Compal Confidential

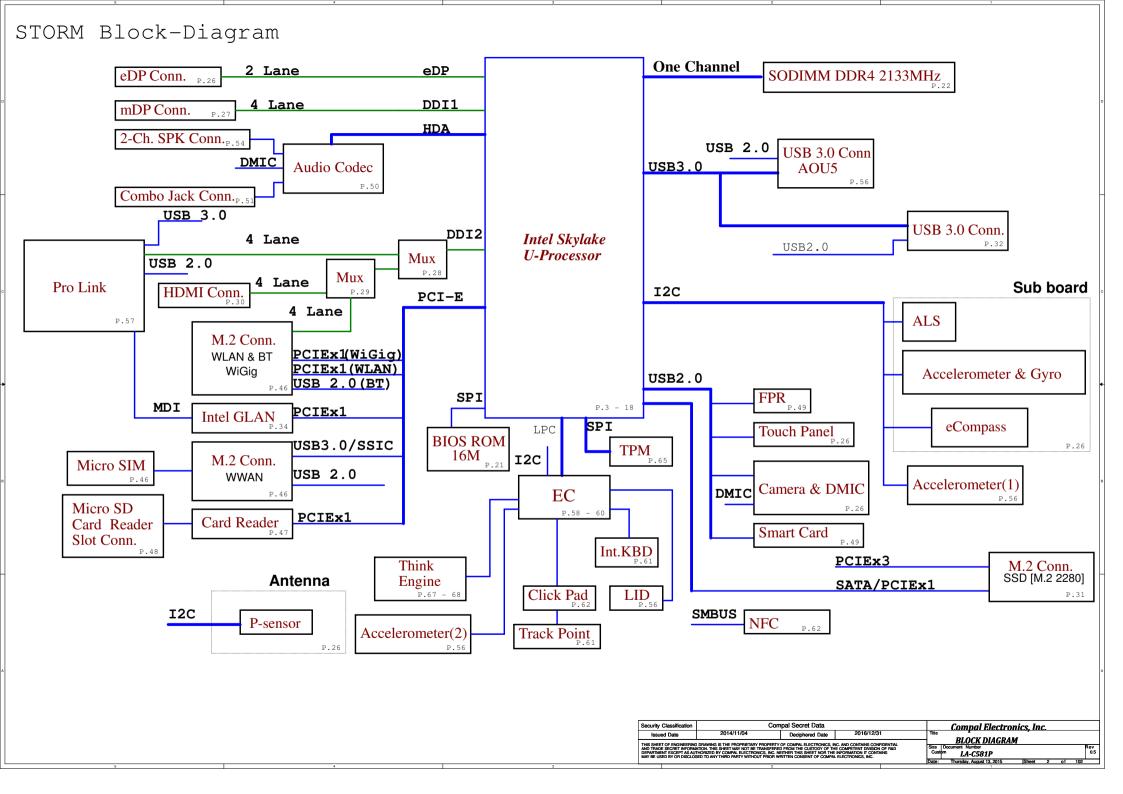
STORM M/B Schematic

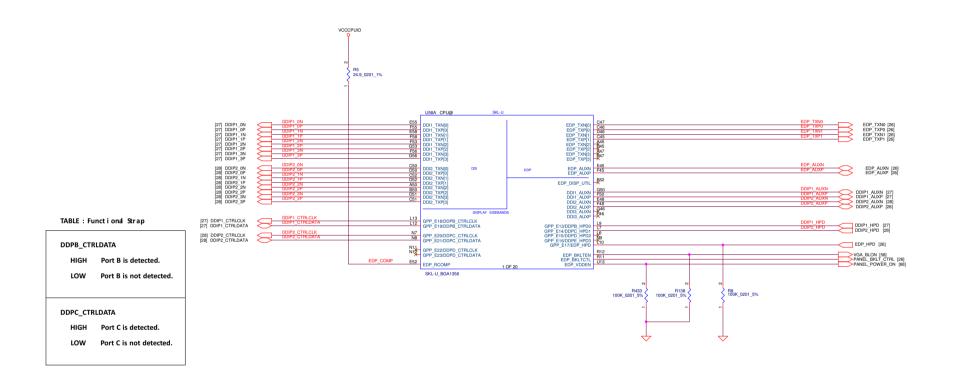
LA-C581P

Rev: 1.0_D

2015.08.13

Security Classification	Com	pal Secret Data				Compal Electro	onics. In	IC.			
Issued Date	2014/11/04	Deciphered Date	2016/12/31		Title	COVER PAGE					
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AU	S DRAWING IS THE PROPRIETARY PROPERTY ATION. THIS SHEET MAY NOT BE TRANSFEREI THORIZED BY COMPAL ELECTRONICS, INC. NI SED TO ANY THIRD PARTY WITHOUT PRIOR W	FROM THE CUSTODY OF THE	E COMPETENT DIVISION O INFORMATION IT CONTAI	OF R&D	Size Custo	Document Number					Rev 0.5
					Date:	Thursday, August 13, 2015	Sheet	1	of	102	



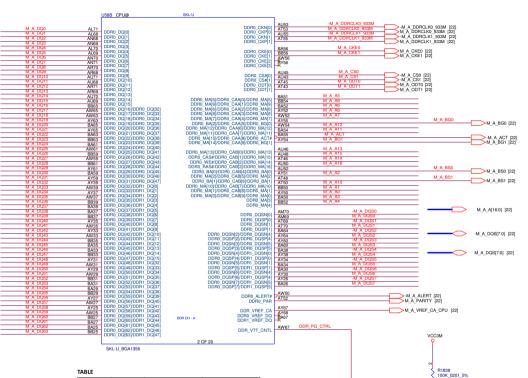


Security Classificatio	n Con	npal Secret Data				Co	mpal l	Electro	nics. In	C.			
Issued Date	2014/11/04	Deciphered Date	2016/12/3		CPU(1/16) : DDI/EDP								
THIS SHEET OF ENGINEER	ING DRAWING IS THE PROPRIETARY PROPERTY	OF COMPAL ELECTRONICS II	NO AND CONTAINS CON	IDENTIAL				6): UU	I/EDP				
AND TRADE SECRET INFO	RMATION, THIS SHEET MAY NOT BE TRANSFERE	D FROM THE CUSTODY OF TH	IE COMPETENT DIVISION	OF R&D		Documen							Rev
	AUTHORIZED BY COMPAL ELECTRONICS, INC. N LOSED TO ANY THIRD PARTY WITHOUT PRIOR W			INS	Cust	om j	LA-C581	lP					0.5
					Date:	Thurs	day, August	13, 2015	Sheet	3	01	102	

TABLE

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	Pin	Interleave	Non-Interleave		
Block 0	AL71 AL68 AN69 AL70 AL70 AN71 AR70 AR68 AU71 AU68 AR71 AR69 AU70 AU69	DDR0_DQ[0] DDR0_DQ[1] DDR0_DQ[1] DDR0_DQ[2] DDR0_DQ[2] DDR0_DQ[3] DDR0_DQ[4] DDR0_DQ[5] DDR0_DQ[6]	DDR0_DQ[0] DDR0_DQ[1] DDR0_DQ[1] DDR0_DQ[2] DDR0_DQ[3] DDR0_DQ[3] DDR0_DQ[4] DDR0_DQ[5] DDR0_DQ[6] DDR0_DQ[6] DDR0_DQ[1]		
Block 2	BB65 AW65 AW63 AY63 BA65 AY65 BA63 BB63 BA61 AW61 BB59 AW59 BB61 BA59 AY59	DDR0_DQ[16] DDR0_DQ[17] DDR0_DQ[17] DDR0_DQ[18] DDR0_DQ[19] DDR0_DQ[19] DDR0_DQ[20]	DDR0_DQ[32] DDR0_DQ[33] DDR0_DQ[33] DDR0_DQ[35] DDR0_DQ[35] DDR0_DQ[35] DDR0_DQ[35] DDR0_DQ[35] DDR0_DQ[38] DDR0_DQ[38] DDR0_DQ[48] DDR0_DQ[49] DDR0_DQ[42] DDR0_DQ[42] DDR0_DQ[44] DDR0_DQ[44] DDR0_DQ[45] DDR0_DQ[47]		
Block 4	AY39 AW39 AY37 AW37 BW39 BA39 BA37 BW37 AY35 AW35 AW35 BW35 BW35 BW33 BW33 BW33	DDR0_DQ[32] DDR0_DQ[32] DDR0_DQ[33] DDR0_DQ[33] DDR0_DQ[33] DDR0_DQ[35] DDR0_DQ[35] DDR0_DQ[35] DDR0_DQ[35] DDR0_DQ[35] DDR0_DQ[35] DDR0_DQ[35] DDR0_DQ[40]	DDR1_DQ[0] DDR1_DQ[1] DDR1_DQ[2] DDR1_DQ[2] DDR1_DQ[2] DDR1_DQ[3] DDR1_DQ[5] DDR1_DQ[6] DDR1_DQ[6] DDR1_DQ[8] DDR1_DQ[9] DDR1_DQ[10] DDR1_DQ[10] DDR1_DQ[112] DDR1_DQ[12] DDR1_DQ[12] DDR1_DQ[12] DDR1_DQ[13]		
Block 6	AY31 AW31 AY29 AW29 BB31 BA31 BA29 BB29 AY27 AW27 AW25 BB27 BB27 BB27 BB27 BB27 BB27 BB27 BB	DDR0_DQ[48] DDR0_DQ[49] DDR0_DQ[49] DDR0_DQ[51] DDR0_DQ[51] DDR0_DQ[51] DDR0_DQ[52] DDR0_DQ[53] DDR0_DQ[55] DDR0_DQ[55] DDR0_DQ[55] DDR0_DQ[55] DDR0_DQ[56] DDR0_DQ[56] DDR0_DQ[56] DDR0_DQ[56] DDR0_DQ[56] DDR0_DQ[56] DDR0_DQ[56] DDR0_DQ[66]	DDR1_DQ[32] DDR1_DQ[33] DDR1_DQ[33] DDR1_DQ[34] DDR1_DQ[35] DDR1_DQ[35] DDR1_DQ[38] DDR1_DQ[38] DDR1_DQ[38] DDR1_DQ[49] DDR1_DQ[42] DDR1_DQ[42] DDR1_DQ[42] DDR1_DQ[42] DDR1_DQ[44] DDR1_DQ[44] DDR1_DQ[45] DDR1_DQ[45] DDR1_DQ[47]		

LOGIC



ABLE			
Pin	DDR3L	LPDDR3	DDR4
BA51 BB54 BA52 AY52 AW52 AY55 AW54 BA54 BA55 AY54	DDRO_MA[5] DDRO_MA[6] DDRO_MA[6] DDRO_MA[7] DDRO_MA[7] DDRO_BA[2] DDRO_MA[12] DDRO_MA[11] DDRO_MA[11] DDRO_MA[14] DDRO_MA[14]	DDRO_CAA[0] DDRO_CAA[1] DDRO_CAA[2] DDRO_CAA[3] DDRO_CAA[4] DDRO_CAA[5] DDRO_CAA[6] DDRO_CAA[7] DDRO_CAA[8] DDRO_CAA[9]	DDRO_MA[5] DDRO_MA[9] DDRO_MA[6] DDRO_MA[8] DDRO_MA[7] DDRO_BG[0] DDRO_MA[12] DDRO_MA[11] DDRO_MA[11] DDRO_ACT# DDRO_BG[1]
AU46 AU48 AT46 AU50 AU52 AY51 AT48 AT50 BB50 AY50 BA50 BB52	DDRO_MA[13] DDRO_CAS# DDRO_WE# DDRO_RAS# DDRO_BA[0] DDRO_MA[2] DDRO_BA[1] DDRO_MA[10] DDRO_MA[10] DDRO_MA[10] DDRO_MA[10] DDRO_MA[10] DDRO_MA[10] DDRO_MA[10] DDRO_MA[10]	DDR0_CAB[0] DDR0_CAB[1] DDR0_CAB[2] DDR0_CAB[3] DDR0_CAB[3] DDR0_CAB[5] DDR0_CAB[6] DDR0_CAB[6] DDR0_CAB[8] DDR0_CAB[9] Not Used	DDRO_MA[13] DDRO_MA[14] DDRO_MA[14] DDRO_MA[16] DDRO_BA[0] DDRO_BA[0] DDRO_BA[1] DDRO_MA[10] DDRO_MA[10] DDRO_MA[10] DDRO_MA[10] DDRO_MA[10] DDRO_MA[3] DDRO_MA[4]

LOGIC

Pin	Interleave	Non-Interleave
AM70	DDRO_DQSN[0]	DDR0_DQSN[0]
AM69	DDRO_DQSP[0]	DDR0_DQSP[0]
AT69	DDRO_DQSN[1]	DDR0_DQSN[1]
AT70	DDRO_DQSP[1]	DDR0_DQSP[1]
BA64	DDR0_DQSN[2]	DDR0_DQSN[4]
AY64	DDR0_DQSP[2]	DDR0_DQSP[4]
AY60	DDR0_DQSN[3]	DDR0_DQSN[5]
BA60	DDR0_DQSP[3]	DDR0_DQSP[5]
BA38	DDR0_DQSN[4]	DDR1_DQSN[0]
AY38	DDR0_DQSP[4]	DDR1_DQSP[0]
AY34	DDR0_DQSN[5]	DDR1_DQSN[1]
BA34	DDR0_DQSP[5]	DDR1_DQSP[1]
BA30	DDR0_DQSN[6]	DDR1_DQSN[4]
AY30	DDR0_DQSP[6]	DDR1_DQSP[4]
AY26	DDR0_DQSN[7]	DDR1_DQSN[5]
BA26	DDR0_DQSP[7]	DDR1_DQSP[5]
	AM70 AM69 AT69 AT70 BA64 AY64 AY60 BA60 BA38 AY34 BA34 BA34	AM70 AM69 DDR0_DQSN[0] AM69 DDR0_DQSP[0] AF69 DDR0_DQSP[1] AF70 DDR0_DQSP[1] BA64 DDR0_DQSP[1] AF64 DDR0_DQSP[2] AF64 DDR0_DQSP[3] BA60 DDR0_DQSP[3] BA38 DDR0_DQSP[4] A738 DDR0_DQSP[4] A738 DDR0_DQSP[6] BA34 DDR0_DQSP[6] BA30 DDR0_DQSP[6] BA30 DDR0_DQSP[6] A730 DDR0_DQSP[6]

LOGIC

Security Classificat Compal Secret Data Compal Electronics, Inc. 2014/11/04 2016/12/31 Issued Date Deciphered Date CPU(2/16) : DDR CHANNEL-A HIS SEET OF INCIDENTIAL DRIVING IS THE PROPRETIALY PROPERTY OF CAUSE ILL ECTIONICS, MC. AM. CONTRAIS CONFEDENTIAL OR TRACE SECTION REPORTED THAN THE PROPERTY OF THE CAMBETTER TRACES OF CONTRAINING THE CAMBETTER CAMBE LA-C581P Thursday, August 13, 2015

DDR_VTT_PG_CTRL [83,84]

