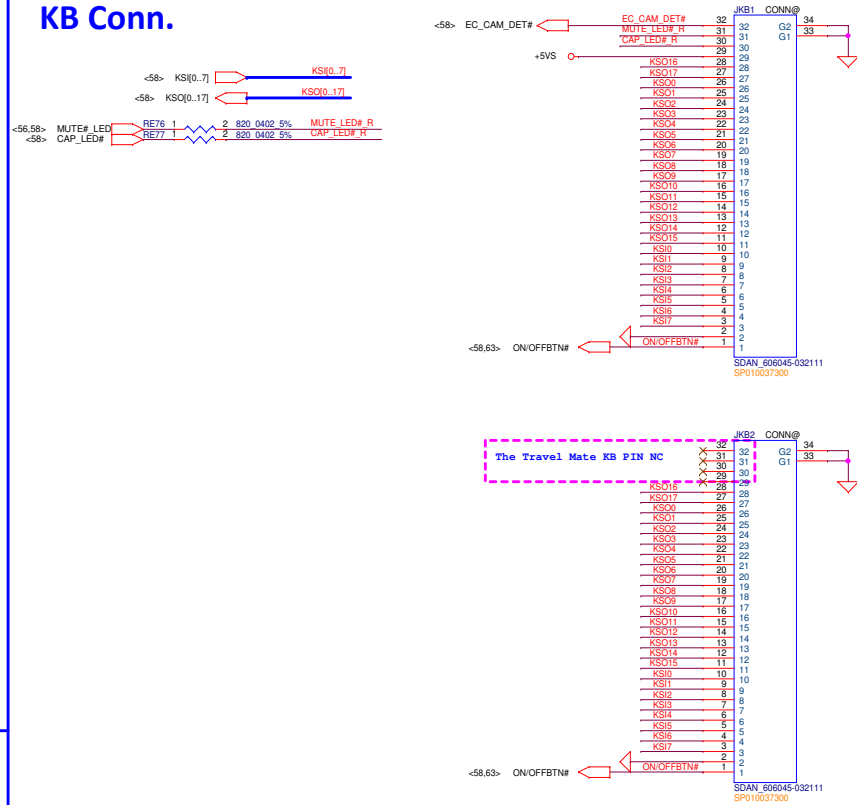
Lid Switch (Hall Effect Switch)



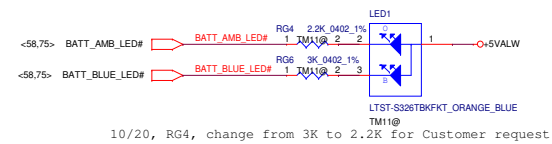
ON/OFF BTN



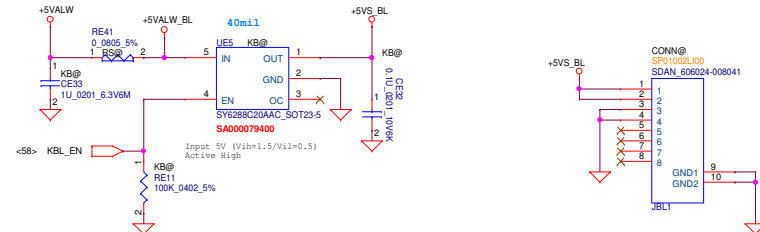
KB Conn.



For Travelmate11 BATT LED



KB BL Conn.



Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	User Interface	
<p>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.</p>				Size	Document Number	Rev
				C	LA-M611P	1A
				Date	Edgim, Sanching, 07/20/2022	Sheet 03 of 100

Reserve Page

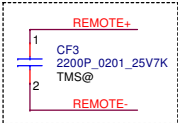
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 64 of 122	

Reserve Page

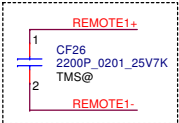
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 65 of 122	

Thermal Sensor

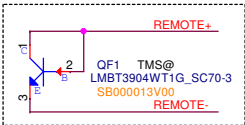
Close to UF1



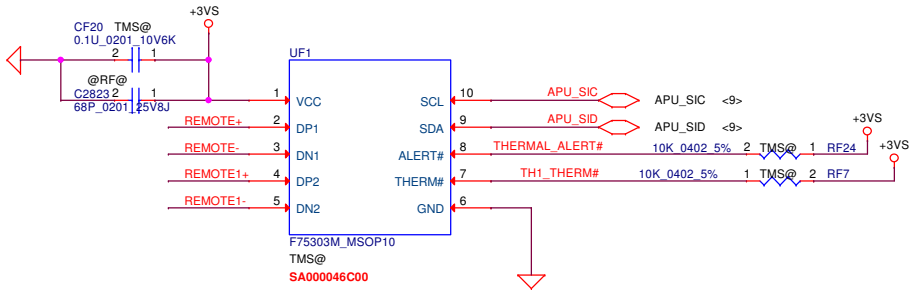
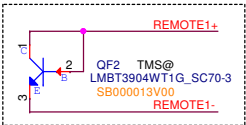
Close to UF1



Close to APU Choke



Close to PH204

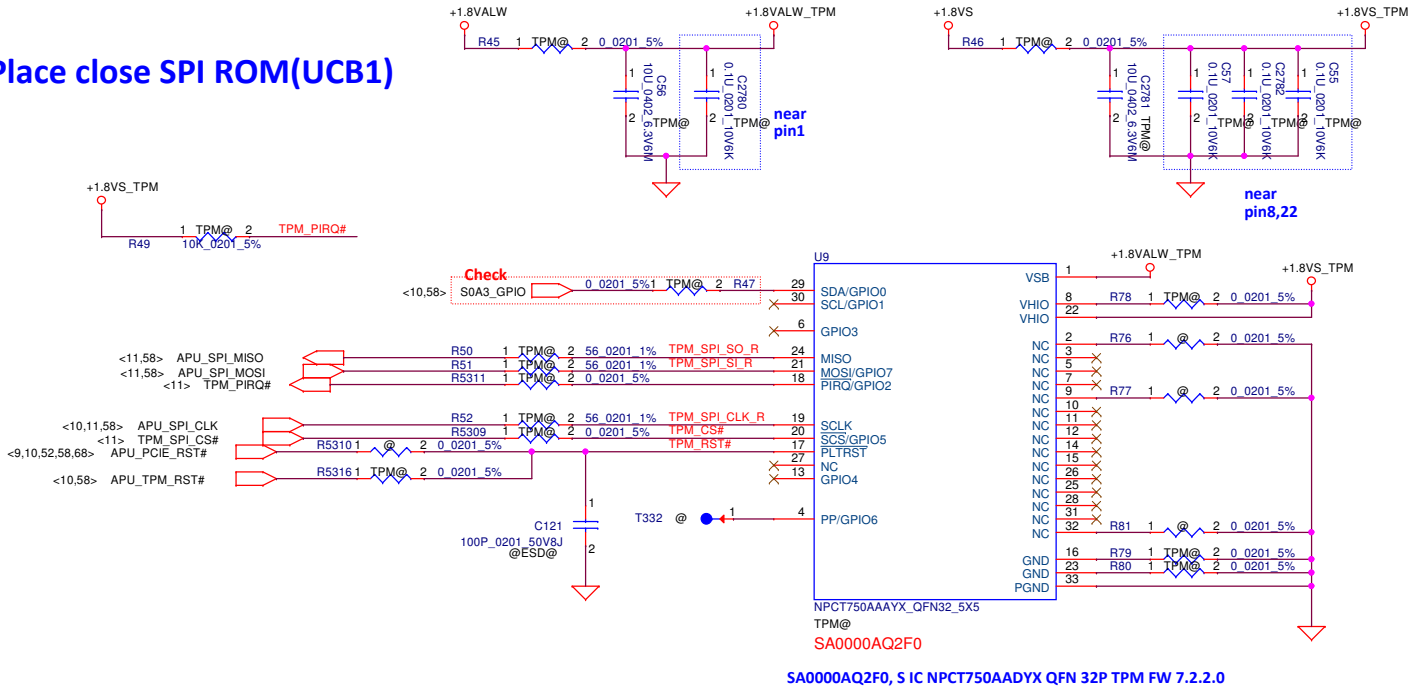


Part Number	SMBus Address
F75303M	1001_101xb

REMOTE1,2 (+/-) :
Trace length: <8"



TPM
Need to Place close SPI ROM(UCB1)



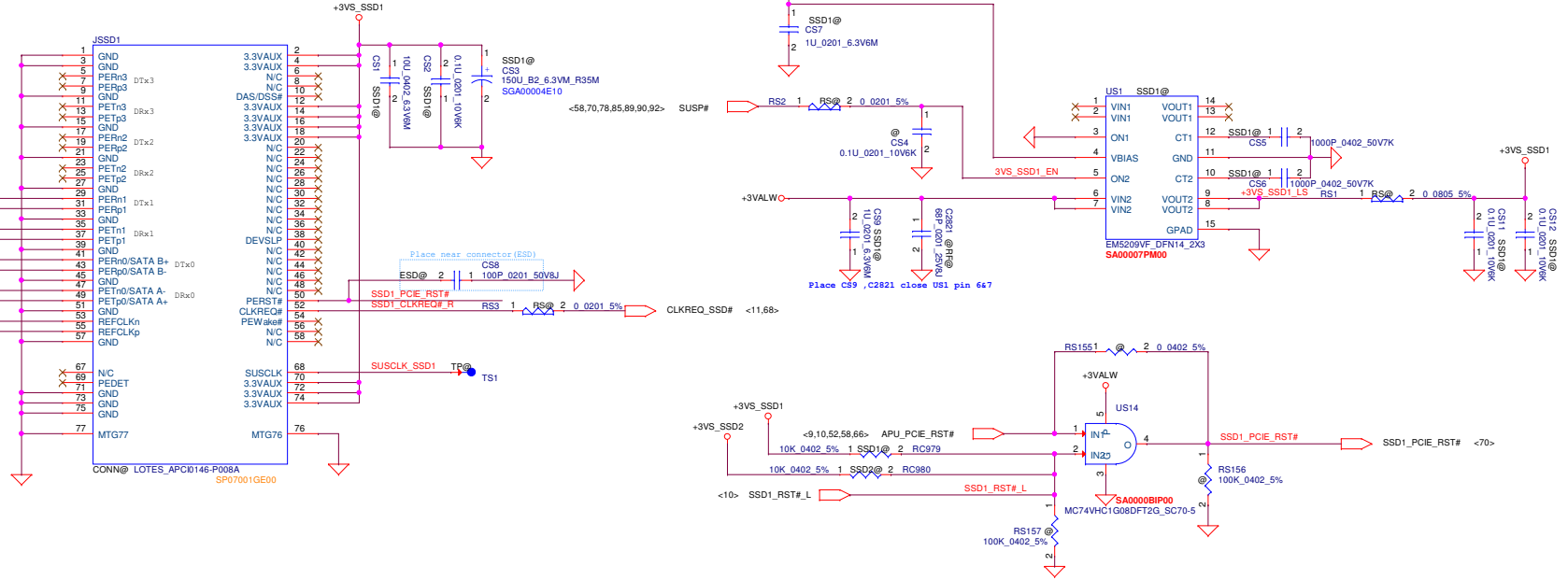
Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				THM/TPM
Size	Document Number	LA-M611P		Rev
Custom				1A
Date:	Friday, September 02, 2022	Sheet	66	of 122