Q170 DTC015TMT2L_VMT3

VCC1R2A

@ R1858 10K_0201_5%

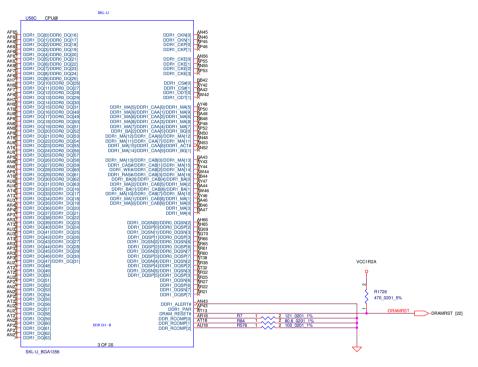
TARLE

Din

Interleave

	Pin	Interleave	Non-Interleave
Block 1	AF65 AF64 AK65 AK64 AF66 AF67 AK67 AK66 AF70 AF68 AH71 AH68 AH71 AF69 AH70 AH69	DR1_DQ[0] DR1_DQ[1] DR1_DQ[1] DR1_DQ[2] DR1_DQ[2] DR1_DQ[3] DR1_DQ[4] DR1_DQ[6]	DDR0_DQ[16] DDR0_DQ[17] DDR0_DQ[18] DDR0_DQ[18] DDR0_DQ[19] DDR0_DQ[20] DDR0_DQ[20] DDR0_DQ[22] DDR0_DQ[22] DDR0_DQ[22] DDR0_DQ[23] DDR0_DQ[24] DDR0_DQ[26]
Block 3	AT66 AU66 AP65 AN65 AN66 AP66 AT65 AU61 AU61 AP60 AN60 AN60 AN61 AP61 AT60 AU60	DR1_DQ[16] DDR1_DQ[16] DDR1_DQ[18] DDR1_DQ[18] DDR1_DQ[19] DDR1_DQ[20] DDR1_DQ[20] DDR1_DQ[21] DDR1_DQ[22] DDR1_DQ[22] DDR1_DQ[25] DDR1_DQ[26] DDR1_DQ[26] DDR1_DQ[26] DDR1_DQ[26] DDR1_DQ[27] DDR1_DQ[28] DDR1_DQ[28] DDR1_DQ[28] DDR1_DQ[28] DDR1_DQ[28]	DDR0_DQ(48) DDR0_DQ(49) DDR0_DQ(50) DDR0_DQ(51) DDR0_DQ(52) DDR0_DQ(52) DDR0_DQ(52) DDR0_DQ(54) DDR0_DQ(56) DDR0_DQ(56) DDR0_DQ(56) DDR0_DQ(56) DDR0_DQ(56) DDR0_DQ(56) DDR0_DQ(66) DDR0_DQ(66) DDR0_DQ(66) DDR0_DQ(66) DDR0_DQ(66) DDR0_DQ(66) DDR0_DQ(66)
Block 5	AU40 AT40 AT37 AU37 AR40 AP40 AP37 AR37 AU33 AU33 AU30 AT30 AR33 AP33 AP33	DR1_DQ[32] DDR1_DQ[32] DDR1_DQ[34] DDR1_DQ[34] DDR1_DQ[35] DDR1_DQ[35] DDR1_DQ[36] DDR1_DQ[38] DDR1_DQ[38] DDR1_DQ[48] DDR1_DQ[42] DDR1_DQ[42] DDR1_DQ[42] DDR1_DQ[42] DDR1_DQ[44] DDR1_DQ[45] DDR1_DQ[46] DDR1_DQ[46] DDR1_DQ[47]	DRI DQ[16] DDRI DQ[17] DDRI DQ[17] DDRI DQ[18] DDRI DQ[19] DDRI DQ[20] DDRI DQ[20] DDRI DQ[21] DDRI DQ[22] DDRI DQ[23] DDRI DQ[26]
Block 7	AU27 AT27 AT27 AT25 AU25 AP27 AN27 AN25 AP25 AT22 AU21 AT21 AN21 AP21 AP21 AN22 AP21 AN22	DDR1_DQ[48] DDR1_DQ[49] DDR1_DQ[49] DDR1_DQ[51] DDR1_DQ[51] DDR1_DQ[51] DDR1_DQ[51] DDR1_DQ[52] DDR1_DQ[53] DDR1_DQ[54] DDR1_DQ[55] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[66] DDR1_DQ[66]	DDR1_DQ[48] DDR1_DQ[49] DDR1_DQ[50] DDR1_DQ[52] DDR1_DQ[52] DDR1_DQ[52] DDR1_DQ[54] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[56] DDR1_DQ[66] DDR1_DQ[66] DDR1_DQ[66]
·	l	^	<u> </u>

LOGIC



TABLE

Pin	DDR3L	LPDDR3	DDR4
AY48 AP50 BA48 BB48 AP48 AP52 AN50 AN48 AN53 AN53	DDR1_MA[5] DDR1_MA[6] DDR1_MA[6] DDR1_MA[8] DDR1_MA[7] DDR1_BA[2] DDR1_MA[12] DDR1_MA[12] DDR1_MA[12] DDR1_MA[14]	DDR1_CAA[0] DDR1_CAA[1] DDR1_CAA[2] DDR1_CAA[3] DDR1_CAA[3] DDR1_CAA[5] DDR1_CAA[6] DDR1_CAA[6] DDR1_CAA[7] DDR1_CAA[8] DDR1_CAA[9]	DDR1_MA[5] DDR1_MA[6] DDR1_MA[6] DDR1_MA[8] DDR1_MA[7] DDR1_BG[0] DDR1_MA[12] DDR1_MA[12] DDR1_MA[12] DDR1_MG[1]
BA43 AY44 AW44 BB44 AY47 BA44 AW46 BA46 BB46 BB46	DDR1 MA(13) DDR1 CAS# DDR1 W## DDR1 W## DDR1 RAS# DDR1 BA(10) DDR1 MA(2) DDR1 BA(1) DDR1 MA(10) DDR1 MA(10) DDR1 MA(10) DDR1 MA(10) DDR1 MA(1) DDR1 MA(1) DDR1 MA(1) DDR1 MA(1)	DDR1_CAB[0] DDR1_CAB[1] DDR1_CAB[2] DDR1_CAB[3] DDR1_CAB[3] DDR1_CAB[5] DDR1_CAB[5] DDR1_CAB[7] DDR1_CAB[7] DDR1_CAB[7] Not Used Not Used	DDR1 MA[13] DDR1 MA[14] DDR1 MA[14] DDR1 MA[16] DDR1 BA[0] DDR1 BA[2] DDR1 BA[1] DDR1 MA[10] DDR1 MA[10] DDR1 MA[1] DDR1 MA[3] DDR1 MA[4]

LOGIC

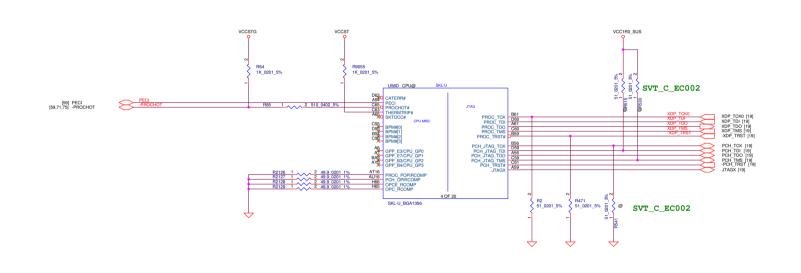
Thursday, August 13, 2015

TABLE

	Pin	Interleave	Non-Interleave
Block 1	AH66	DDR1_DQSN[0]	DDR0_DQSN[2]
	AH65	DDR1_DQSP[0]	DDR0_DQSP[2]
	AG69	DDR1_DQSN[1]	DDR0_DQSN[3]
	AG70	DDR1_DQSP[1]	DDR0_DQSP[3]
Block 3	AR66	DDR1_DQSN[2]	DDR0_DQSN[6]
	AR65	DDR1_DQSP[2]	DDR0_DQSP[6]
	AR61	DDR1_DQSP[3]	DDR0_DQSN[7]
	AR60	DDR1_DQSP[3]	DDR0_DQSP[7]
Block 5	AT38	DDR1_DQSN[4]	DDR1_DQSN[2]
	AR38	DDR1_DQSP[4]	DDR1_DQSP[2]
	AT32	DDR1_DQSN[5]	DDR1_DQSN[3]
	AR32	DDR1_DQSP[5]	DDR1_DQSP[3]
Block 7	AR25	DDR1_DQSN[6]	DDR1_DQSN[6]
	AR27	DDR1_DQSP[6]	DDR1_DQSP[6]
	AR22	DDR1_DQSN[7]	DDR1_DQSN[7]
	AR21	DDR1_DQSP[7]	DDR1_DQSP[7]

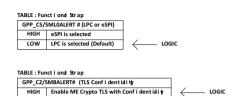
LOGIC

Security Classification	Con	npal Secret Data			Compal Elect	ronics. In	IC.	
Issued Date	2014/11/04	Deciphered Date	2016/12/31	Title	CDIV(2/16)	DDD C	** 4 3737*	77 D
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AU	B DRAWING IS THE PROPRIETARY PROPERTY ATION. THIS SHEET MAY NOT BE TRANSFERE THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W	D FROM THE CUSTODY OF THE EITHER THIS SHEET NOR THE	E COMPETENT DIVISION OF R&D INFORMATION IT CONTAINS	Size Custom	CPU(3/16) Document Number LA-C581P Thursday August 13, 2015	: DDK CI	<u> </u>	Rev 0.5



Security Classification	Con	npal Secret Data				Compo	al Ele	ctroni	cs. Inc.				
Issued Date	2014/11/04	Deciphered Date	2016/12/3		Title	CDIV	1111	14104	CUTTAC	7			
THE CHEET OF ENGINEEDING	DRAWING IS THE PROPRIETARY PROPERTY	OF COMPAN ELECTRONICS I	NO AND CONTAINS CON	DENTIN				: M150	C/JTAC	<u> </u>			
	ATION, THIS SHEET MAY NOT BE TRANSFERE			OF R&D		Document Nu							Rev
	THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W			INS	Custom	LA-C58	1P						0.5
					Date:	Thursday,	August 13,	2015	Sheet	6	01	102	
	2												





LOW Disable ME Crypto TLS (Default)

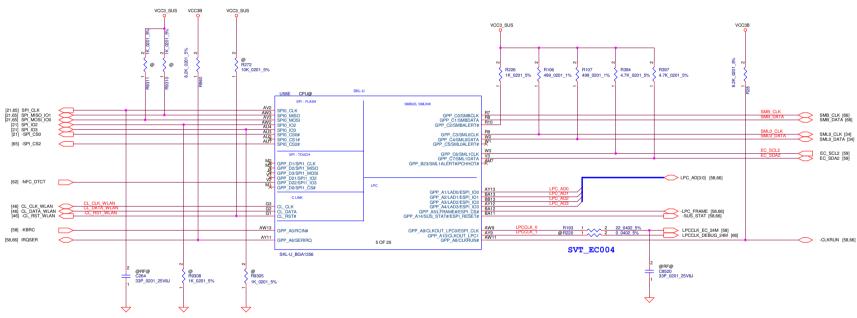


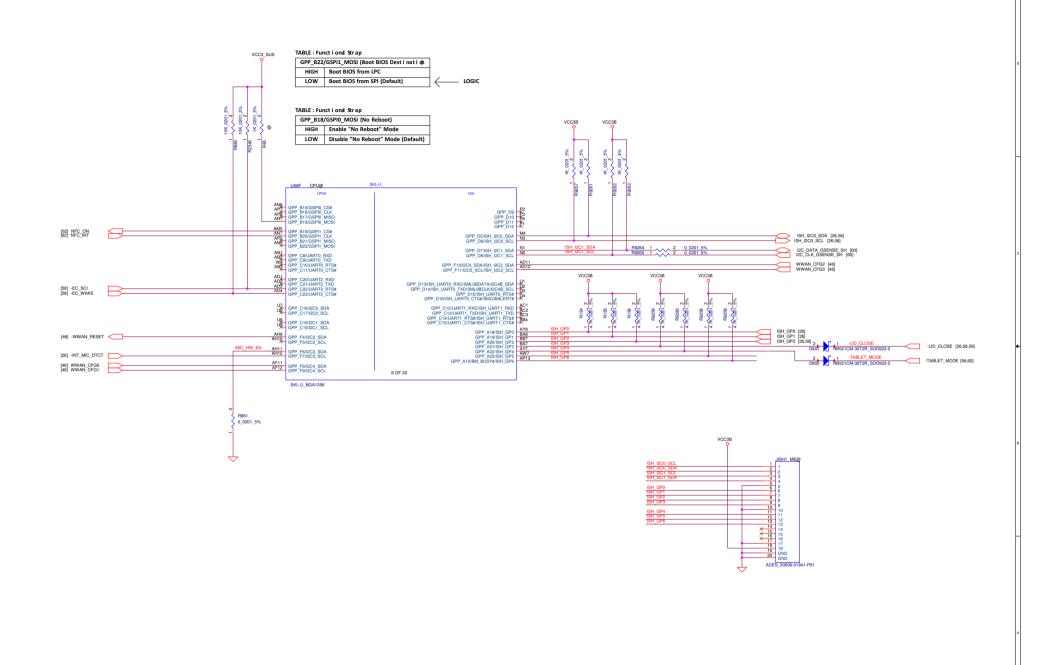
TABLE : Funct i ond Strap SPIO IO2 (Consent Strap)

SPI0_IO2 (Consent Strap)					
HIGH Enabled (Default)					
LOW Disabled					

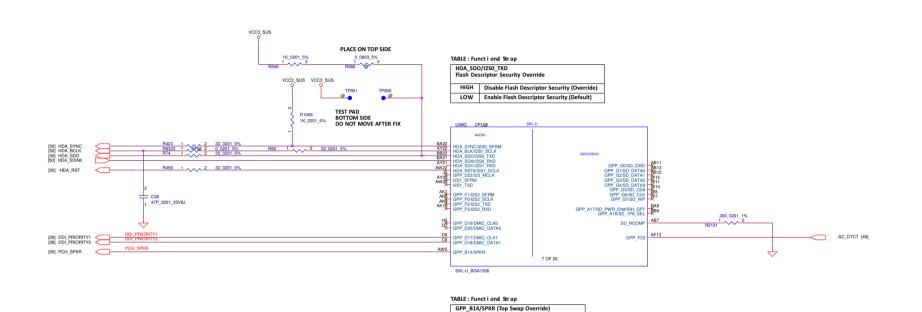
TABLE : Funct i ond Strap

SPI0_IO3 (A0 Personality Strap)					
HIGH Disabled (Default)					
LOW	Enabled				

Security Classification					Compal Electronics. Inc.	
Issued Date	2014/11/04	Deciphered Date	2016/12/31	Title	CDIVERS I DESCRIPTION I	INTE
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AU	S DRAWING IS THE PROPRIETARY PROPERTY ATION. THIS SHEET MAY NOT BE TRANSFEREI THORIZED BY COMPAL ELECTRONICS, INC. NI SED TO ANY THIRD PARTY WITHOUT PRIOR W	FROM THE CUSTODY OF THE	IE COMPÉTENT DIVISION OF R&D INFORMATION IT CONTAINS	Size Custom	CPU(5/16): LPC/SPI/SMBUS/C-L Document Number LA-C581P	Rev 0.5
				Date:	Thursday, August 13, 2015 Sheet 7 of 102	



Security Classification Compal Secret Data					- (Comp	al El	ectro	nics	. Inc.				
Issued Date	2014/11/04	Deciphered Date	2016/12/31	Title		CDIV	(11/)		CC/I	CII				
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AU	THIS SHEET OF ENGINEERING DRAWNING IS THE PROPRIETARY PROPRETTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECSET IN COMMAINTON. THIS SHEET HAN NOT BE TRANSPERED FROM THE CUSTOM OF THE COMPACTION OF THE OWNER OF THE COMPACTION OF THE COMPACTION OF THE OWNER OWNER OWNER OF THE OWNER OWN				m Do	A-C58	lumber 31P) : LP						Rev 0.5
				Date:		Thursday	, August 1	13, 2015		Sheet	8	01	102	

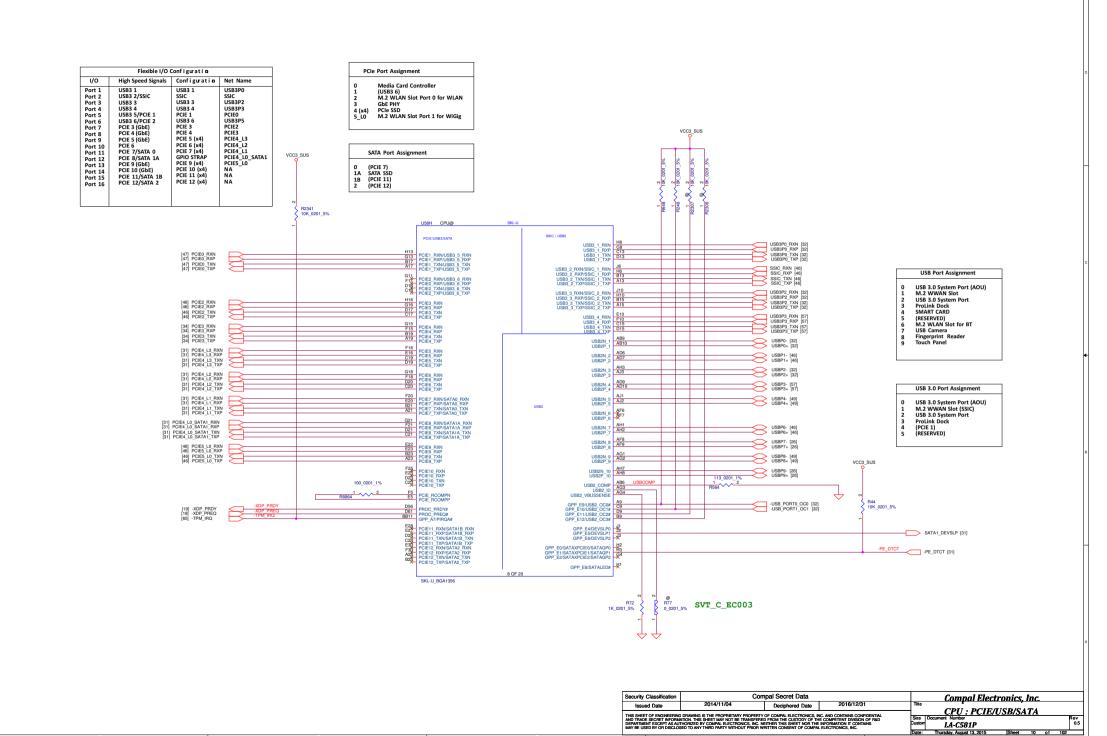


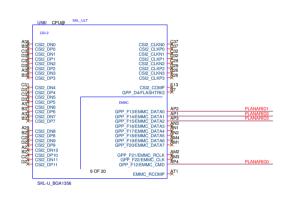
HIGH Enable "Top Swap" Mode

LOW Disable "Top Swap" Mode (Default)

__ LOGIC

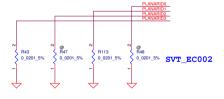
Security Classi	ification	Compal Secret Data					Compal Electronics. In	С.			Ш
Issued Dat	te	2014/11/04 Deciphered Date 2016/12/31				Title	CDI AUDIOCONIC				11
AND TRADE SECRI DEPARTMENT EXC	ET INFORMATION. CEPT AS AUTHORIZ	WING IS THE PROPRIETARY PROPERTY. THIS SHEET MAY NOT BE TRANSFERED ZED BY COMPAL ELECTRONICS, INC. NE D ANY THIRD PARTY WITHOUT PRIOR WE	FROM THE CUSTODY OF THE	E COMPETENT DIVISION INFORMATION IT CONTA	OF R&D INS	Size Custom	CPU: AUDIO/SDXC Document Number LA-C581P Thursday, August 13, 2015 Sheet		of	Rev 0.5	1
		2					1				- 1





TABLE

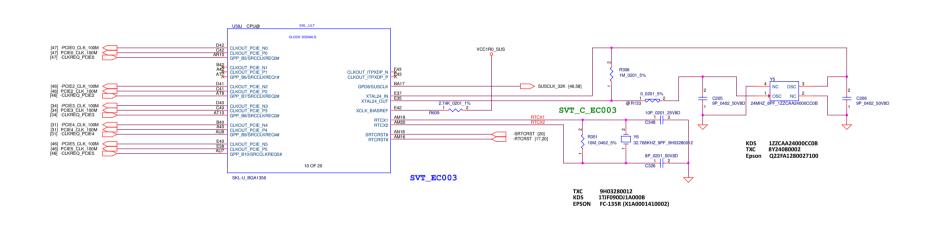
	PLA	NAR ID	
3	2	1	0
R43	R47	R113	R48
NA	NA	NA	NA
ASM	ASM	ASM	ASM
	R43 NA	3 2 R43 R47 NA NA	R43 R47 R113 NA NA NA



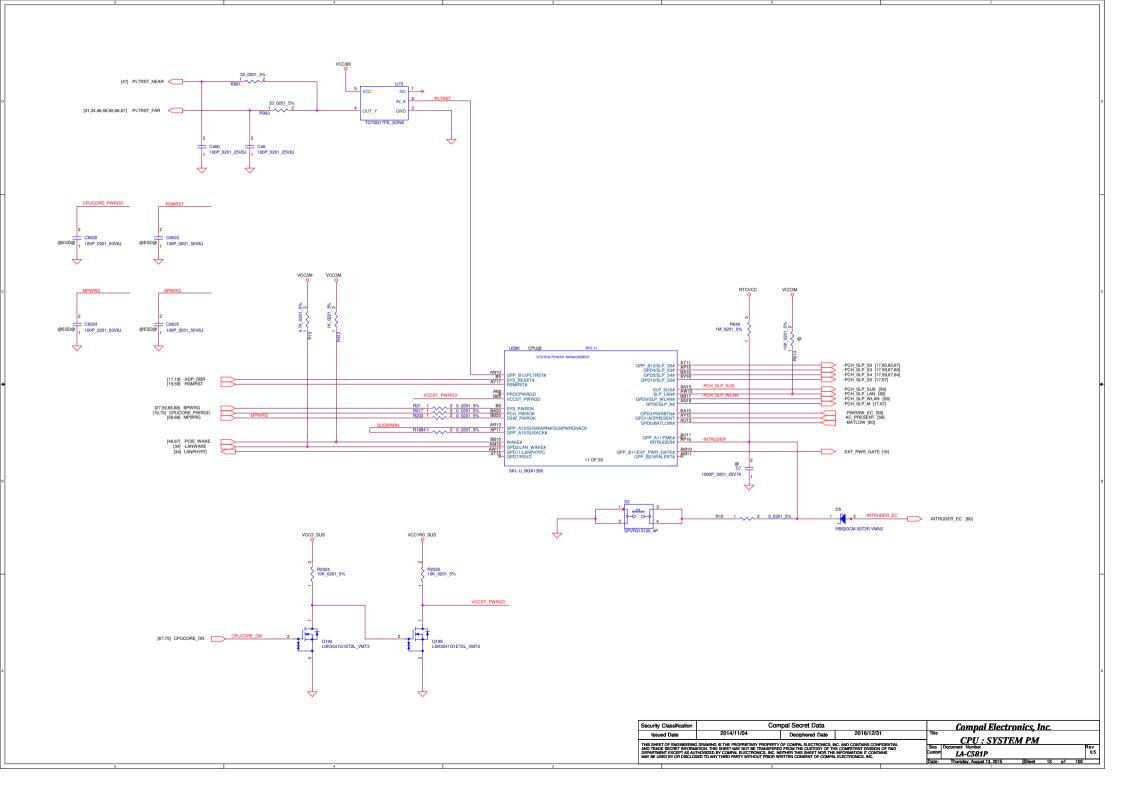
TABLE

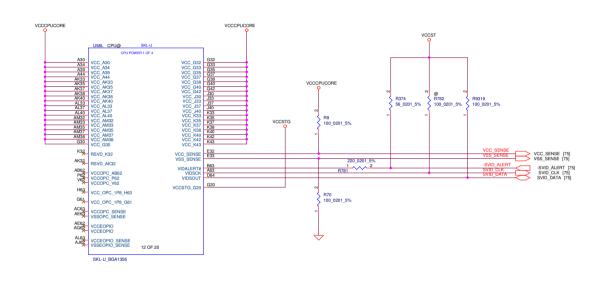
LEVEL	PLANARID[30]
PDV	0001B
FVT	0010B
SIT	0011B
SIT-R	0100B
SVT	0101B

Security Classification				Compal Electronics. Inc.							
Issued Date	2014/11/04	Deciphered Date	2016/12/3	1	Title	CDI CCI A					1
THE CHEET OF ENGINEER	ING DRAWING IS THE PROPRIETARY PROPERTY	OF COMPAN ELECTRONICS I	NO AND CONTAINS CON	DENTIN		CPU : CSI-2/I	<u>LMMC</u>				J
	RMATION, THIS SHEET MAY NOT BE TRANSFERE			OF R&D		Document Number				Rev	1
	AUTHORIZED BY COMPAL ELECTRONICS, INC. N LOSED TO ANY THIRD PARTY WITHOUT PRIOR V			uins C	ustom	LA-CSOIP				0.5	
				C	Date:	Thursday, August 13, 2015	Sheet	11	01	102	1
	2					1					

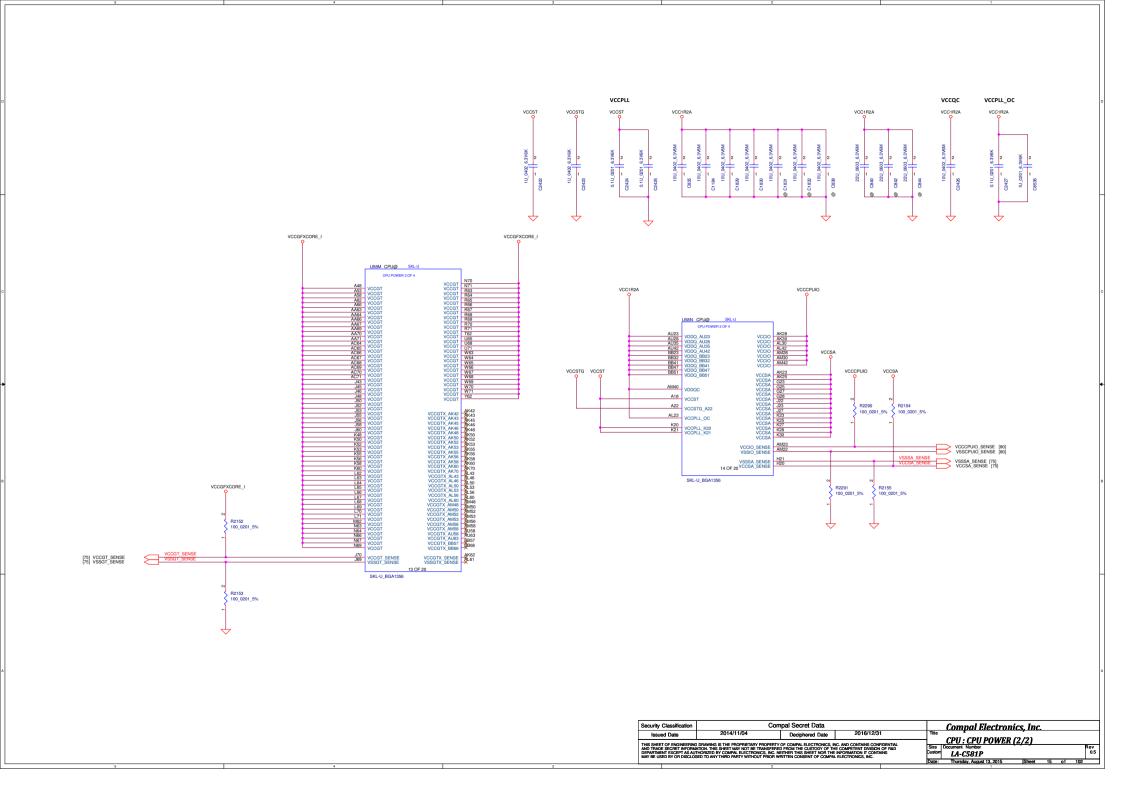


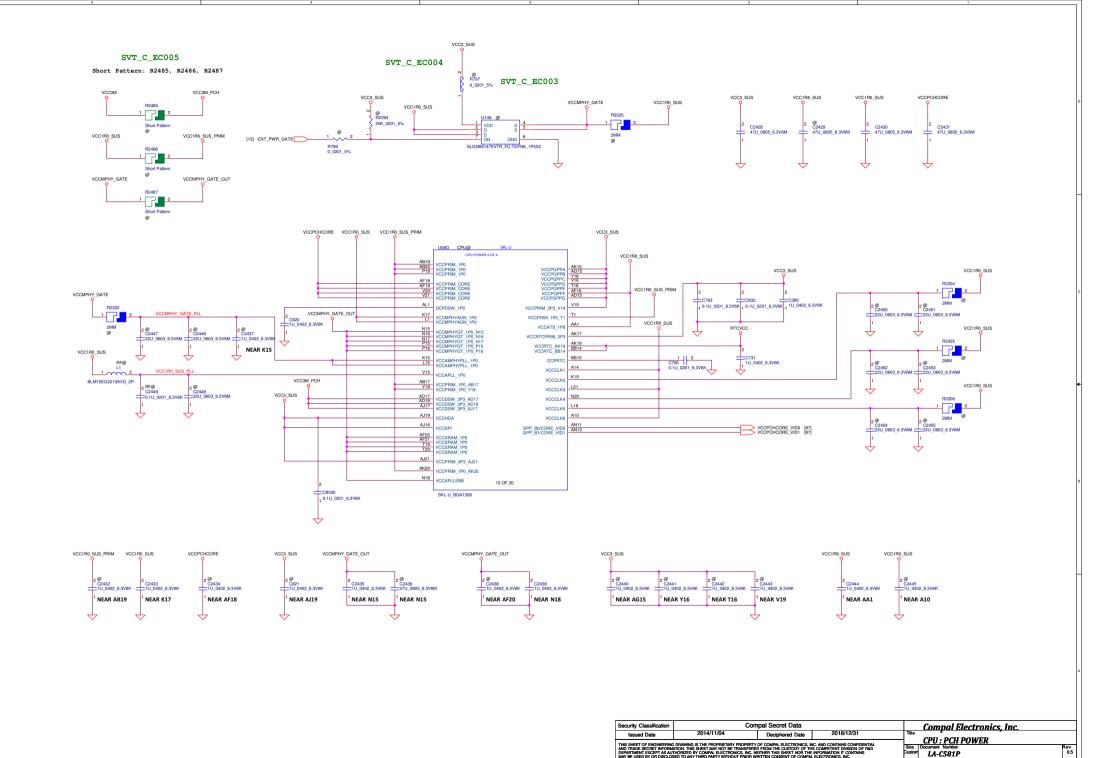
Se	Security Classification Compal Secret Data				Compal Electronics. Inc.							
	Issued Date 2014/11/04 Deciphered Date 2016/12/31		Title	CDII. CLOC	CICA	7 A T 4						
714	IC CLIEFT OF ENGINEEDIN	S DRAWING IS THE PROPRIETARY PROPERTY	OF COMPAL ELECTRONICE I	NO AND CONTAINS CON	IDENTIAL		CPU : CLOCI	1 21G/	AL	•		
		ATION. THIS SHEET MAY NOT BE TRANSFERE				Size	Document Number					Rev
DE	PARTMENT EXCEPT AS AL	THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W	EITHER THIS SHEET NOR THE	INFORMATION IT CONTA		Custom	LA-C581P					0.5
						Date:	Thursday, August 13, 2015	Sheet	12	01	102	
		2					1					





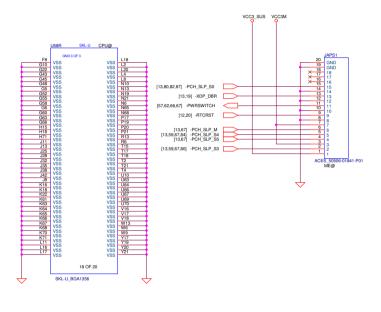
Security C	Security Classification Compal Secret Data				Compal Electronics. Inc.							
Issued	Issued Date 2014/11/04 Deciphered Date 2016/12/31		Title	CDU CDUD	OWED	/1M						
THE CHEET	THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL					CPU : CPU P	UWEK	(1/2				
AND TRADE	SECRET INFORM	ATION, THIS SHEET MAY NOT BE TRANSFERE	D FROM THE CUSTODY OF TH	HE COMPETENT DIVISION	OF BAD	Size	Document Number				\neg	Rev
DEPARTMEN	T EXCEPT AS AU	THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W	EITHER THIS SHEET NOR THE	INFORMATION IT CONTA		Custom	LA-C581P					0.5
						Date:	Thursday, August 13, 2015	Sheet	14	01	102	
		2					1					