Reserve Page

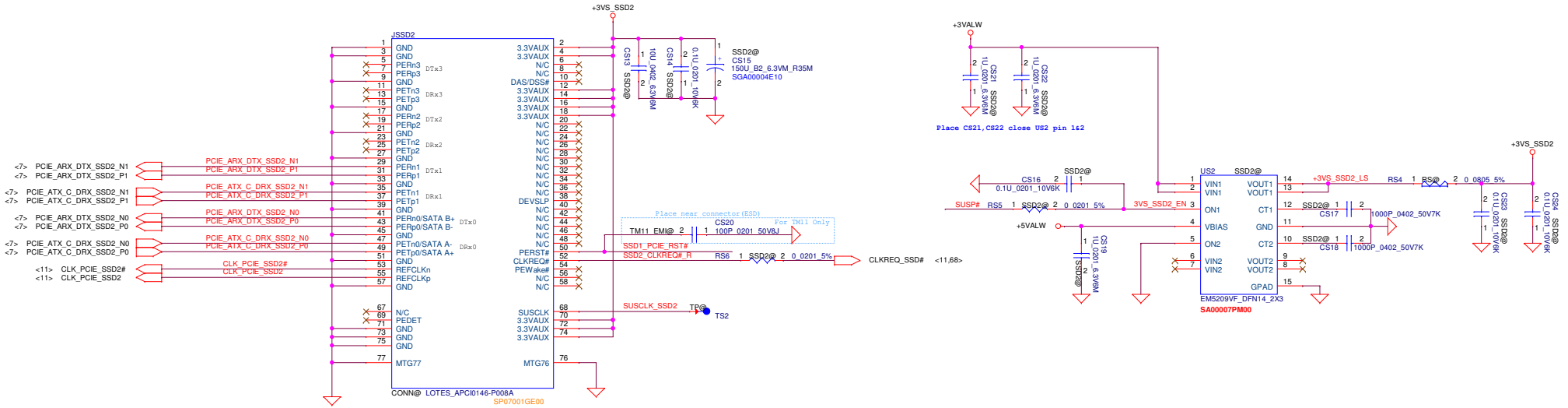
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
				Size	Document Number
				Custom	LA-M611P
Date:		Friday, September 02, 2022		Sheet	67 of 122
				Rev	1A

PCIEx2 NGFF SSD Conn

Power source
> +3VS_SSD1 : JSSD1
> +3VS_SSD2 : JSSD2



PCIEx2 NGFF SSD Conn

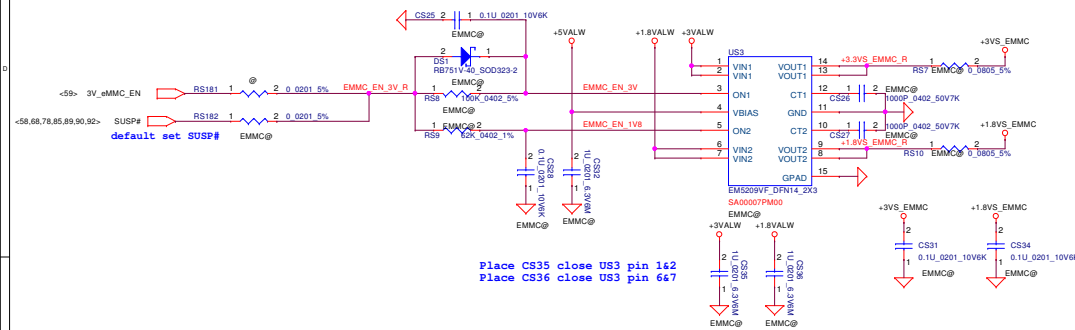


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	M.2 SSD
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
					LA-M611P
				Date	Friday, September 02, 2022
				Sheet	68 of 122

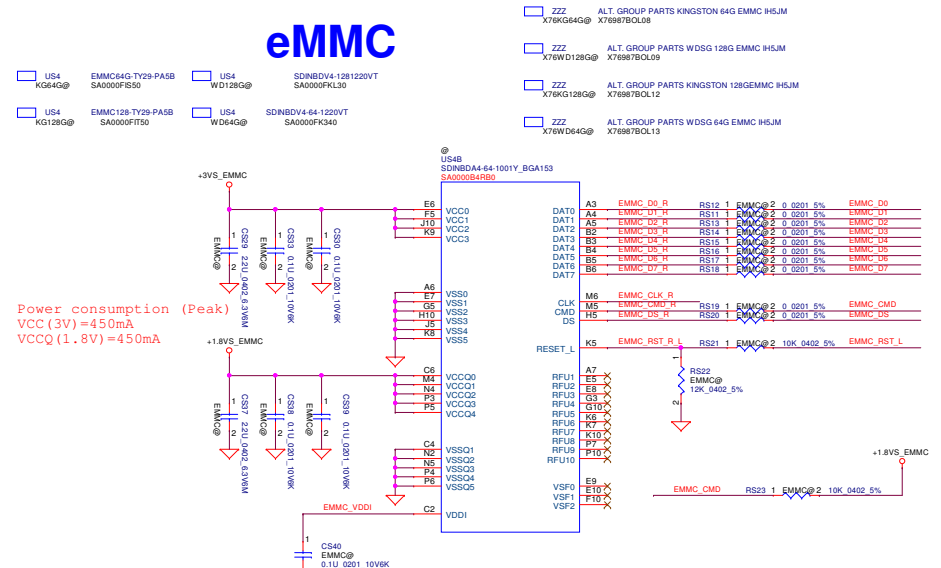
Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserve	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	69 of 122
				Rev	1A

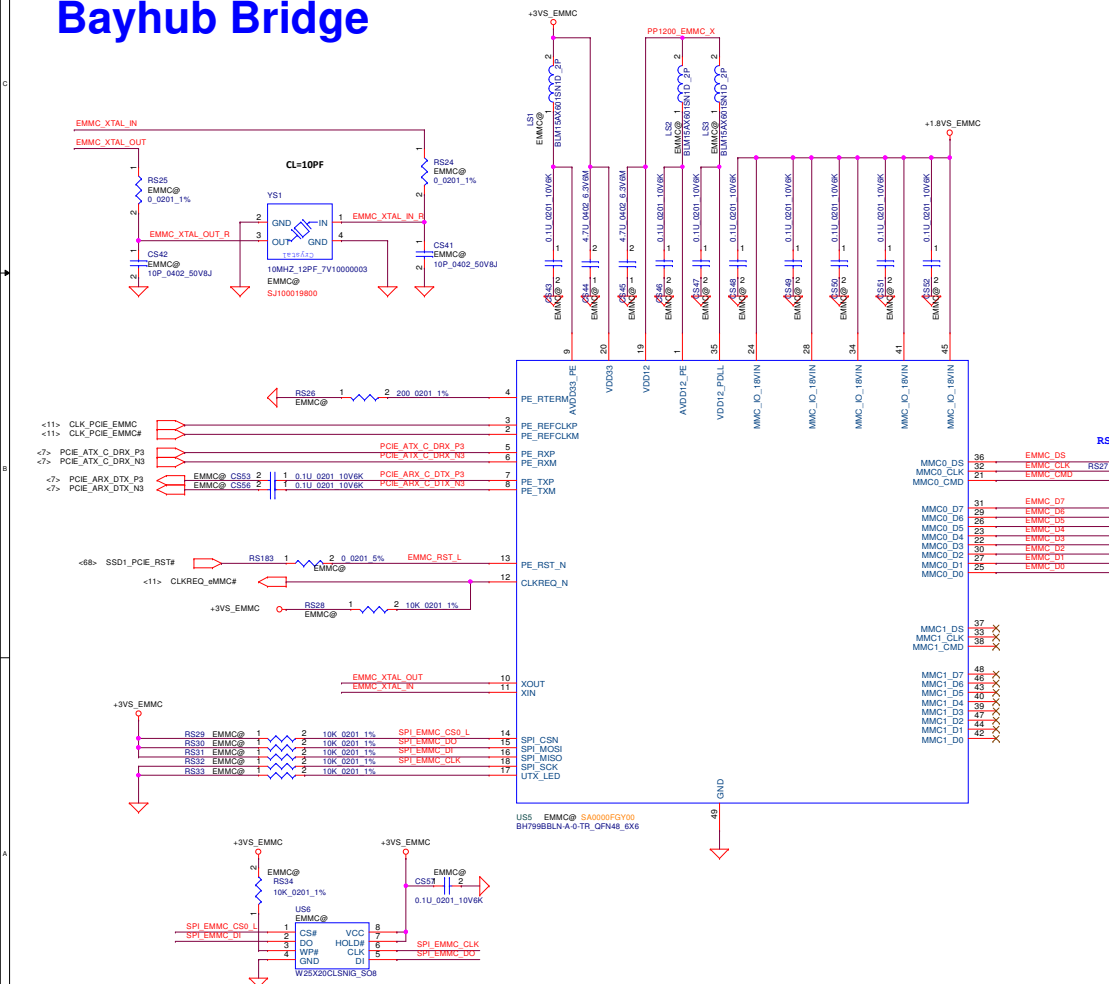
Power Switch



eMMC

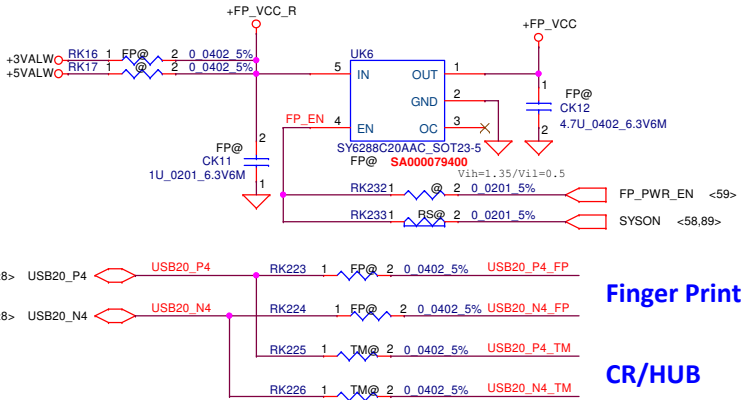


Bayhub Bridge



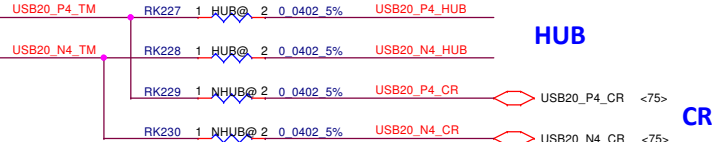
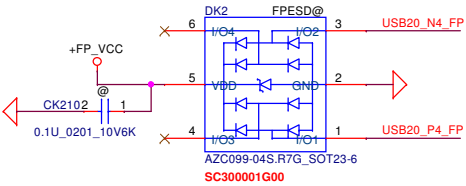
Finger Print