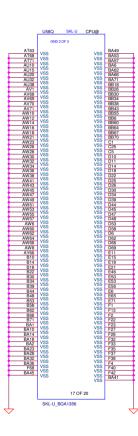


LA-C581P

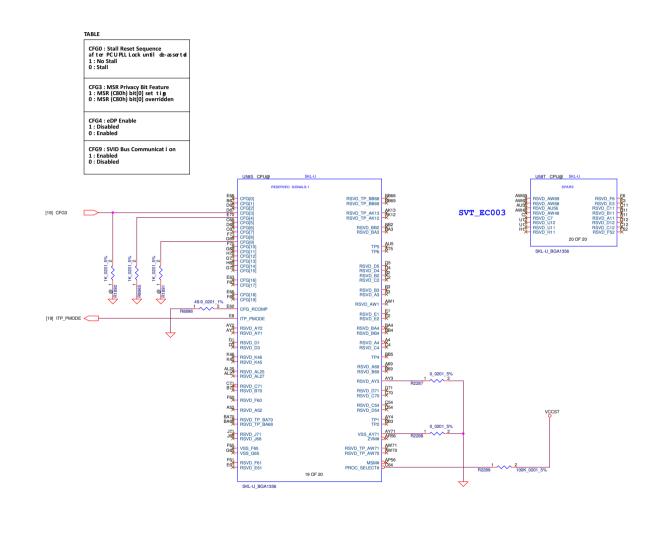
APS/PETS Interface



	U58P	SKL-U	CPU@	
	GND	1 OF 3		
A5				AL65
A67	VSS		VSS	AL66
A70	VSS VSS		VSS	AM13
AA2	VSS		VSS	AM21 AM25
AA4 AA65	VSS		VSS	AM25 AM27
AA68	VSS		VSS	AM43
AB15	VSS VSS		VSS VSS	AM45
AB16	VSS		VSS	AM46
AB18 AB21	VSS		VSS	AM55 AM60
AB21	VSS		VSS	AM61
AD13	VSS		VSS	AM68
AD16	VSS VSS		VSS VSS	AM71
AD19 AD20	VSS		VSS	AM8 AN20
AD20 AD21	VSS		VSS	
AD21	VSS		VSS	AN23 AN28
AD8	VSS		VSS	AN30
AE64	VSS VSS		VSS	AN32
AE65	VSS		VSS	AN33 AN35
AE66 AE67	VSS		VSS	AN35 AN37
AE68	VSS		VSS	AN38
AE69	VSS		VSS	AN40
AF1	VSS VSS		VSS	AN42
AF10 AF15	VSS		VSS	AN58
AF15 AF17	VSS		VSS	AN63 AP10
AF2	VSS		VSS	AP18
AF4	VSS		VSS VSS	AP20
AF63	VSS VSS		VSS	AP23
AG16 AG17	VSS		VSS	AP28 AP32
AG18	VSS		VSS	AP35
AG19	VSS		VSS	AP38
AG20	VSS VSS		VSS	AP42
AG21 AG71	VSS		VSS	AP58 AP63
AH13	VSS		VSS	AP68
AH6	VSS		VSS	AP70
AH63	VSS VSS		VSS	AR11
AH64 AH67	VSS		VSS	AR15
AH6/ AJ15	VSS		VSS	AR16 AR20
A.118	VSS		VSS	AR23
A.I20	VSS VSS		VSS VSS	AR28
AJ4 AK11	VSS		VSS	AR35
AK11 AK16	VSS		VSS	AR42 AR43
AK18	VSS		VSS	AR43 AR45
AK18 AK21	VSS		VSS	AR46
AK22	VSS VSS		VSS VSS	AR48
AK27	VSS		VSS	AR5
AK63 AK68	VSS		VSS	AR50 AR52
AK68 AK69	VSS		VSS	AR53
AKR	VSS		VSS	AR55
AL2	VSS VSS		VSS VSS	AR58
AL28	VSS		VSS	AR63
AL32 AL35	VSS		VSS	AR8 AT2
AL35	VSS		VSS	AT20
AL4	VSS		VSS	AT23
AL45	VSS		VSS	AT28
AL48 AL52	VSS		VSS	AT35 AT4
AL52 AL55	VSS		VSS	AT4 AT42
AL55 AL58	VSS		VSS	A142 AT56
AL64	VSS		VSS	AT58
	VSS	16 OF 2	VSS	

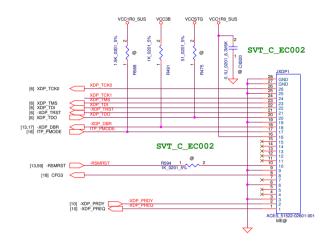


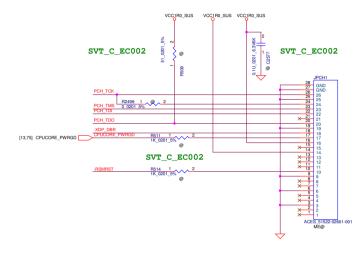
Security Classification					Compal Ele	ctronics. Inc				Ш
Issued Date	2014/11/04 Deciphered Date 2016/12/31				CPU : GND					11
AND TRADE SECRET INFORM	THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETIARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAN TOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS. INC. RETHER THIS SHEET HOR THE INFORMATION OF CONTAINS								Rev 0.5	1
MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					LA-C581P Thursday, August 13	, 2015 Sheet	17	01	102	ا ا



Security	ocurity Classification Compal Secret Data				Compal Electroni	cs. Inc.					
Issu	Issued Date 2014/11/04 Deciphered Date 2016/12/31		Title	CDII CEC (DECEDIII	,						
THIS CHE	THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL				IDENTIAL		CPU : CFG/RESERVI	שב			
		ATION, THIS SHEET MAY NOT BE TRANSFERE			OF R&D		Document Number				Rev
		THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W			ins	ustom	LA-C581P				0.5
						Date:	Thursday, August 13, 2015	Sheet	18	01	102
		2					1				



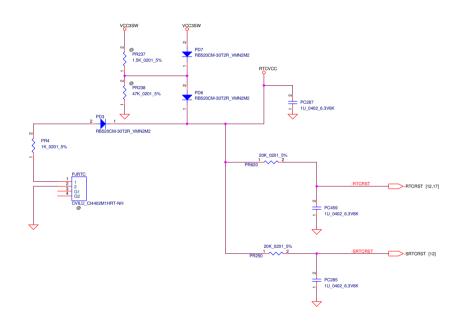




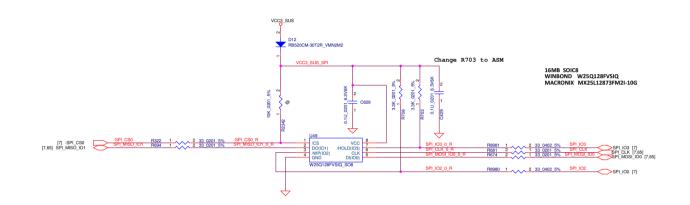
TABLE

	Individual Port	Merged Port	DCI 2.0 w/o Connector
R2	ASM	ASM	ASM
R471	ASM	NO ASM	NO ASM
R541	ASM	NO ASM	NO ASM
R515	ASM	NO ASM	NO ASM
R530	ASM	NO ASM	NO ASM
		_	_
R475	ASM	ASM	ASM
J8	ASM	ASM	NO_ASM
C8320	ASM	ASM	NO_ASM
R491	ASM	ASM	ASM
R588	ASM	ASM	NO_ASM
R594	ASM	ASM	NO_ASM
R2499	NO_ASM	NO_ASM	NO_ASM
R509	ASM	NO_ASM	NO_ASM
J9	ASM	ASM	NO_ASM
C2577	ASM	ASM	NO_ASM
R511	ASM	ASM	NO_ASM
R514	ASM	ASM	NO_ASM
R2493	NO_ASM	ASM	ASM
R2494	NO_ASM	ASM	NO_ASM
R2495	NO_ASM	ASM	ASM
R2496	NO_ASM	ASM	ASM
R2497	NO_ASM	ASM	ASM
R2498	NO_ASM	ASM	ASM
		•	

Security Classification						cs. Inc.				
Issued Date	2014/11/04	Title	VDD COMMECTOD							
	DRAWING IS THE PROPRIETARY PROPERTY	Size	XDP CONNECTOR Document Number				F	Rev		
DEPARTMENT EXCEPT AS AU	THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W	Custor					ſ	0.5		
				Date:	Thursday, August 13, 2015	Sheet	19	01	102	



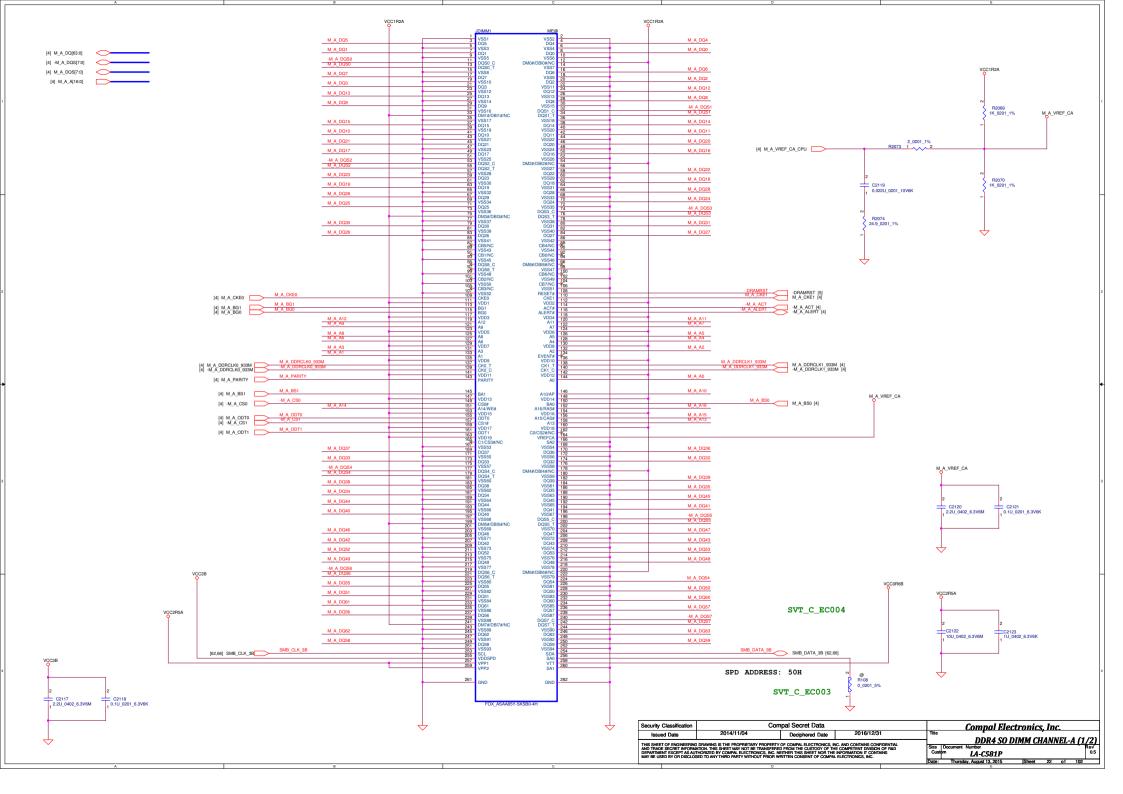
Security 0	Classification						Compal Electi	onics.	Inc.			
Issue	d Date	2014/11/04	Deciphiered Date				RTC BATTERY	,				
AND TRADE	SOURCE USES SET OF SOURCE AND					Size D Custom	current Number LA-C581P					lev 0.1
		_				Date:	Thursday, August 13, 2015	Sheet	20	01	102	
	2					1						

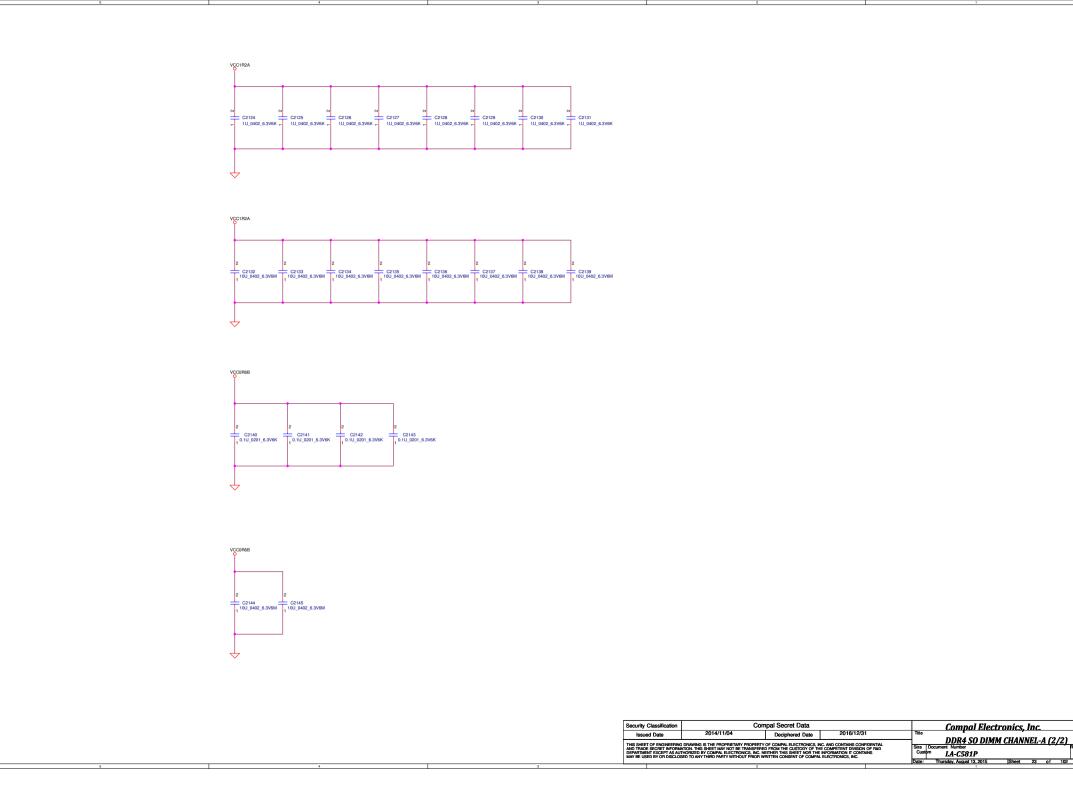


TABLE

SF	SF100 PIN HEADER INTERFACE (TOP VIEW)												
1	vcc	D12.1	GND	GND	2								
3	CS#	R322.2	R681.2	CLK	4								
5	MISO	R694.2	R674.2	MOSI	6								
7	(KEY)	N/A	N/A	(RESET)	8								

Security Classification						Compal Electron	ics. Inc.				
Issued Date	2014/11/04	Deciphered Date				SPI FLASH					
THIS SHEET OF ENGINEEDIN	SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CO										
	MATION, THIS SHEET MAY NOT BE TRANSFERE			OF R&D		Document Number					Rev
	JTHORIZED BY COMPAL ELECTRONICS, INC. N ISED TO ANY THIRD PARTY WITHOUT PRIOR W			INS	Custom	LA-C581P					0.5
					Date:	Thursday, August 13, 2015	Sheet	21	01	102	
	2					1					



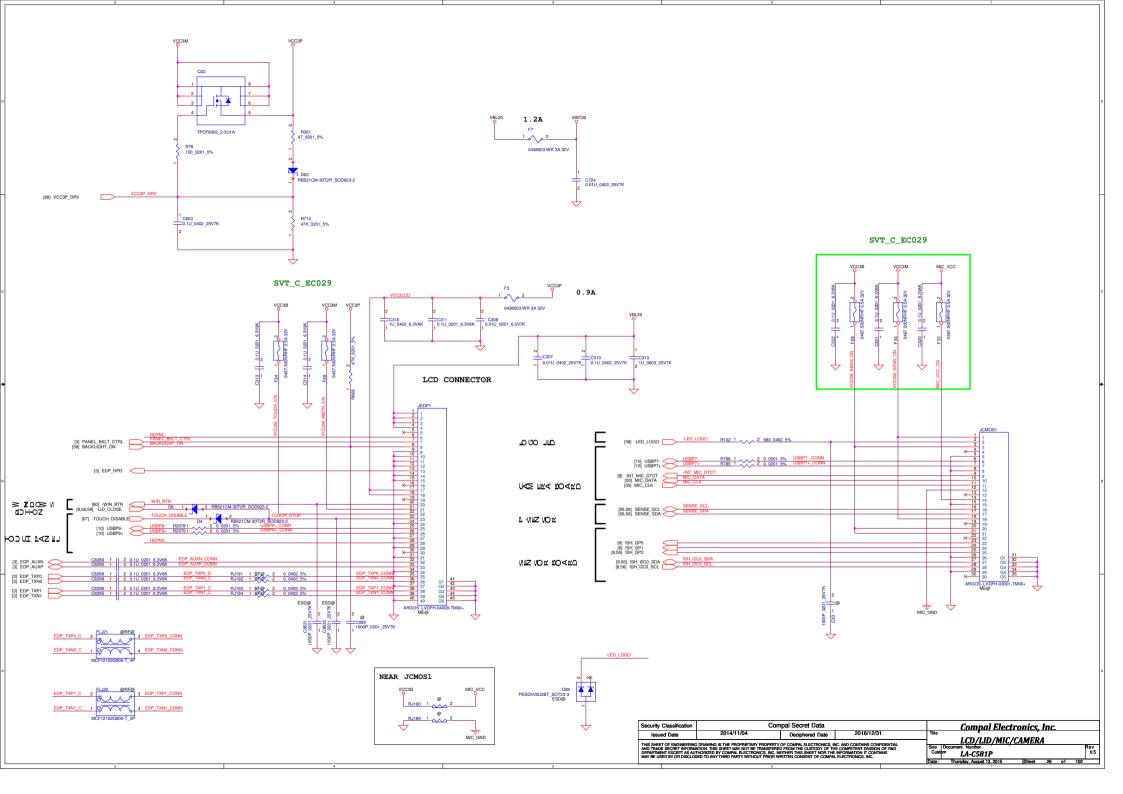


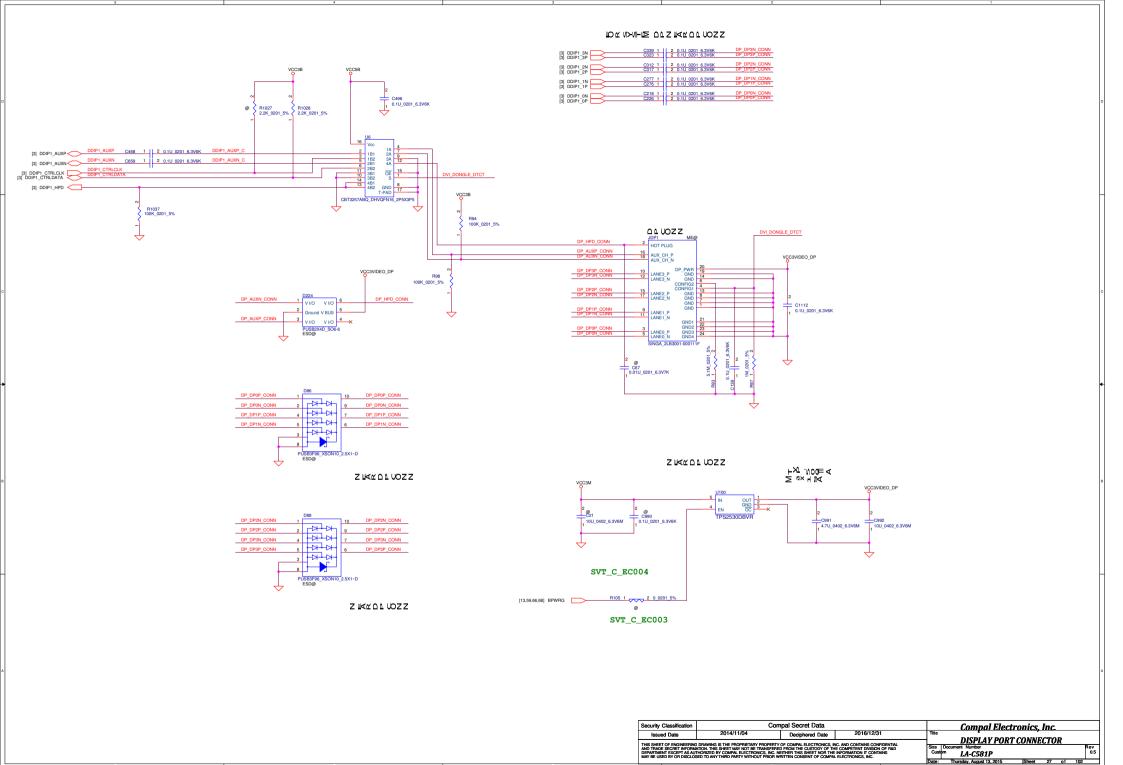


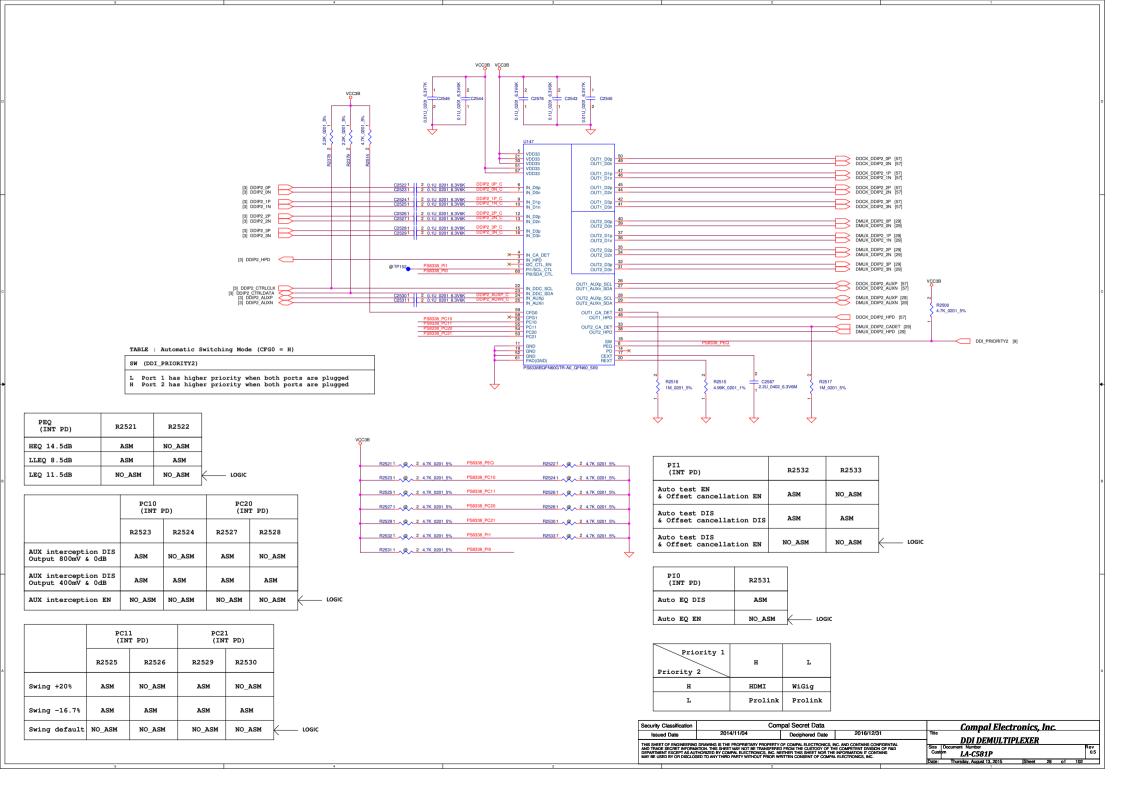
Security Classification	Con	npal Secret Data				Compal Electr	onics.	Inc.			
Issued Date	2014/11/04		Title	DI ANIZ							
THE SHEET OF ENGINEEDING	G DRAWING IS THE PROPRIETARY PROPERTY	IDENTIAL		BLANK							
						Document Number					lev
	Trade secret information. This sheet may not be transfered from the custody of the competent division of Triment except as authorized by compal electronics, inc. Neither this sheet nor the information it contail Se used by or disclosed to any third party without prior written consent of compal electronics, inc.					^m LA-C581P					0.5
						Thursday, August 13, 2015	Sheet	24	01	102	
	2										

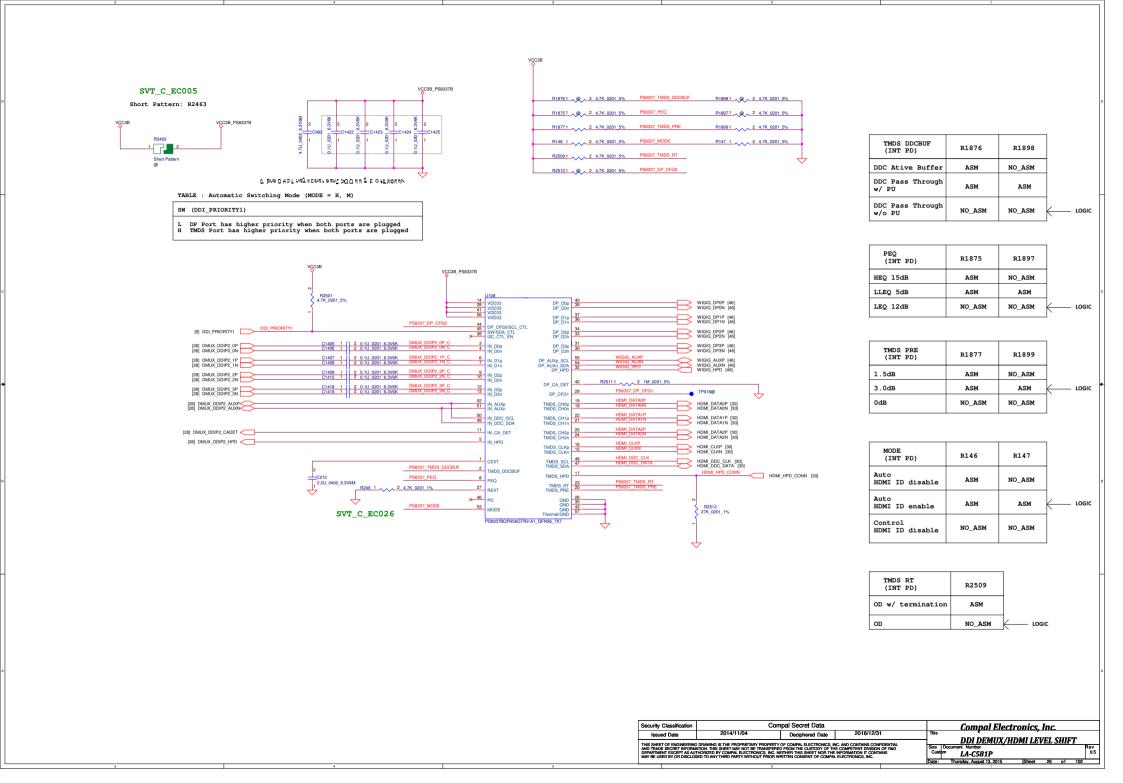


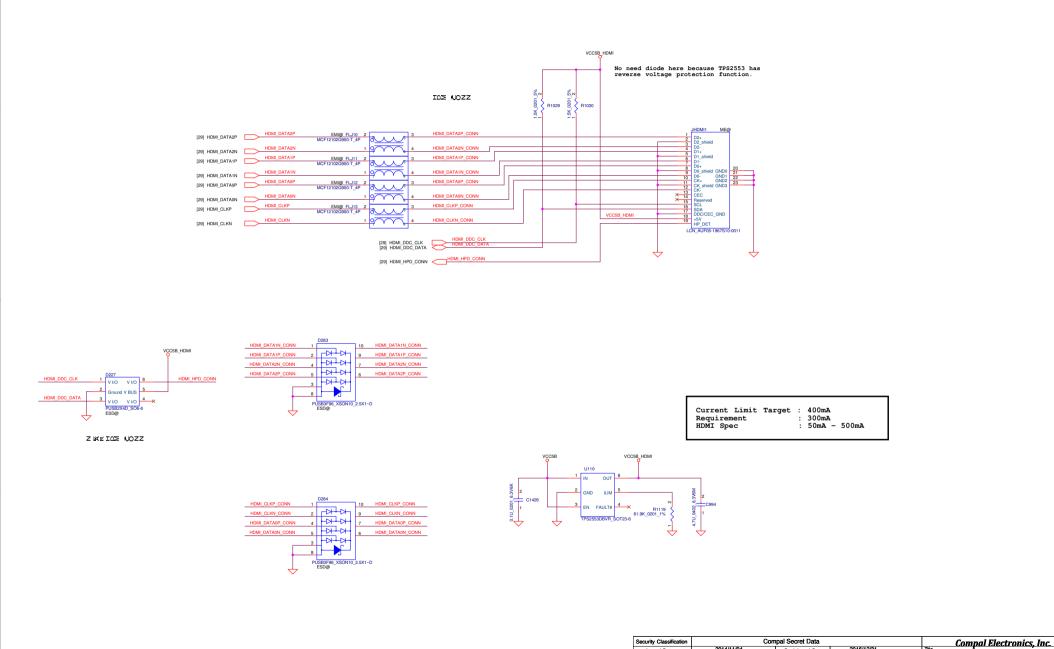
Security Cla	assification	Con	npal Secret Data					Compal El	lectronics	. Inc			
Issued	Date	2014/11/04	Deciphered Date	2016/12/3	1	Title		DI ANII					
AND TRADE SE	SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD TRIMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS. INC. RETHER THIS SHEET NOT THE INFORMATION IT CONTAINS.					Size Cust	Documen	BLANK Number LA-C581P					Rev 0.5
		SED TO ANY THIRD PARTY WITHOUT PRIOR W											
						Date:	Thurs	day, August 13, 201	5 Sheet	25	01	102	
		2						1					











2014/11/04

HIS SEET OF INCIDENTIAL DRIVING IS THE PROPRETIALY PROPERTY OF CAUSE ILL ECTIONICS, MC. AM. CONTRAIS CONFEDENTIAL OR TRACE SECTION REPORTED THAN THE PROPERTY OF THE CAMBETTER TRACES OF CONTRAINING THE CAMBETTER CAMBE