Power Source Check
EGIS ETU801 +FP_VCC=5V
ELAN SA464K-2200 +FP_VCC=3.3V



Finger Print

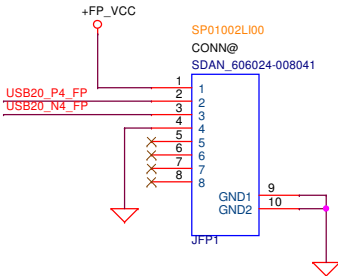
CR/HUB



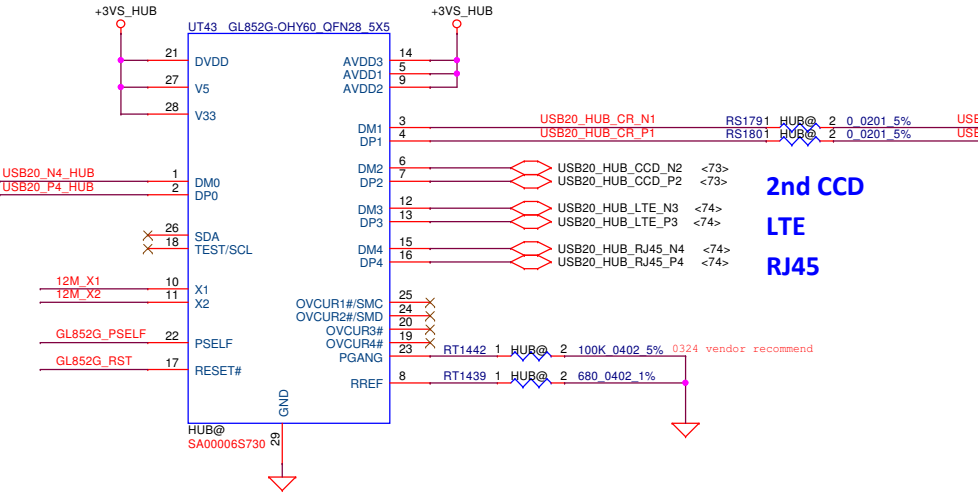
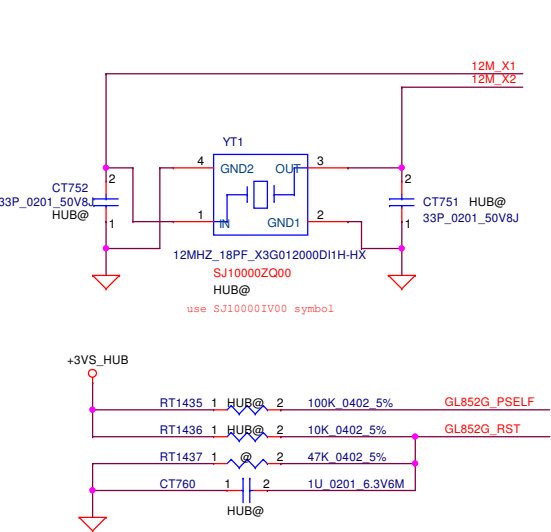
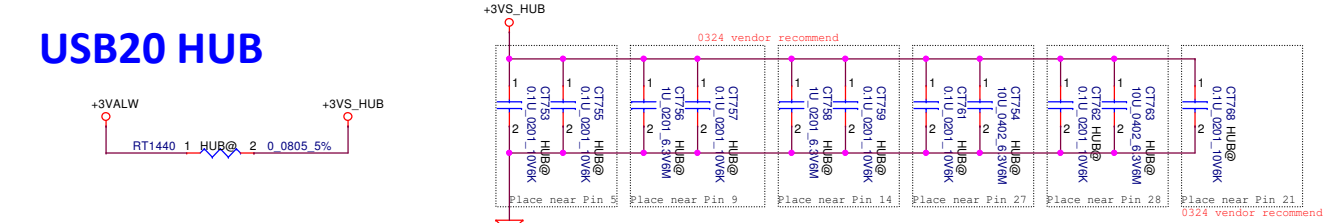
HUB

CR

PIN	SA464K-2200
1	+FP_VCC (3V)
2	D+
3	D-
4	GND
5	NC
6	NC
7	NC
8	NC



USB20 HUB



2nd CCD

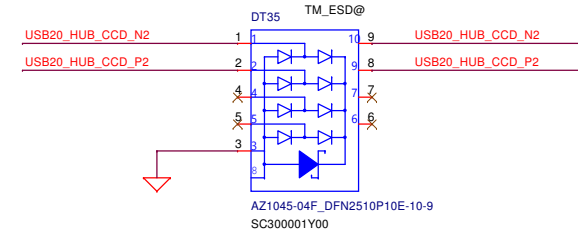
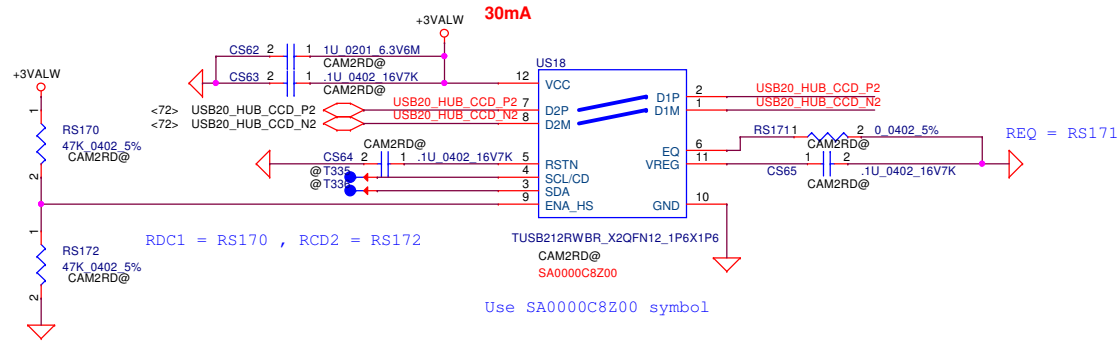
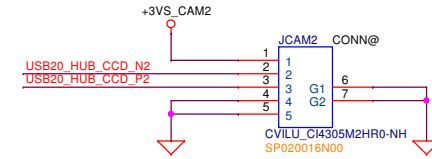
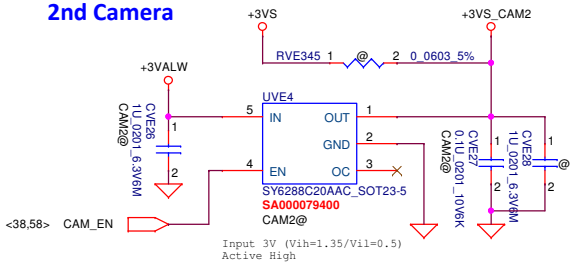
LTE

RJ45

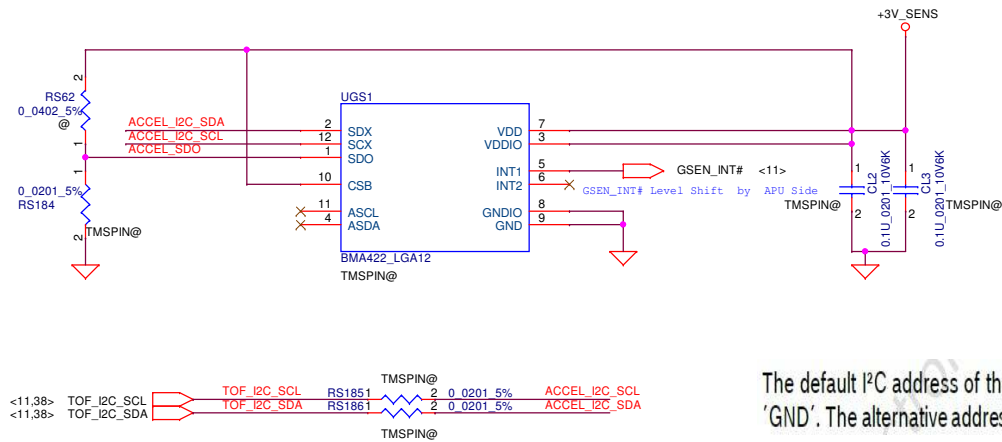
CR

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				FP/USB20 HUB	
Size	Custom	Document Number	LA-M611P	Rev	1A
Date:	Friday, September 02, 2022	Sheet	72	of	122

2nd Camera



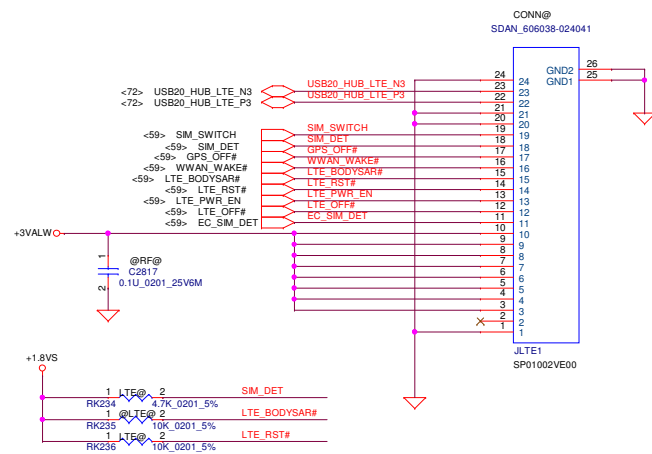
G-sensor



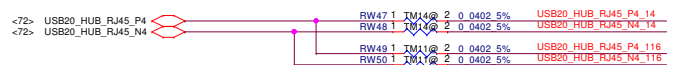
The default I²C address of the device is 0b00011000 (0x18). It is used if the SDO pin is pulled to 'GND'. The alternative address 0b00011001 (0x19) is selected by pulling the SDO pin to 'VDDIO'.