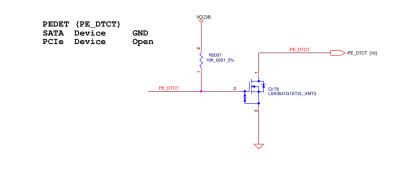
Issued Date

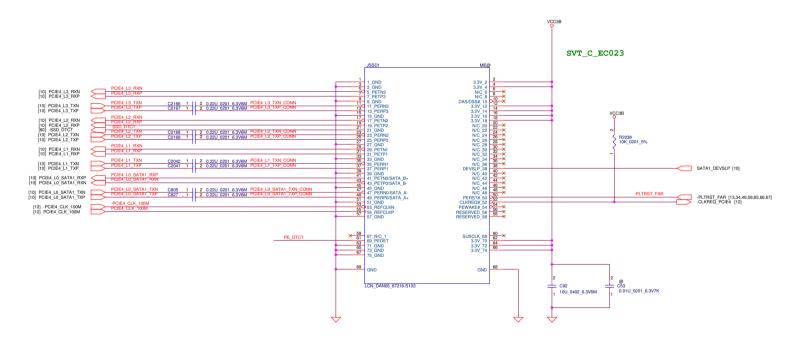
2016/12/31

HDMI CONNECTOR

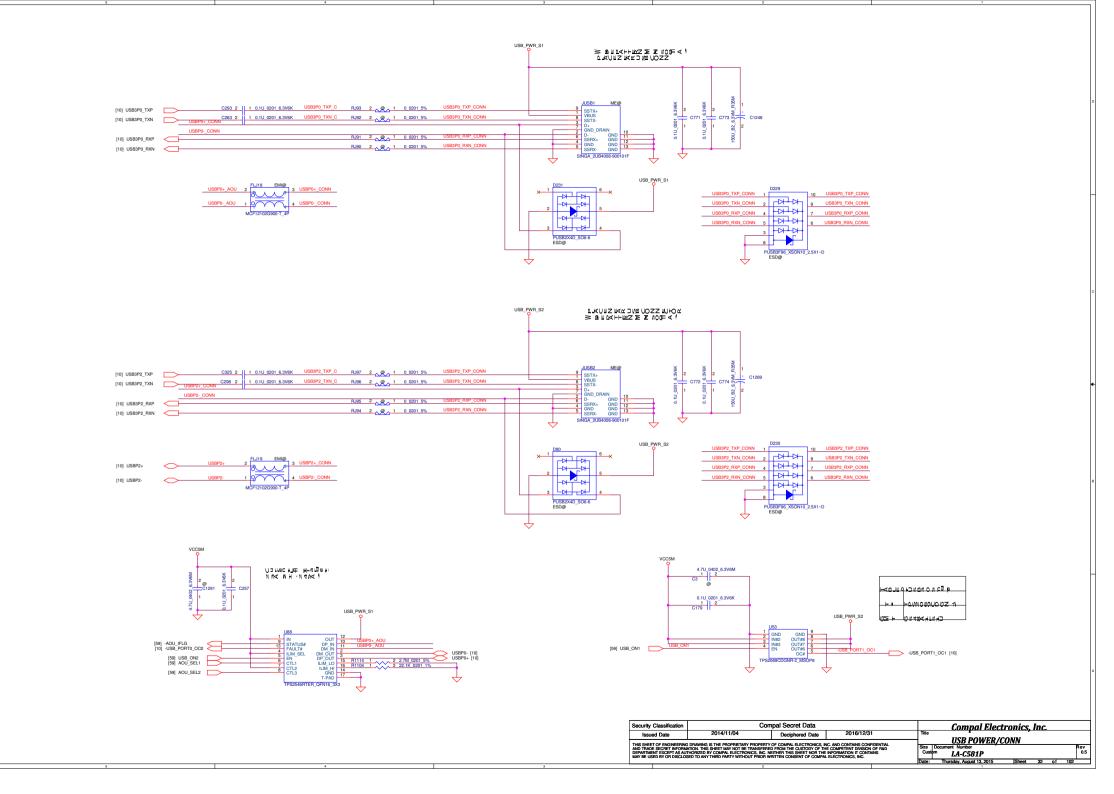
ment Number LA-C581P Thursday, August 13, 2015

Deciphered Date



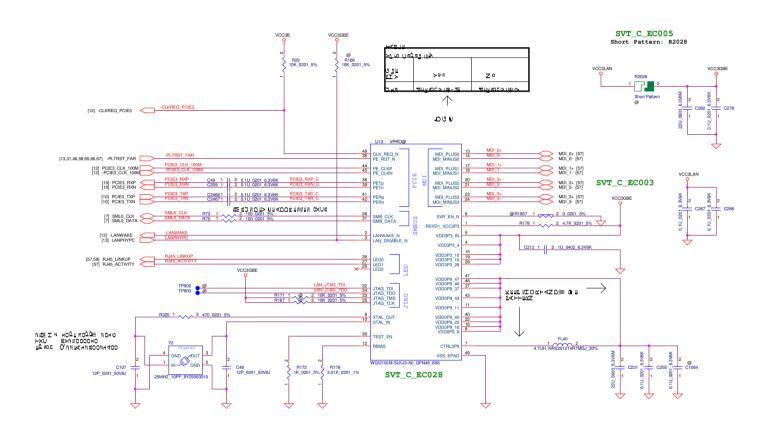


Security Classification						Compal Electr	onics.	Inc.			П
Issued Date					Title	M O COD CLOT					1
THIS SHEET OF ENGINEEDING	ET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL					M.2 SSD SLOT					
AND TRADE SECRET INFORM	SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD					Document Number				Rev	П
	DE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD BENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS SEED BY OR DISCOSED TO ANY THIRP PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPARE LELECTRONICS, INC.				Custon	LA-C301P				0.5	
					Date:	Thursday, August 13, 2015	Sheet	31	01	102	1
	2					1					





Security Classification	n Con	npal Secret Data				Compal Elec	tronics.	Inc.			
Issued Date	2014/11/04	Deciphered Date	2016/12/3	1	Title	DI AVII					
	SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD					BLANK Document Number				_	Rev
	RTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS IE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					™ <i>LA-C581P</i>					0.5
					Date:	Thursday, August 13, 2015	Sheet	33	01	102	
	2					1					



Security Classification						Co	mpal i	Electro	onics.	Inc.			
Issued Date	2014/11/04 Deciphered Date 2016/12/31				Title	CD	E IACU	COMI					
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AU	TO FENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPM. ELECTRONICS, INC. AND CONTAINS COL SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTOMY OF THE COMPETENT DIVISION SHEET OF THE COMPETENT OF THE PROPERTY WITHOUT PROPERTY WITHOUT COMPRESSED FROM THE COMPETENT OF THE COMPETENT OF THE PROPERTY WITHOUT PROPERTY WITHOUT PROPERTY WITHOUT COMPRESSED FOR THE SECRETARY AND THE PROPERTY WITHOUT PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PRO				Size Do Custom	cument Nu	<u>E JACK</u> ^{mber} C581P	<u>SUNVI</u>	LLE				Rev 0.5
MAY BE USED BY OR DISCLOS	SED TO ANY THIRD PARTY WITHOUT PRIOR W	RITTEN CONSENT OF COMPA	L ELECTRONICS, INC.		Date:		August 13, 2	015	Sheet	34	of	102	<u> </u>



Security Classification	Con	npal Secret Data				Compal Electro	nics.	Inc.			
Issued Date	2014/11/04		Title	DI AVII							
THIS SHEET OF ENGINEEDIN	DRAWING IS THE PROPRIETARY PROPERTY	IDENTIAL		BLANK							
						Document Number				F	tev
	TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVIS THE SECRET AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NETHER THIS SHEET NOT THE INFORMATION IT CELL SED BY OR DISCLOSED TO ANY THIED PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC					^m LA-C581P					0.5
						Thursday, August 13, 2015	Sheet	35	01	102	
	2					1					



Security Classification	n Con	npal Secret Data				Compal Electronics. Inc.			
Issued Date	2014/11/04	Deciphered Date	2016/12/31	1	Title	DI ANIZ			
THIS SHEET OF ENGINEE	RING DRAWING IS THE PROPRIETARY PROPERTY	OF COMPAL ELECTRONICS II	NO AND CONTAINS COME	IDENTIAL		BLANK			
	RMATION, THIS SHEET MAY NOT BE TRANSFERE					Document Number		Rev	
	AUTHORIZED BY COMPAL ELECTRONICS, INC. N LOSED TO ANY THIRD PARTY WITHOUT PRIOR W			NINS	Cust	^{bm} LA-C581P		0.5	
			-		Date:	Thursday, August 13, 2015 Sheet 36 of	102		
	2				1				



Security Classification	SSUED Date 2014/11/04 Deciphered Date 2016/12. SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS OF TRADE SECRET INFORMATION. THIS SHEET MAY THE OF THE TRANSFREED FROM THE CUSTORY OF THE COMPRETENT DWISS THREE TEMPORATION IT COMPARED TO THE TRANSFREED FROM THE SUETE TO RE THE PROPARATION IT COMPARED.					Compal Electronics	. Inc.			1
Issued Date	Issued Date 2014/11/04 Deciphered Date 2016 SHEET OF ENGINEERING DRAWING IS THE PROPRETARY PROPERTY OF COMPN. ELECTRONICS, INC. AND CONTANT TRADE SECRET REPORTATION TRADE SECRET REPORTATION TO SHEET ANY PROPERTY.				Title	DI ANIZ				1
THIS SHEET OF ENGINEERIN	Details Described Date of the Proprietary Property of Compal Electronics, Inc. and Contains Consecret Information. This sheet May not be transfered from the Custody of the Competent Division				_	<u>BLANK</u>				4
	DISCORPTION OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPALE LECTRONICS, INC. AND CONTAINS CON SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION					Document Number			Rev	1
				INS	Cust	™ <i>LA-C581P</i>			0.5	
					Date:	Thursday, August 13, 2015 Sheet	37	01	102	_
	2					1				_



Security Classification	Con	pal Secret Data				Compal Electr	onics.	Inc		
Issued Date	V				Title	DI ANIZ	,			
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AL	2014/11/04 Deciphered Date 2016/12/31 INSERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFINITION THE SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF THE AUTHORIZED BY COMPAL ELECTRONICS, INC. RAINER THIS SHEET NOT THE INFORMATION IT CONTRACTION.				Size Custo	BLANK Document Number m LA-C581P				Rev 0.5
	2			Da	ate:	Thursday, August 13, 2015	Sheet	38	01	102



Security C	Classification	Con	npal Secret Data				Compal Elect	ronics.	Inc.			
Issue	d Date	2014/11/04	Deciphered Date	2016/12/31		Title	DI ANIZ					
AND TRADE DEPARTMEN	SECRET INFORMATION OF THE SECRET INFORMATION OF THE SECRET AS AUTOMOTION OF THE SECRET INFORMATION OF THE SECRET INFORMATI	DRAWING IS THE PROPRIETARY PROPERTY ATION. THIS SHEET MAY NOT BE TRANSFERE THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W	D FROM THE CUSTODY OF THE	E COMPETENT DIVISION INFORMATION IT CONTA	OF R&D INS	Size Custo	BLANK Document Number M LA-C581P Thursday, August 13, 2015	Sheet				0.5
-		2				Date.	Thursday, August 13, 2013	Jonest	35	- 01	102	_



Security Classification	Corr	pal Secret Data				С	ompal E	lectro	nics.	Inc.			П
Issued Date					Title	n	LANK						٦
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AL	ATION. THIS SHEET MAY NOT BE TRANSFEREI THORIZED BY COMPAL ELECTRONICS, INC. N	E COMPETENT DIVISION INFORMATION IT CONTA	OF R&D INS	Size Custo	Document om L		15	Sheet	40	of	Re 102	ev 0.5	
	2						1		•				_



Security Classi	unity Classification Compal Secret Data							Com	nal El	ectro	onics.	Inc.			٦
Issued Dat	Issued Date 2014/11/04 Deciphered Date SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPRETY OF COMPAL ELECTRONICS, INC. AND THADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTORY OF THE COMPA					Title		BLA	III						٦
THIS SHEET OF EN	NCINEEDING	DRAWING IS THE DOODDIETADY DOODEDTY	IC AND CONTAINS COME	IDENTIAL											
	SOURCE DESIGNATION OF THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. ANY TRADE SCRIET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTOOY OF THE COM TRADE SCRIET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTOOY OF THE COM TRIMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. BETHER THIS SHEET NOT THE TRANSFERED.					Size	Docum	nent Numb	er					Re	
DEPARTMENT EXC	CEPT AS AUT	THORIZED BY COMPAL ELECTRONICS, INC. N	INFORMATION IT CONTA		Cust	pm 💮	LA-C	591P					1	0.5	
MAY BE USED BY	OR DISCLOS	SED TO ANY THIRD PARTY WITHOUT PRIOR W	RITTEN CONSENT OF COMPAI	L ELECTRONICS, INC.											_
						Date:	Th	iursday, Au	just 13, 201	5	Sheet	41	01	102	
		2							- 1						_



Security Classificati	n Cor	npal Secret Data				Compal Electr	onics.	Inc.			_
Issued Date	2014/11/04	2016/12/3	1	Title	DI ANIZ						
AND TRADE SECRET INF DEPARTMENT EXCEPT A	RING DRAWING IS THE PROPRIETARY PROPERTY RIMATION. THIS SHEET MAY NOT BE TRANSFER AUTHORIZED BY COMPAL ELECTRONICS, INC. I LOSED TO ANY THIRID PARTY WITHOUT PRIOR I	HE COMPETENT DIVISION E INFORMATION IT CONTA	OF R&D NNS	Custo	LA-USOIP					Rev 0.5	
	2			ĮD	Date:	Thursday, August 13, 2015	Sheet	42	-01	102	



Security Clas	sification	Con	npal Secret Data					Compal E	lectronics	. Inc			
Issued D	Sound Date 2014/11/04 Deciphered Date 2016/12/31 HEET OF PROMISSING DRAWING IS THE PROPRETARY PROPERTY OF COMPLE ELECTRONES, No. AND CONTANS CONFEDENTIAL MORE SECTEM PROPRIATION, THIS SHEET WAY NOT BE TRANSPERED PRICAL THE CITED FOR THE TOP THE TOP OF PAGE OF THE PROPRETARY OF THE PROPRETARY PROPERTY OF THE PROPRETARY OF THE PROPRETARY PROPRETARY OF THE PROPRETARY PROPRETARY OF THE PROPRETARY PROPRETARY PROPRETARY OF THE PROPRETARY PROPRETARY OF THE PROPRETARY PROPRET					Title		DIANIZ		,			
AND TRADE SEC DEPARTMENT EX	RET INFORM	ATION. THIS SHEET MAY NOT BE TRANSFERE	D FROM THE CUSTODY OF THE	E COMPETENT DIVISION INFORMATION IT CONTA	OF R&D	Size Cust		BLANK ment Number LA-C581P					Rev 0.5
			****			Date:	Т	hursday, August 13, 201	5 Sheet	43	01	102	



Security CI	lassification	Con	npal Secret Data				-	Compal Ele	ctronics.	. Inc.			
Issued	NO DATE TO FENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CO SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION.				1	Title		DE ANTE					
AND TRADE S	ECRET INFORM	REGISTERING DRAWING IS THE PROPRIETARY PROPERTY OF COURSE. LECTRONGS, INC. AND CONTAINS CONFIG PRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF XCEPT AS AUTHORIZED BY COMPETENT ELECTRONICS. IN. LEITHER THIS SHEET NOT THE INFORMATION IT CONTAIN					Document						Rev 0.5
		ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMM. ELECTRONICS, INC. AND CONTAINS C IRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTORY OF THE COMPETENT DINS CEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. RETHER THIS SHEET NOT THE INFORMATION IT CO				Custi		.A-C581P					0.5
						Date:	Thurso	fay, August 13, 2015	Sheet	44_	01	102	
		2						1					



Security Classificati

Issued Date

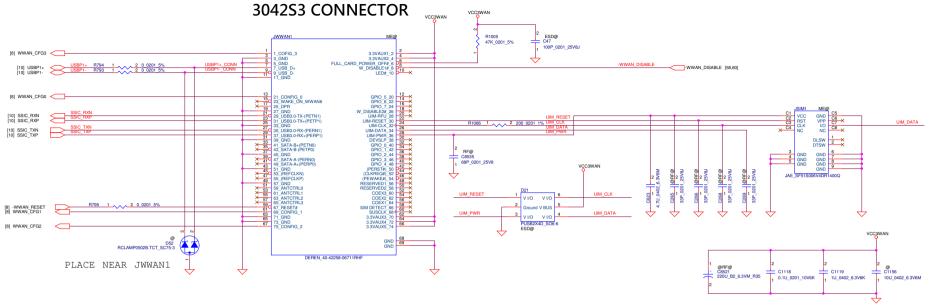
2014/11/04

THIS SEET OF ENDMESTING DAWNING IS THE PROMISE HAY PROMISE THE OF COMEN, IS EXTREMELY BY A CONTINUE COMPRISE THE OFFICE HAY PROMISED AND A CONTINUE COMPRISE THE OFFICE HAY PROMISED AND A CONTINUE CONTINUE AND A CONTINUE AND A