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				2nd CCD/CR	
Size	Custom	Document Number	LA-M611P	Rev 1A	
Date:	Friday, September 02, 2022	Sheet	73	of 122	

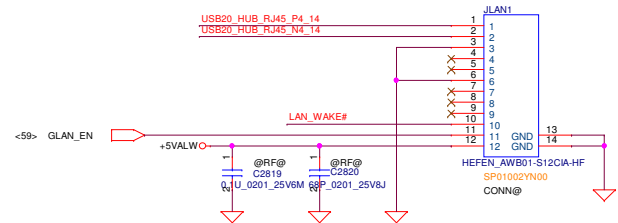
LTE CONN



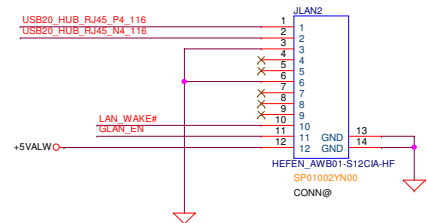
LAN/LID CONN



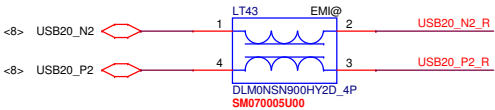
For 11.6" Travel mate



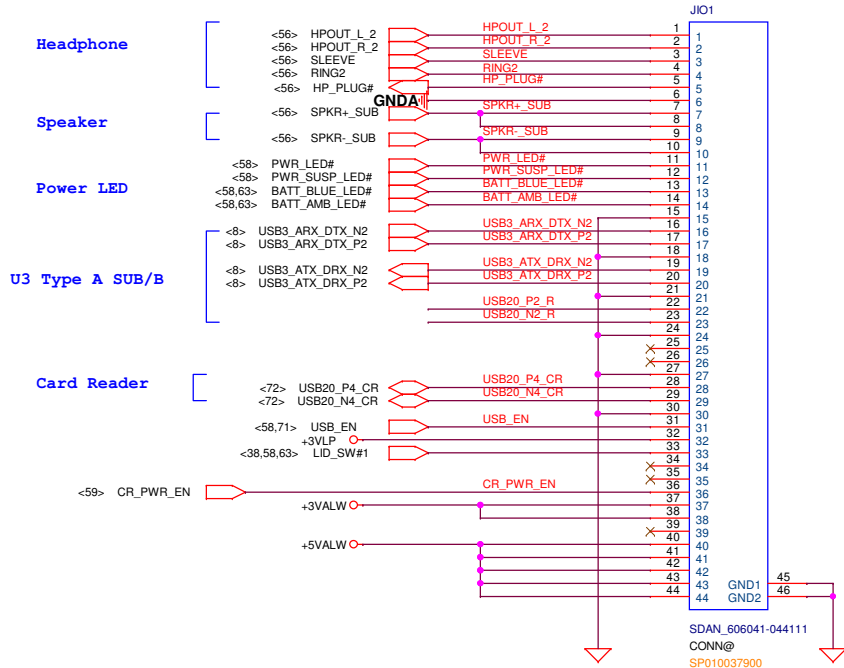
For 14" Travel mate



USB3.0 (Port 3)/USB2.0(Port2)



IO Connector

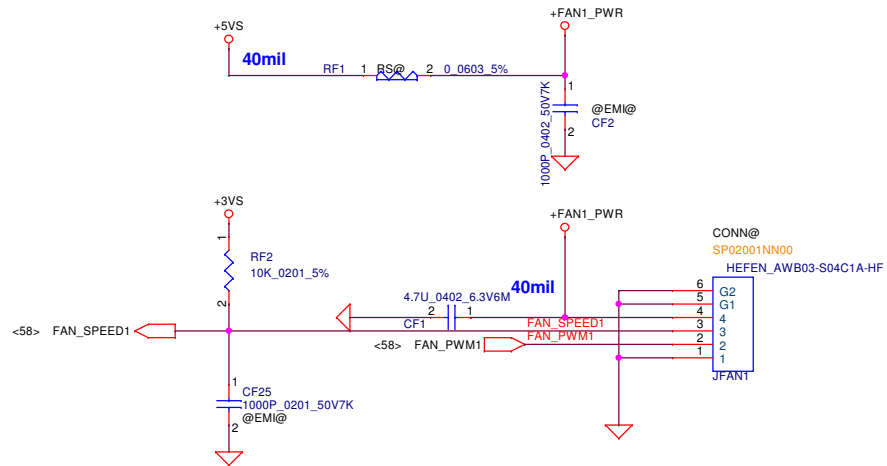


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 75 of 122

Reserve Page

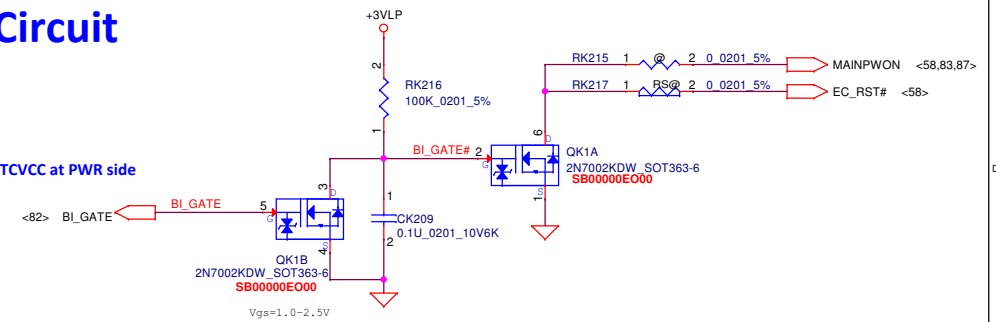
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Reserve	
				Size	Document Number
				Custom	LA-M611P
Date:		Friday, September 02, 2022		Sheet	76 of 122
				Rev	1A

FAN Conn 1

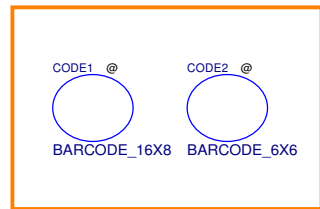
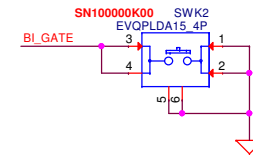


Reset Circuit

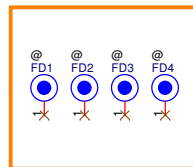
BI_GATE PH to +RTCVCC at PWR side



Reset Button

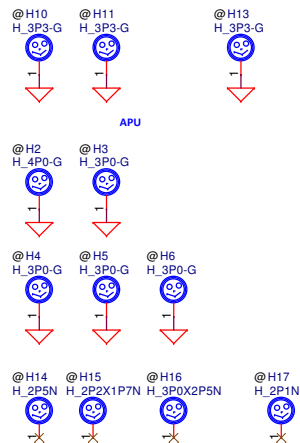


Laser Barcode Area
Place Bottom

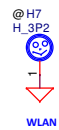


Optical Orientation Checking Point

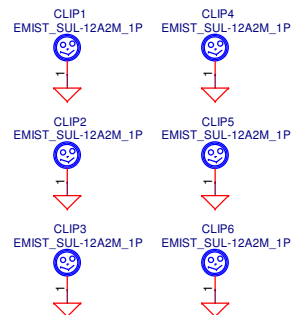
Screw Hole



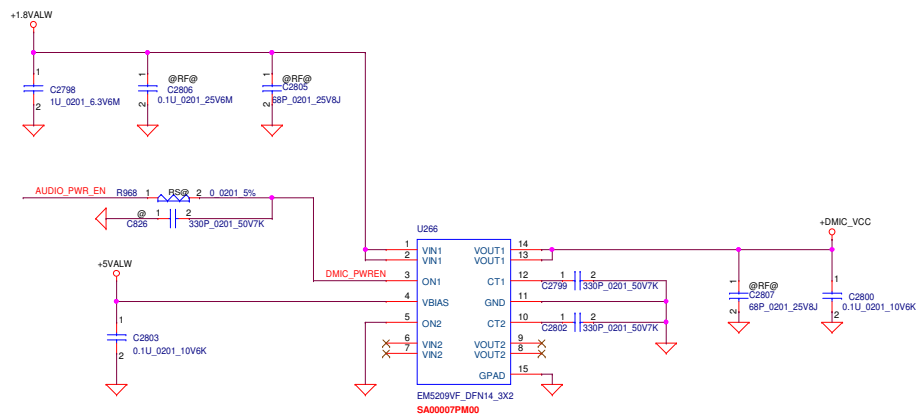
Stand OFF



CLIP



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				FAN/RST	
Size	Custom	Document Number	LA-M611P	Rev	1A
Date:	Friday, September 02, 2022	Sheet	77	of	122



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	DC/DC
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
					LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	78 of 122

Reserve Page

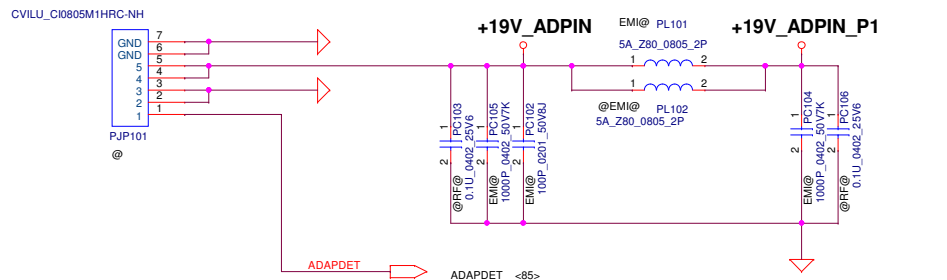
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title Reserved	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 79 of 122	



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	FP5 GND
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	80 of 122
				Rev	1A

Reserve Page

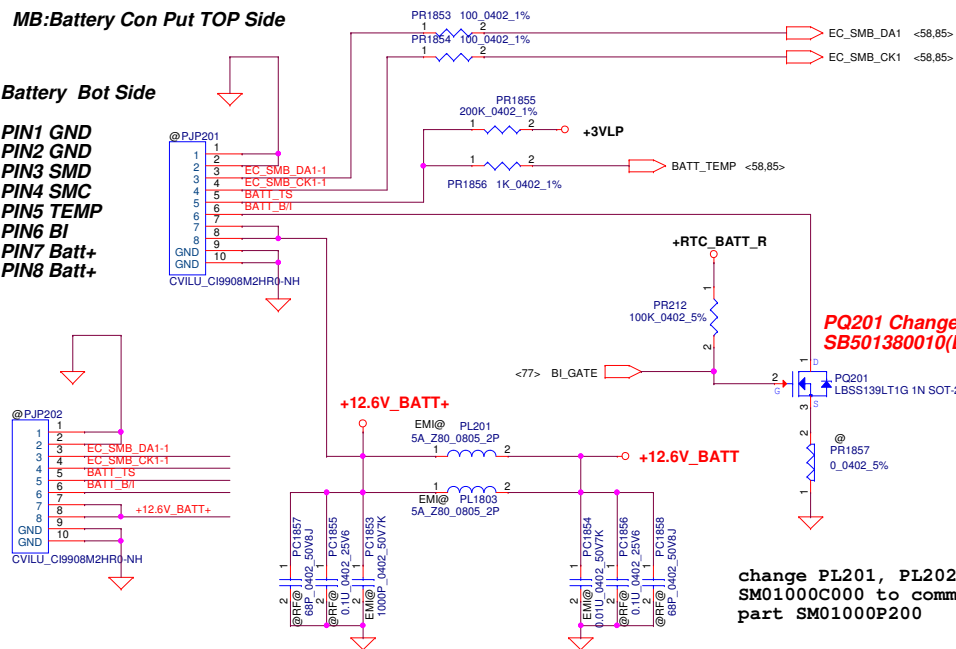
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	LA-M611P
				Date: Friday, September 02, 2022	Rev 1A
				Sheet 81 of 122	



MB:Battery Con Put TOP Side

Battery Bot Side

PIN1 GND
PIN2 GND
PIN3 SMD
PIN4 SMC
PIN5 TEMP
PIN6 BI
PIN7 Batt+
PIN8 Batt+



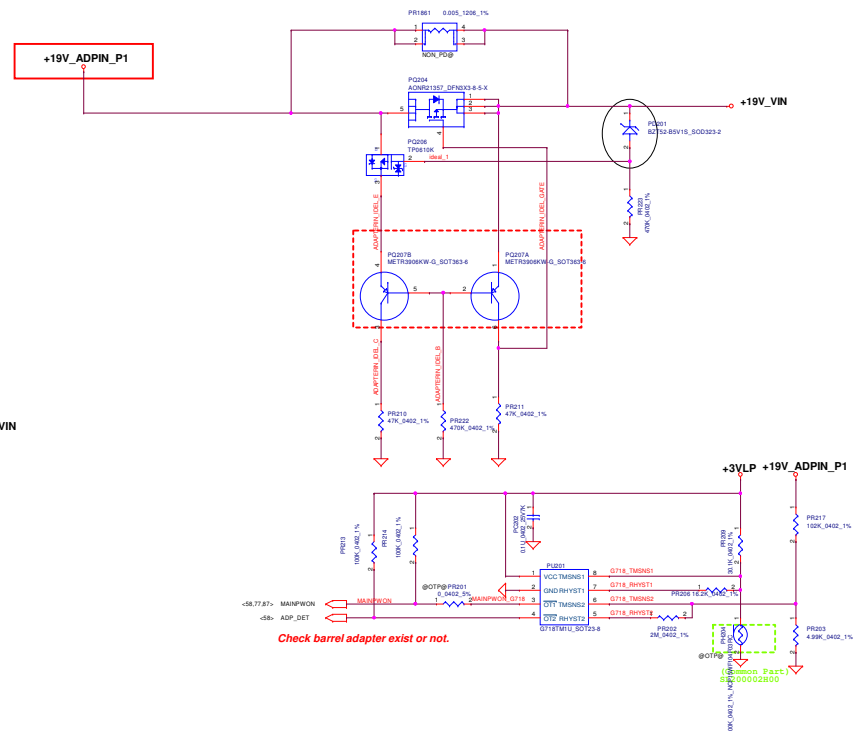
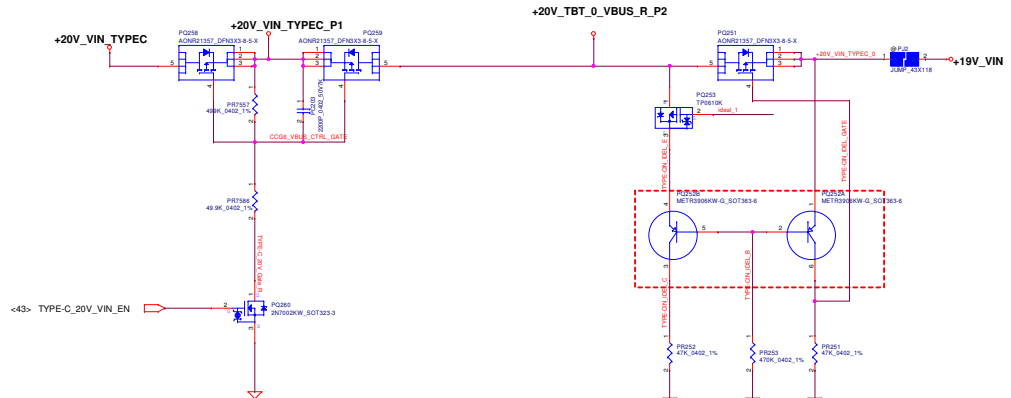
PQ201 Change to SB00000Q000,
SB501380010(BSS138LT1G Del)

change PL201, PL202
SM01000C000 to comm
part SM01000P200



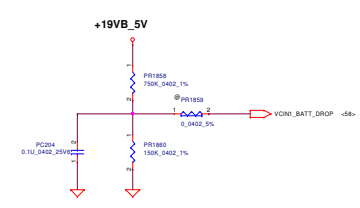
2013/06/07
Add for ENE9022 Battery Voltage drop detection.
Connect to ENE9022 pin64 AD1.

Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	DCIN
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF FACTORY DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	LA-M611P
				Date:	Friday, September 02, 2022
				Sheet	82 of 122
				Rev	1A



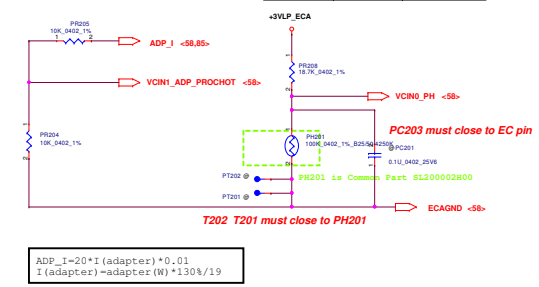
2013/06/07
Add for ENE9022 Battery Voltage drop detection.
Connect to ENE9022 pin64 AD1.

VAL50/ZAL20 Battery is 3-cell NVDC design.
B+=5V
Change PR12=50k if Battery is 2-cell NVDC design
B+=6V



When PR204=18.7K

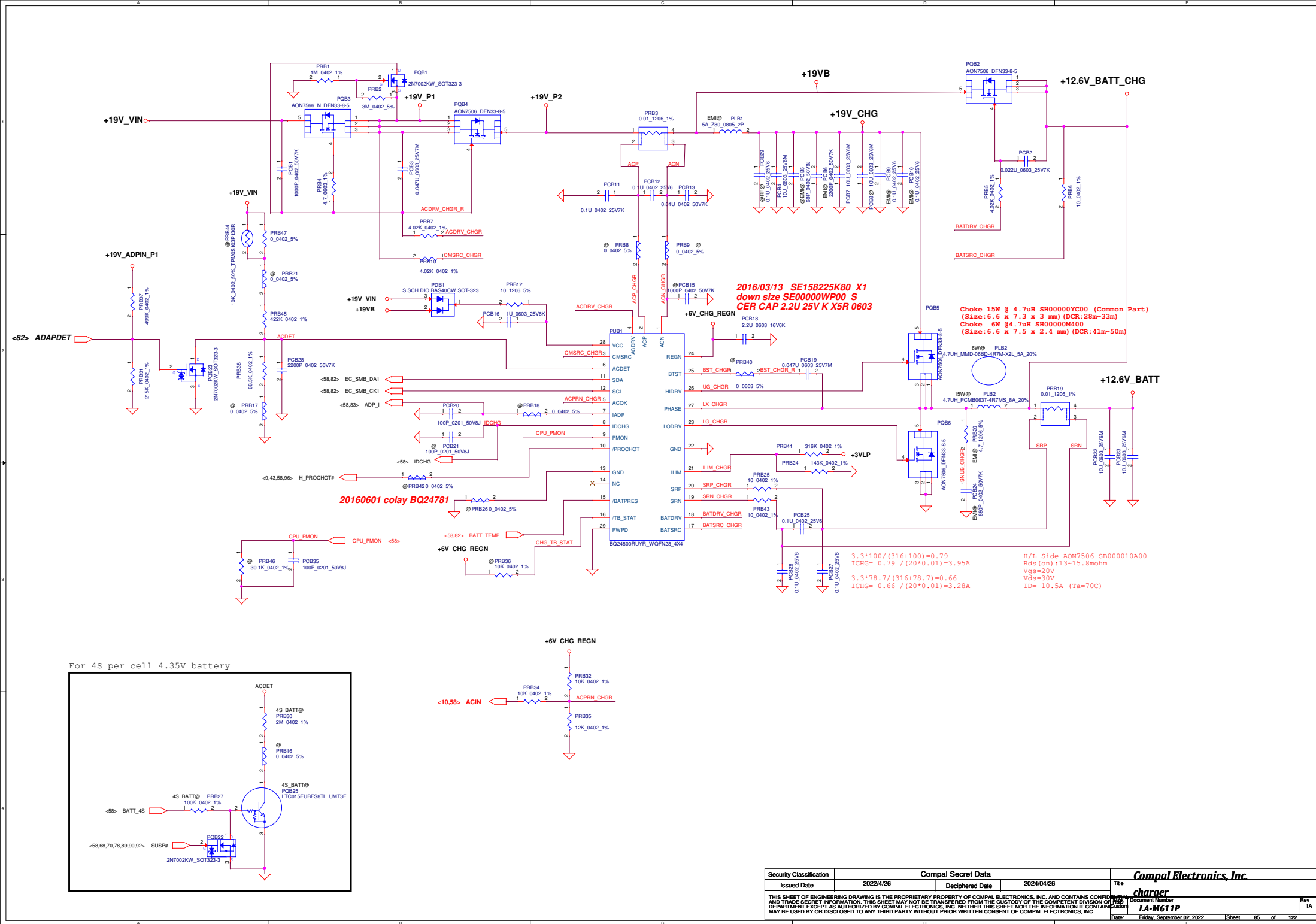
For KB9022 OTP	Active	Recovery
VCCIN0_PR(V)	89°C, 1V	56°C, 2V
PH202 (ohm)	8.0524K	26.11K