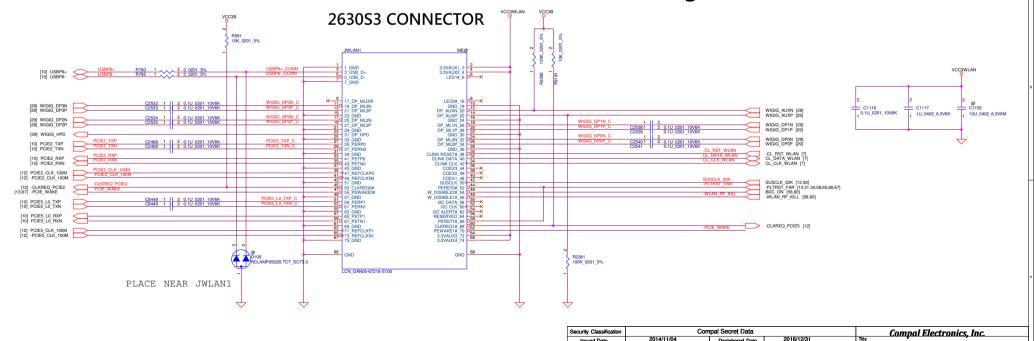
2016/12/31

Deciphered Date

TYPE-B M.2 CARD FOR WWAN



TYPE-A M.2 CARD FOR WLAN / Bluetooth / WiGig

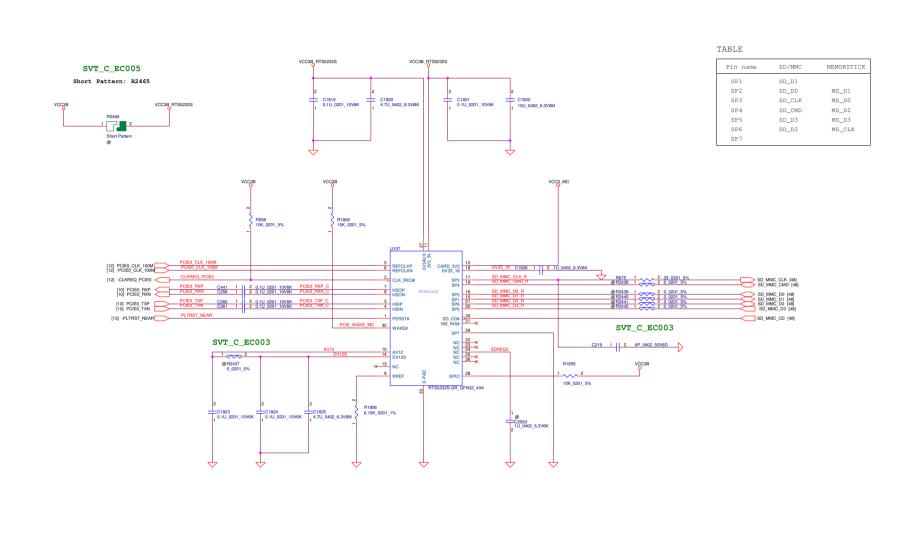


Deciphered Date

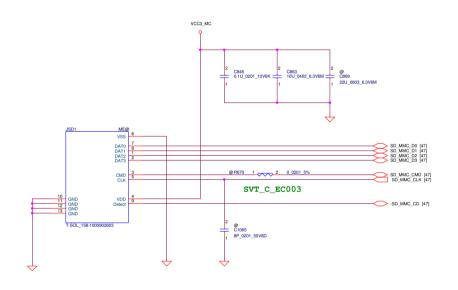
HING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTS

PCIE M.2 CARD SLOT

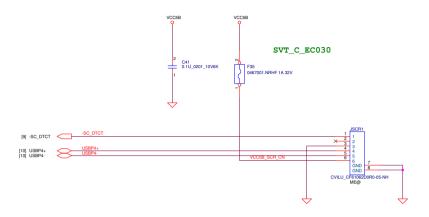
LA-C581P

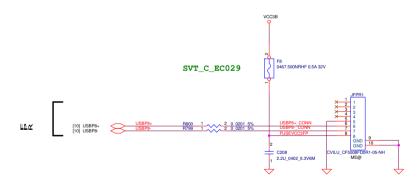


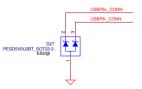
Security Classifi	ication	Cor	npal Secret Data				Co	mpal i	Electro	onics.	Inc.			
Issued Date	LIMITY Classification Compal Secret Data				1	Title	141	IDIA C	I DD 60	N/MIDA				
THE CHEET OF THE	J Date 2014/11/04 Deciphered Date 2016/12/31 OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENCE FOR CONTAINS CONFIDENCE AND CONTAINS OF THE COMPETENT DIVISION OF THE COMPETENT DIVISION OF THE CONTROL FOR CONTAINS CONTAIN				EIDENTIN				IRD CO.	<u>NI KU</u>	<u>LLLL b</u>	<u> </u>		
	Deliphered Date 2014/11/04 Deciphered Date 2016/12/31 TOF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFESS SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DYSION OF THE COMPETENT DY					Size	Document Nu	ımber						Rev
DEPARTMENT EXCE	Date 2014/11/04 Deciphered Date 2016/12/31 FENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENCE OF THE CONFIDENCE OF THE COMPATION THE SHEET HAW NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RECEIPT AS JUNEAUE BY COMPATION TO CONTAINS.					Cust	m LA-	C581P						0.5
						Date:	Thursday,	August 13, 2	015	Sheet	47	01	102	



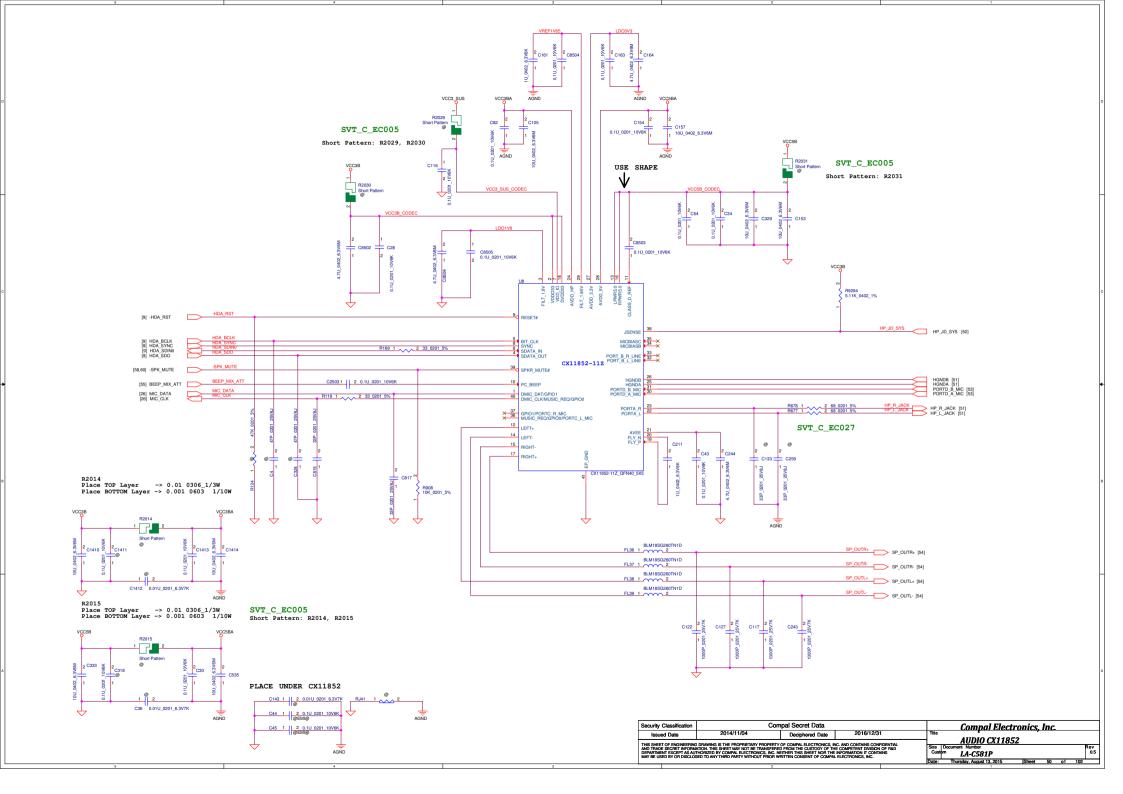
Security Classification	Con	pal Secret Data				Ca	mpal E	lectro	onics.	Inc.			
Issued Date	2014/11/04	Deciphered Date	2016/12/31		Title	1/1	EDIA CA	DD IN	TEDE	CE			
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AU	G DRAWING IS THE PROPRIETARY PROPERTY IATION. THIS SHEET MAY NOT BE TRANSFERE ITHORIZED BY COMPAL ELECTRONICS, INC. N	FROM THE CUSTODY OF THE	E COMPETENT DIVISION INFORMATION IT CONTA	OF R&D	Size Do Custom	cument N	EDIA CAI umber -C581P	KD IN	<u>I EKFA</u>	ICE			Rev 0.5
MAY BE USED BY OR DISCLO	SED TO ANY THIRD PARTY WITHOUT PRIOR W	RITTEN CONSENT OF COMPA	L ELECTRONICS, INC.		Date:		August 13, 20	15	Sheet	48	01	102	_

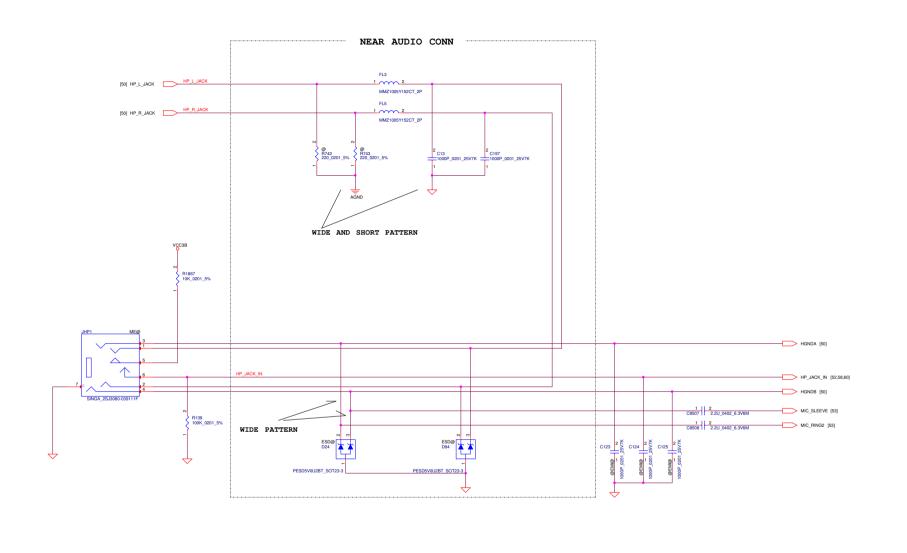




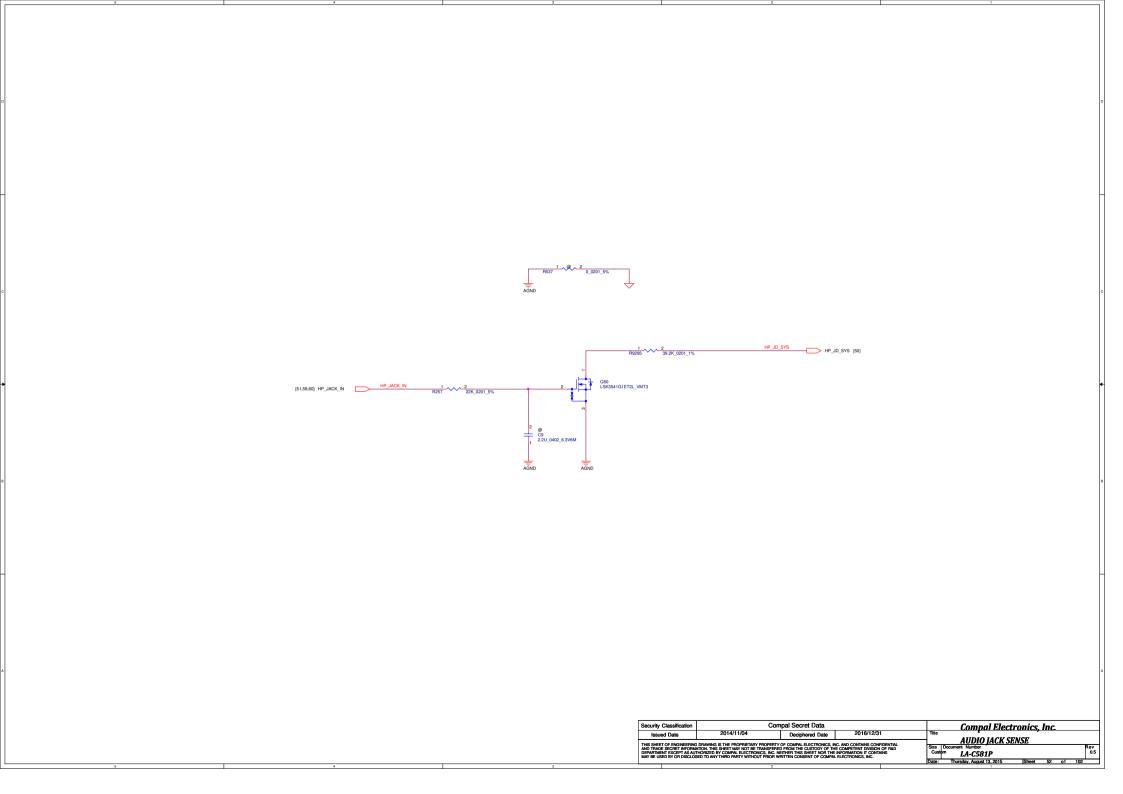


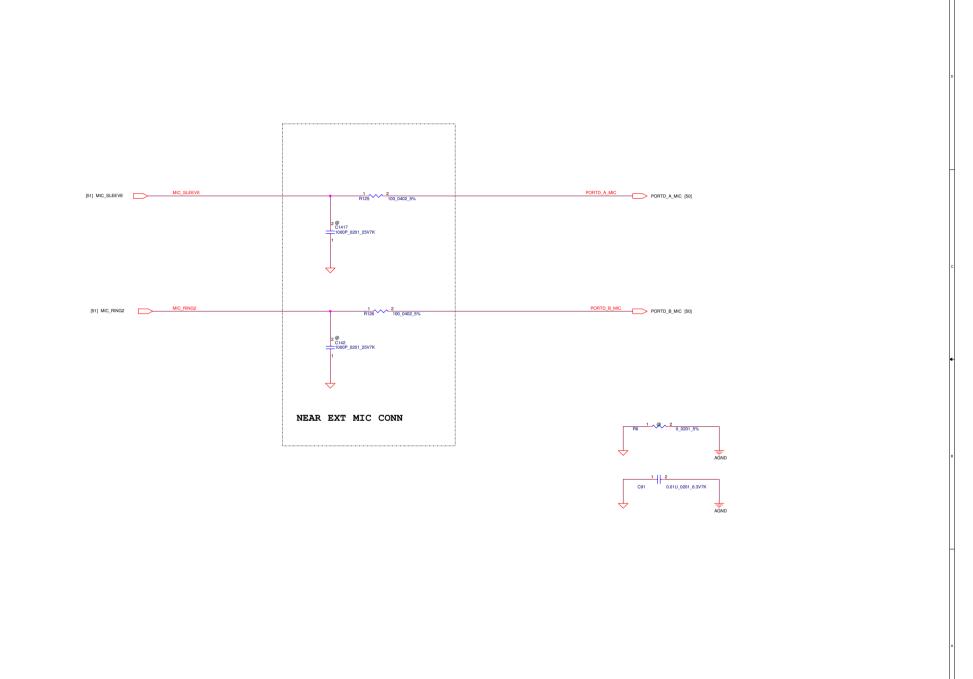
Security (Classification	Con	npal Secret Data				Compal Elec	tronics.	Inc.		
Issue	d Date	2014/11/04	Deciphered Date	2016/12/31	1	Title	CMADT CARD	/rnn			
THIS SHEET	OE ENGINEEDING	DRAWING IS THE PROPRIETARY PROPERTY	OF COMPAL ELECTRONICS II	NO AND CONTAINS COME	IDENTIAL		SMART CARD	<u> </u>			
AND TRADE	SECRET INFORM	ATION, THIS SHEET MAY NOT BE TRANSFERE	D FROM THE CUSTODY OF TH	IE COMPETENT DIVISION	OF R&D		Document Number				Rev
		THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W			NINS	Custon	" LA-C581P				0.5
						Date:	Thursday, August 13, 2015	Sheet	49	01	102
		2					1				