ADP_I=20*I(adapter)*0.01
I(adapter)=adapter(W)*130%/19

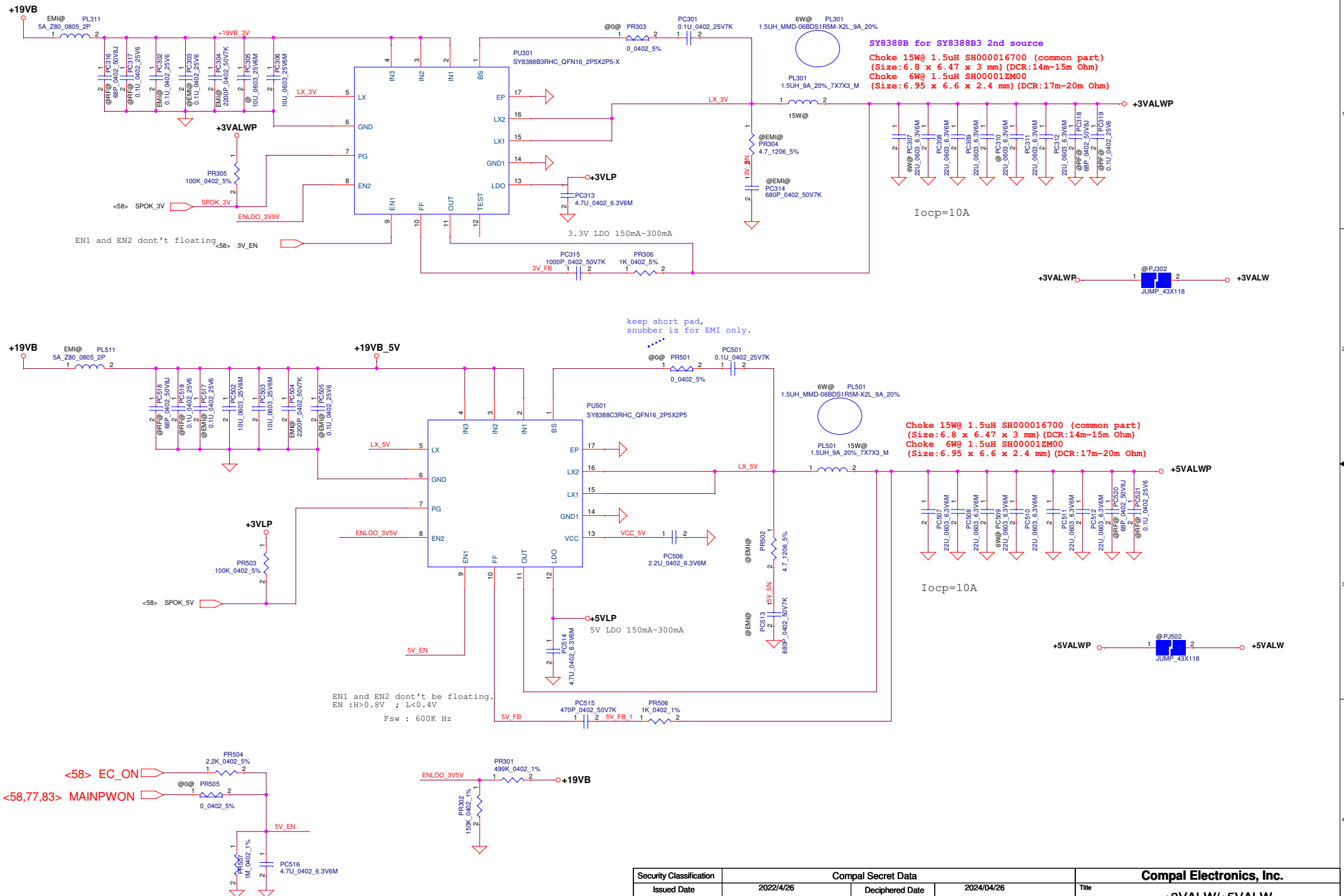
Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 84 of 122



Reserve Page

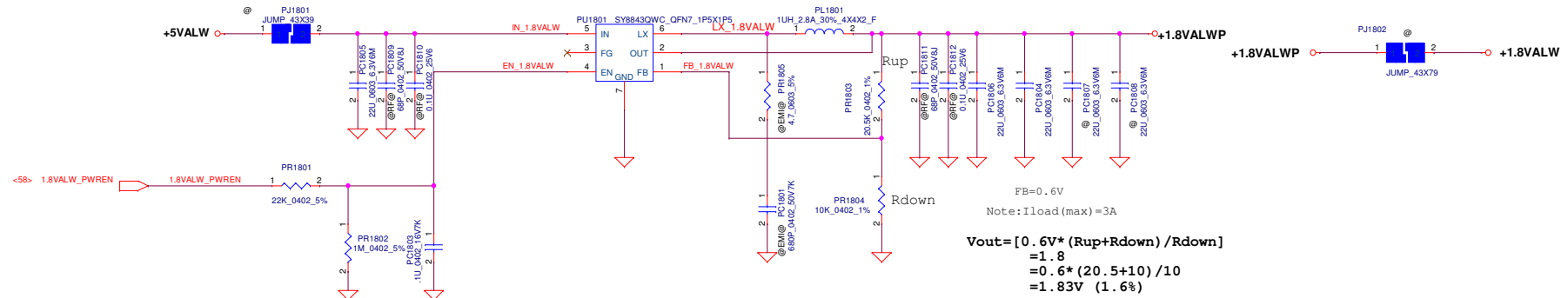
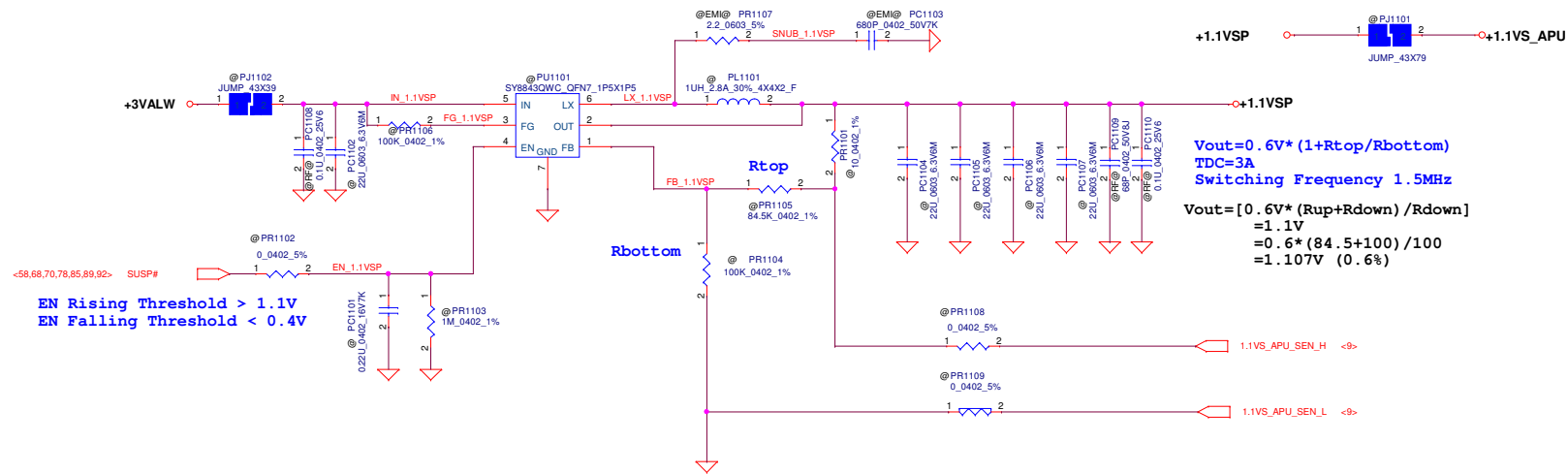
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 86 of 122



Security Classification		Compal Secret Data		Compal Electronics, Inc.			
Issued Date		2022/4/26	Deciphered Date	2024/04/26		Title	
						+3VALW/+5VALW	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev	1A
				Custom	LA-M611P		
				Date:	Friday, September 02, 2022	Sheet	87 of 122

Reserve Page

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	DDR4	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
				Custom	LA-M611P	1A
Date: Friday, September 02, 2022				Sheet	88	of 122



Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				1.8VALW		
				Size	Document Number	Rev
				Customer	LA-M611P	1A
Date:		Friday, September 02, 2022		Sheet	90	of 122

Reserve Page

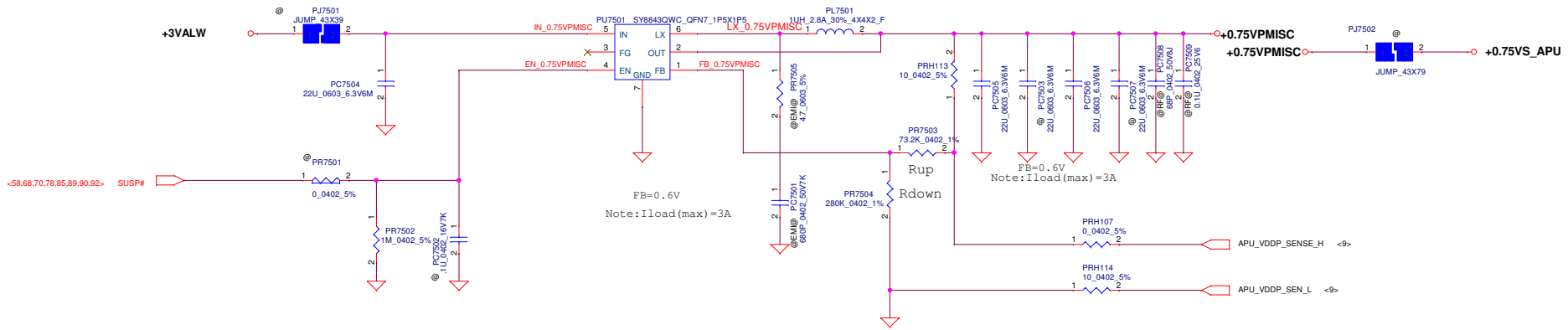
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
Date: Friday, September 02, 2022				Sheet	91 of 122

$$V_{out} = [0.6V * (R_{up} + R_{down}) / R_{down}]$$

$$= 1.8$$

$$= 0.6 * (73.2 + 280) / 280$$

$$= 0.756$$

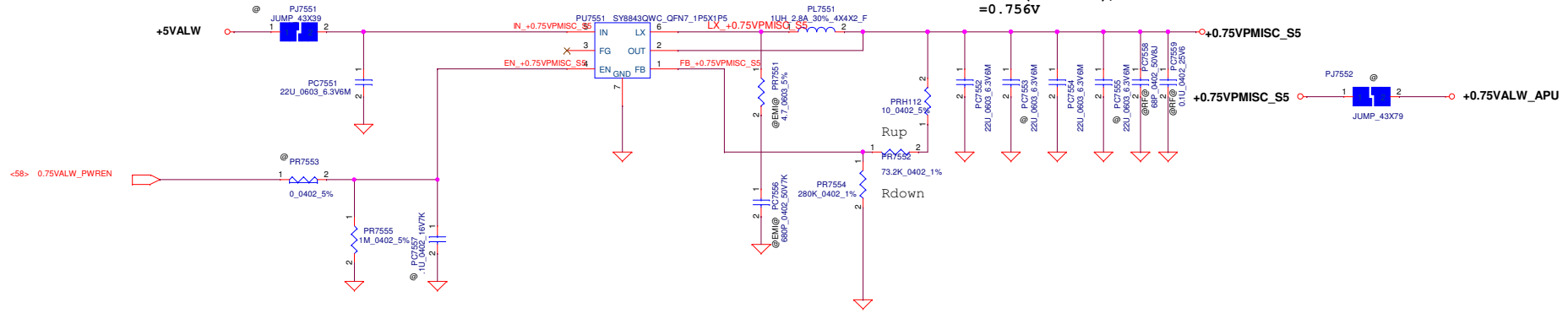


$$V_{out} = [0.6V * (R_{up} + R_{down}) / R_{down}]$$

$$= 1.8$$

$$= 0.6 * (73.2 + 280) / 280$$

$$= 0.756V$$

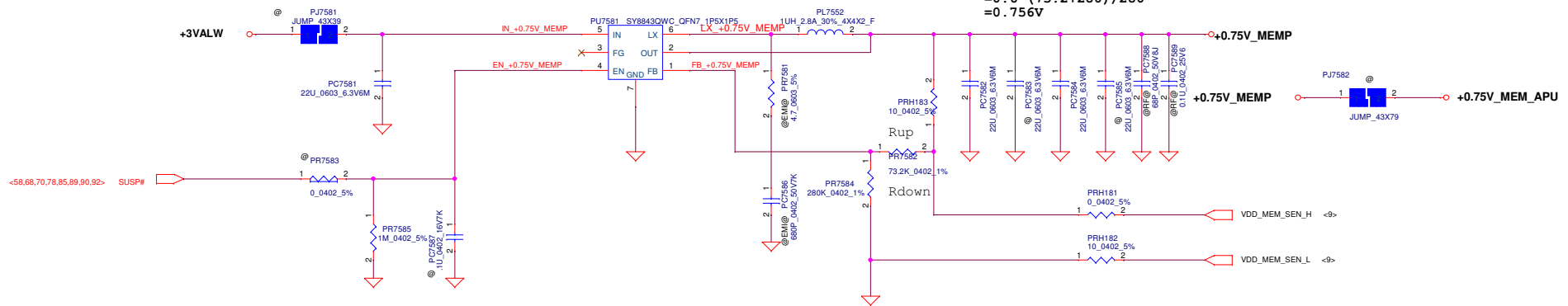


$$V_{out} = [0.6V * (R_{up} + R_{down}) / R_{down}]$$

$$= 1.8$$

$$= 0.6 * (73.2 + 280) / 280$$

$$= 0.756V$$



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	1.8VALW
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number
				Customer	LA-M611P
				Rev	1A
				Date:	Friday, September 02, 2022
				Sheet	92 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	
				Rev	
				1A	
Date: Friday, September 02, 2022				Sheet	93 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	
				LA-M611P	
				Rev 1A	
Date: Friday, September 02, 2022				Sheet 94 of 122	

Reserve Page

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	LA-M611P	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
				C	1.0VS_VCCIO	1A
				Date:	Friday, September 02, 2022	Sheet 95 of 122



SGA0007Q00/SGA000DR00/SGA000E100
for PCZ101 & PCZ102 2nd source

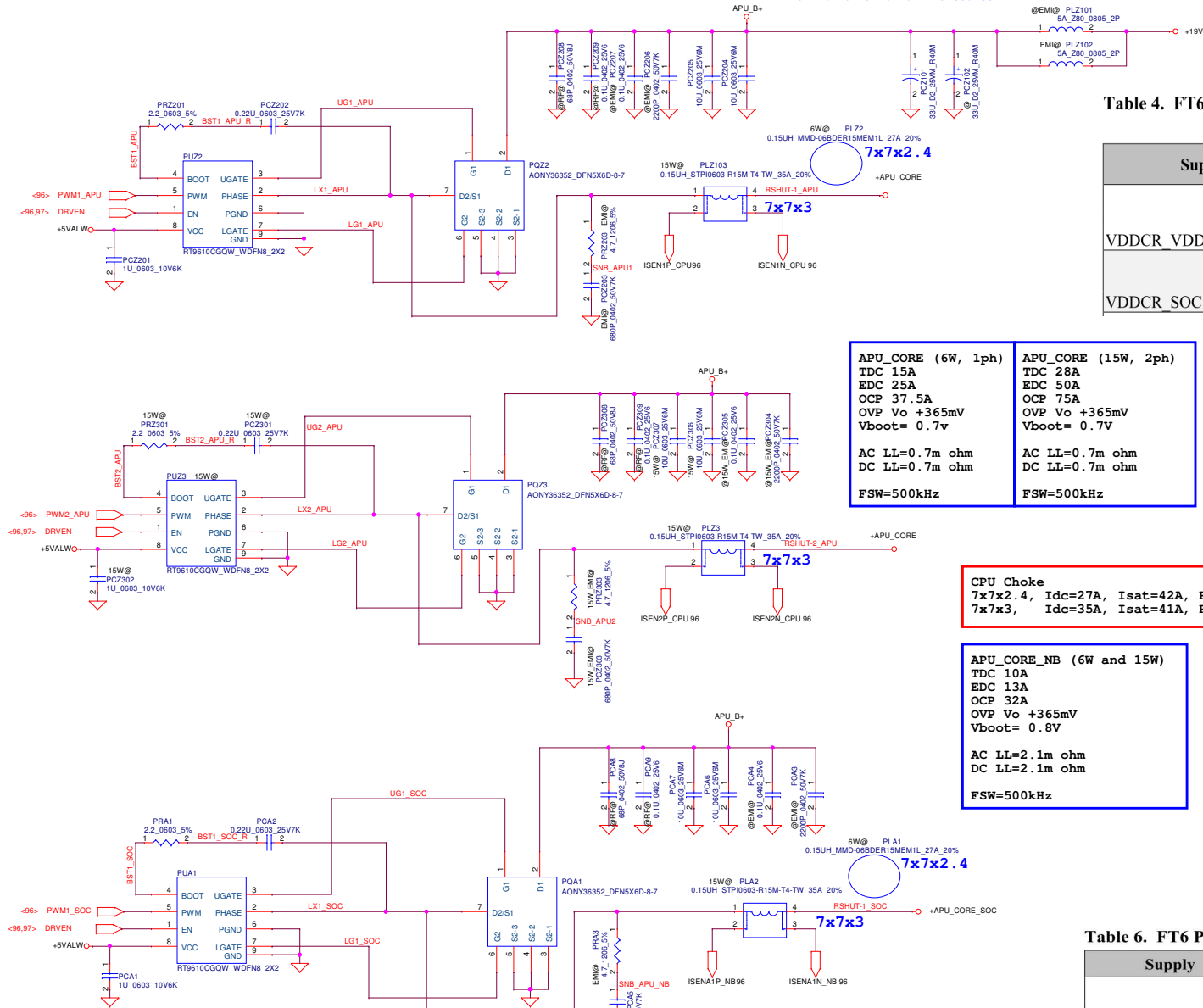


Table 4. FT6 Processor Voltage Supply Currents (SVI3 and Fixed Voltages)

Supply ¹	NVPB (V) ^{2,3}	System Config Index		Units	1	2	4
		Scenario Design Power					
VDDCR_VDD	Variable (0.6 – 1.4) ⁶	TDC ⁴	A	12	15	28	
		EDC	A	20	25	50	
		Max Loadstep ⁵	A	18.5	23	47	
VDDCR_SOC	Variable (0.6 – 1.0) ⁶	TDC ⁴	A	10	10	10	
		EDC	A	13	13	13	
		Max Loadstep ⁵	A	10	10	10	

APU_CORE (6W, 1ph) TDC 15A EDC 25A OCP 37.5A OVP Vo +365mV Vboot = 0.7v AC LL=0.7m ohm DC LL=0.7m ohm FSW=500kHz	APU_CORE (15W, 2ph) TDC 28A EDC 50A OCP 75A OVP Vo +365mV Vboot = 0.7V AC LL=0.7m ohm DC LL=0.7m ohm FSW=500kHz
---	--

CPU Choke
7x7x2.4, Idc=27A, Isat=42A, Rdc=0.88m+5% (SH00001FK00, Maglays), use 6W (1+1)
7x7x3, Idc=35A, Isat=41A, Rdc=0.9m+5% (SH00001EF00, commonpart) use 15W (2+1)

APU_CORE_NB (6W and 15W) TDC 10A EDC 13A OCP 32A OVP Vo +365mV Vboot = 0.8V AC LL=2.1m ohm DC LL=2.1m ohm FSW=500kHz

Table 6. FT6 Processor Voltage Supply Tolerances

Supply	Limit ¹	Voltage Tolerance ²	Notes
VDDCR_VDD	DC	VID_VDDCR_VDD – (IDDCR_VDD * 0.7 mΩ) ± 20 mV	
	Max, AC	VID_VDDCR_VDD + 95 mV	3
	Min, AC	VID_VDDCR_VDD – (IDDCR_VDD * 0.7 mΩ) – 80 mV	3
VDDCR_SOC	DC	VID_VDDCR_SOC – (IDDCR_SOC * 2.1 mΩ) ± 20 mV	
	Max, AC	VID_VDDCR_SOC + 70 mV	3
	Min, AC	VID_VDDCR_SOC – (IDDCR_SOC * 2.1 mΩ) – 40 mV	3

Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size
				Document Number
				Rev 1A
				Date: Friday, September 02, 2022
				Sheet 97 of 122

Reserve Page

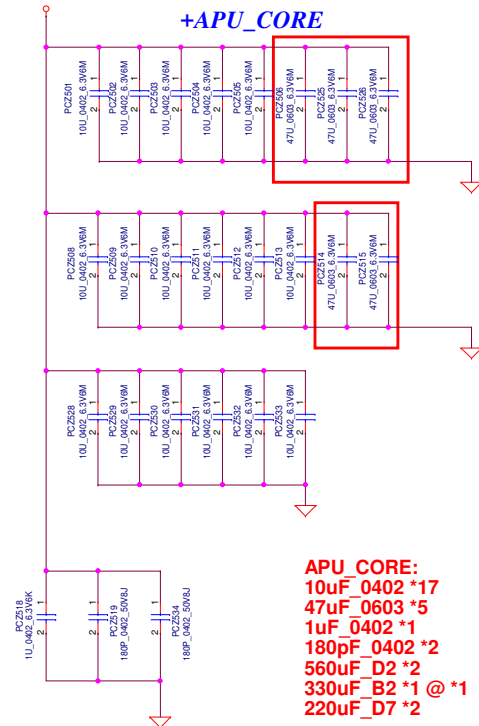
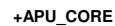
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date		Deciphered Date		Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.		Document Number		PWR- Reserve	
		Date: Friday, September 02, 2022		Sheet 98 of 122	
		Size Custom		Rev 1A	

Reserve Page

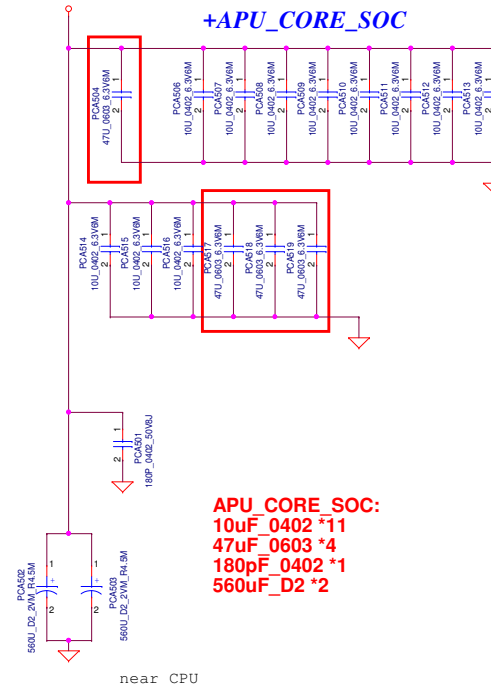
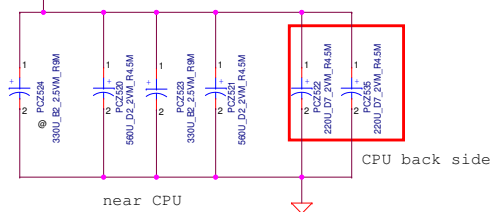
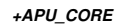
Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve Page	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
					LA-M611P	1A
				Date:	Friday, September 02, 2022	Sheet 99 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 100 of 122



APU_CORE:
10uF_0402 *17
47uF_0603 *5
1uF_0402 *1
180pF_0402 *2
560uF_D2 *2
330uF_B2 *1 @ *1
220uF_D7 *2



APU_CORE_SOC:
10uF_0402 *11
47uF_0603 *4
180pF_0402 *1
560uF_D2 *2

Security Classification		Compal Secret Data		Compal Electronics, Inc.									
Issued Date		2022/4/26		Deciphered Date		2024/04/26		Title					
								+APU CORE Cap					
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.								Size C	Document Number	Rev 1A			
										LA-M611P			
								Date:		Friday, September 02, 2022		Sheet 101 of 122	

Reserve Page

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	LA-M611P	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
				C	1.0VS_VCCIO	1A
				Date:	Friday, September 02, 2022	Sheet 102 of 122

Reserve Page

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	LA-M611P	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
				C	Reserve	1A
				Date:	Friday, September 02, 2022	Sheet 103 of 122

Reserve Page

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	PWR +NVVDD1	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
					LA-M611P	1A
				Date:	Friday, September 02, 2022	Sheet 104 of 122

Reserve Page

Security Classification		Compal Secret Data		Title	
Issued Date		Deciphered Date		Document Number	
2022/4/26		2024/04/26		LA-M611P	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Rev 1A	
Date: Friday, September 02, 2022				Sheet 105 of 122	

Reserve Page

Security Classification		Compal Secret Data		Title	
Issued Date		Deciphered Date		Document Number	
2022/4/26		2024/04/26		LA-M611P	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.		Date:		Rev	
Friday, September 02, 2022		1		1A	
Sheet		106		of 122	



Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.			PWR +1.5VRAM	
			Size	Rev
			Document Number	1A
			Date	Friday, September 09, 2022
			Sheet	108 of 122

Reserve Page

Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	PIR
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 109 of 122

A		B		C		D		E	
1									
2									
3									
4									

Reserve Page

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	+12V FAN	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
					LA-M611P	1A
				Date:	Friday, September 02, 2022	Sheet 111 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 112 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 113 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 114 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 115 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 116 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 117 of 122

Reserve Page

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title	Reserve
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HSPD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Document Number	Rev
				LA-M611P	1A
				Date: Friday, September 02, 2022	Sheet 118 of 122

Security Classification		Compal Secret Data		Compal Electronics, Inc.						
Issued Date		2022/4/26	Deciphered Date		2024/04/26					
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.										
						Title		PIR		
						Size	Document Number		Rev	
Customer		LA-M611P		1A						
Date:		Friday, September 02, 2022		Sheet	119 of 122					

[illegible]

Security Classification	Compal Secret Data			Compal Electronics, Inc. PIR		
Issued Date	2022/4/26	Deciphered Date	2024/04/26	Title		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DESIGN GROUP AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev
				Custom	LA-M611P	1A
				Date:	Friday, September 02, 2022	Sheet 120 of 122

HW Schematic chang list (P.I.R)

Item	Page	Date	Rev.	Reason for change	Modify Item
1	12	5/20	0.2	RTC Net name change	+RTC_APU Change to +RTC_APU_R
2	56	5/24	0.2	1.Int. Speaker Conn. for TM11.6 EMI Path 2.APU_TP_INT#	DEL RA970, RA971, RA974, RA975 RK231- 2.2K Change to 10K
3	9,68 10	5/25	0.2	1.APU_PCIE_RST# NET Change 2.UC1 PIN AL2 NET Change 3.AGPIO5 ADD PU/PD 4.DEL MEM_ID4 NET	US14 PIN1 and JDBG2 pin 25 NET APU_PCIE1_RST# change to APU_PCIE_RST# NET AGPIO5 change to MEM_ID4 ADD RC1010,RC1011 10K FOR Reserve DEL MEM_ID4 NET
4	10	5/26	0.2	1.DEL THERMAL IEC circuit	DEL UTS2,CF4,CF5,CF24,RF25,RF28
5	6~80	5/30	0.2	1.BOM Structure revision	BOM Structure revision
6		5/31	0.2	1.0ohm Change to RShort	RC1016,RC133,RS1,RC131,RC134,RC170,RF1,R4184,R969,RA43, RC132,RC135,RC168,RC184,RC188,RC20, RC28,RC670,RVH22,RW32,R117,R120,R777,R1693, R968,RC1017,RC174,RC175,RC176,RC177,RC690, RK217,RS2,RS3,RVE338,RVE339,RVE340,RVE341
7	72 43	6/9	0.2	1.FP_EN ADD Options PWR_EN 2.PD_INT Behavior high active	Add RK232,RK233 for SYSON and FP_PWR_EN NETNAME PD_I2C_3_INT# CHANGE TO PD_I2C_3_INT
8	10	6/10	0.2	1.0ohm Change to RShort	RC748,RC1014,RC1008
9	11 9,40 40 43 52 7	6/14	0.2	1.location name modify 2.0ohm Change to RShort 3.MOS Change 4.Add 0R 5.DEL Resistance FOR Reserved 6.SSD DEL CO-Lay Resistance	1.location name UC7 modify UCB1 ,UC4 modify UCB2 2.RC3,RC4,RC938~RC944,RVH34~RVH39 3.QVH2 PJT138 Change 2N7002 4.RT368,RT369 5.RW12 6.RC1022,RC1023,RC1024,RC1025,RC1026,RC1027,RC1028, RC1029
10		6/16	0.2	1.PD_DP2_HPD Modify Dual MOS circuit 2.Add SUB_ACCEL_INT Level Shift and Pull Up 3.Add Rshort 4.UGS1 +3VS netname change +3V_SENS 5.JLAN2 conn change 6.0ohm Change to RShort	1.DELRT82,Add RT161,RT162,RT163,QT29 2.Add QC20,RC1059,RC1060 3.R1692 Add Rshort 4.UGS1 +3VS netname change +3V_SENS 5.JLAN2 conn 16pin change 12pin 6.RC71,RC73

HW Schematic chang list (P.I.R)

Item	Page	Date	Rev.	Reason for change	Modify Item
11	66	6/29	1.0	AMD suggested Prevent leakage	R49 net +1.8VALW_TPM change to +1.8VS_TPM
12	11	6/29	1.0	1.AMD suggested Prevent leakage 2.Vendor suggested value 3.Follow CRB and MBDG to un-stuff (DNI) those PU 10K resisters for ESPI_DAT(0~3) signals	1.RC1030 net +1.8VLAW change to +1.8VS 2.CC124,CC124 change 18p 3.RC972~RC975 un-stuff
13	58	6/29	1.0	1.Follow CRB 2.AMD suggested	1.R4173 un-stuff 2.CK1 22P Change 0.1u
14	68	6/29	1.0	Add RC980 Pull 10K to +3VS_SSD2	For TM SSD2
15	59	7/8	1.0	UK7 PIN Change	1.UK7 DEL pin 18 ,Net CAM2_EN Change CAM_EN for 2nd Camera 2.UK7 DEL pin 15, Net GLAN_EN Change connect UK2 pin10
16	58	7/8	1.0	Aspire Touch screen function	1.PIN127 change net EC_GPIO59 Co-lay TS_PWR_EN 2.PIN17 change net EC_GPIO0B Co-lay TS_I2C_RST# 3.PIN18 change net EC_GPIO0C Co-lay TS_TS_SEN_EN and Pull 10K to +3VALW
17	10	7/12	1.0	Audio chip ID	definition EGPIO142
18	59	7/13	1.0	RE4,RE5,RE87, BOM 4.7k Change	For TM KC3810
19	13 63	7/19	1.0	1.AMD suggested 2.Change NC	1.Add CC13,CC14 VDD_MEM 2.JHS1 PIN3
20	13	7/20	1.0	1.AMD suggested	1.Add CC15,CC16 VDD_MEM
21	2 5	8/9	1.0	1.HDMI Parade PS8409 Change to Parade PS8209 2.Update Power Sequence	Block_Diagram
22	8	8/15	1A	1.Pull up power change 2.Bom change	1.RC949 Pull up +3VALW change to +3V_PDLDO 2.RT150 un-stuff , RT151 ,UK1 on-stuff
23	43	8/17	1A	Bom change	1.RT161 10K Change to 100K 2.RT162 10K Change to 4.7K
24 25 26	58 3 All	8/24 8/30 9/02	1A	Board ID Change Update BOM Structure Update Cover Page	R778 Change to 27K