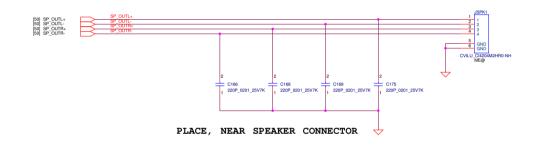


Security Classification	Con	npal Secret Data				Compal Elec	tronics.	Inc.			
Issued Date	Ued Date 2014/11/04 Deciphered Date 20 EET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONT DUE SECRET IN CRIMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE GUSTOOY OF THE COMPETE				Title	AUDIO CONN	CCTOD				
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AU	TO FINGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONT SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERIED FROM THE CUSTODY OF THE COMPETEN THE EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. RETHER THIS SHEET NOT THE INFORMATION.				Size Do Custom	AUDIO CONN current Number LA-C581P	ECIUK				Rev 0.5
man be does at on bloods	HEET OF BROINEERING DRAWNG IS THE PROPRIETARY PROPERTY OF COMPIA. ELECTRONICS, INC. AND COM DADE SECRET INCOMMENTON. THIS SHEET MAY NOT BE TRANSPERED FROM THE CUSTODY OF THE COMPETE INVEST EXCEPT AS AUTHORIZED BY COMPIA. ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATIC USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PROR WRITTEN CONSENT OF COMPIA. ELECTRONIC				Date:	Thursday, August 13, 2015	Sheet	51	01	102	

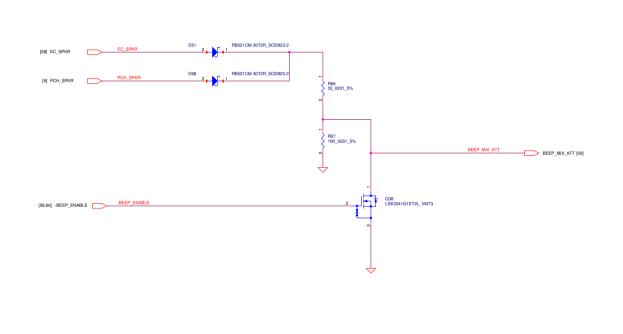




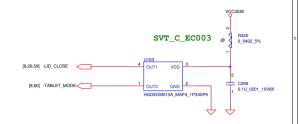
Security Class	sification	Con	npal Secret Data				(ompe	ıl Ele	ectro	nics.	Inc.			
Issued Da	ate	2014/11/04	Deciphered Date	2016/12/3	ı	Title		IIDIA	rvr:	MICI	/IP				
THIS SHEET OF E	ENGINEERING	DRAWING IS THE PROPRIETARY PROPERTY	OF COMPAL ELECTRONICS, II	NC. AND CONTAINS CON	IDENTIAL	Size	Document Procured Pro	<u>UDIO</u>	exi i	MIC I	/r				B
AND TRADE SECTOR DEPARTMENT FX	RET INFORMA	NTION. THIS SHEET MAY NOT BE TRANSFERE HORIZED BY COMPAL ELECTRONICS. INC. N	D FROM THE CUSTODY OF THE	HE COMPETENT DIVISION	OF R&D	Custo		A-C58	r D						Rev 0.5
		ED TO ANY THIRD PARTY WITHOUT PRIOR W				Date:		A-COO. av. August			Sheet			102	L.,
		2				Date:	Inurso	ay, August	13, 2015		Sneet	53	01	102	_



Security Class	ssification	Com	pal Secret Data				Compal Elect	ronics.	Inc.			
Issued D	Date	2014/11/04	Deciphered Date	2016/12/31		Title	AUDIO SPEAKI	ים מי				
THIS SHEET OF	ENGINEERING	DRAWING IS THE PROPRIETARY PROPERTY	OF COMPAL ELECTRONICS, II	NC. AND CONTAINS CONF	IDENTIAL OF DAD	Size	Document Number	K			—	Rev
DEPARTMENT E	EXCEPT AS AUT	HORIZED BY COMPAL ELECTRONICS, INC. NI ED TO ANY THIRD PARTY WITHOUT PRIOR W	EITHER THIS SHEET NOR THE	INFORMATION IT CONTA		Custo	m <i>LA-C581P</i>					0.5
						Date:	Thursday, August 13, 2015	Sheet	54	of	102	
		2					1					



Security Classification	Corr	pal Secret Data			Compal Ele	ctronics.	Inc.			
Issued Date	2014/11/04	Deciphered Date	2016/12/31	Title		/DATIOTIS	TED (14 D.F		
AND TRADE SECRET INFORMA DEPARTMENT EXCEPT AS AUT	DRAWING IS THE PROPRIETARY PROPERTY ATION. THIS SHEET MAY NOT BE TRANSFEREI THORIZED BY COMPAL ELECTRONICS, INC. IN SED TO ANY THIRD PARTY WITHOUT PRIOR W	FROM THE CUSTODY OF THE	E COMPETENT DIVISION OF R&D INFORMATION IT CONTAINS	Size Cus	LA-C301P		<u>ek c</u>	AKL		Rev 0.5
				Date:	: Thursday, August 13, 2015	Sheet	55	of	102	

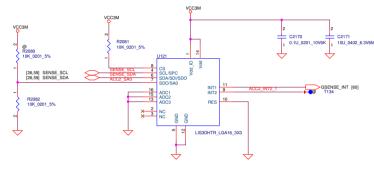


TABLE

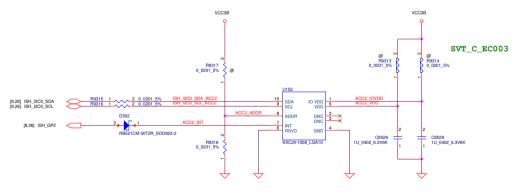
CS	Mode	Selection
Н	I2C	Mode
L	SPI	Mode



ACC2_SA0	Addr	ess	S	elect	ion
Н	32h	(W)	&	33h	(R)
L	30h	(W)	&	31h	(R)

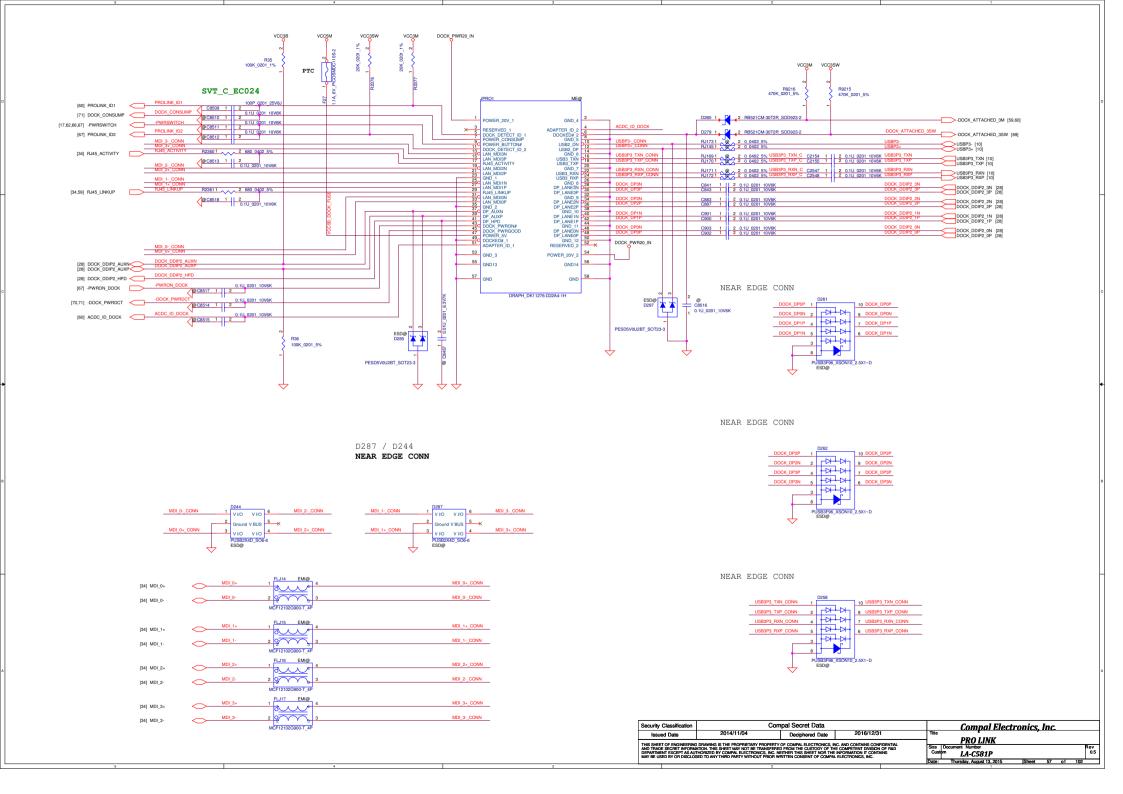


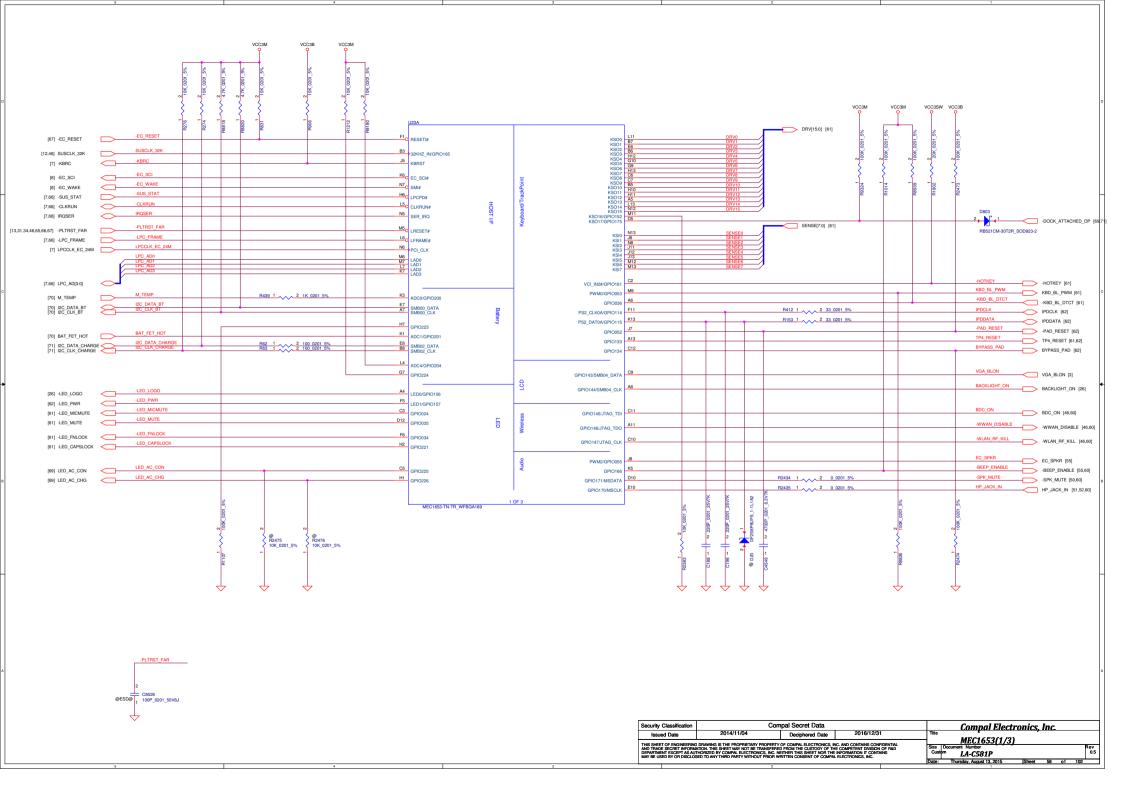
LIS3DHTR Address: 0x30h

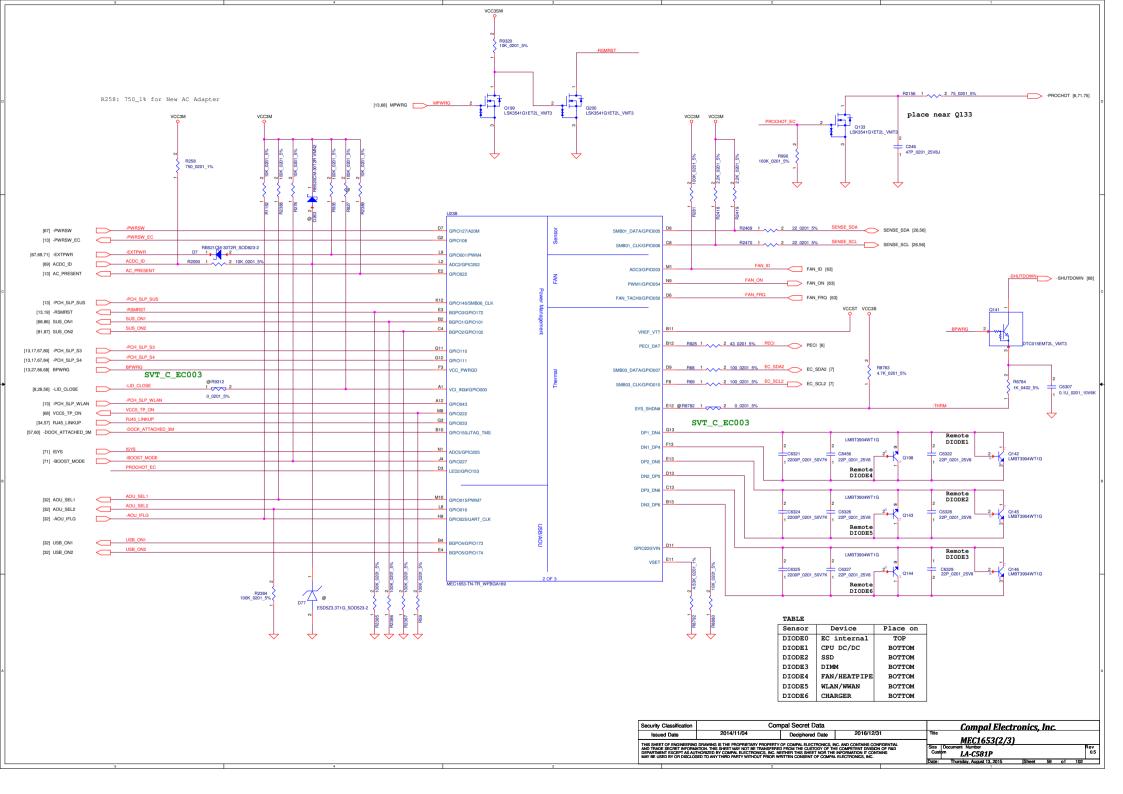


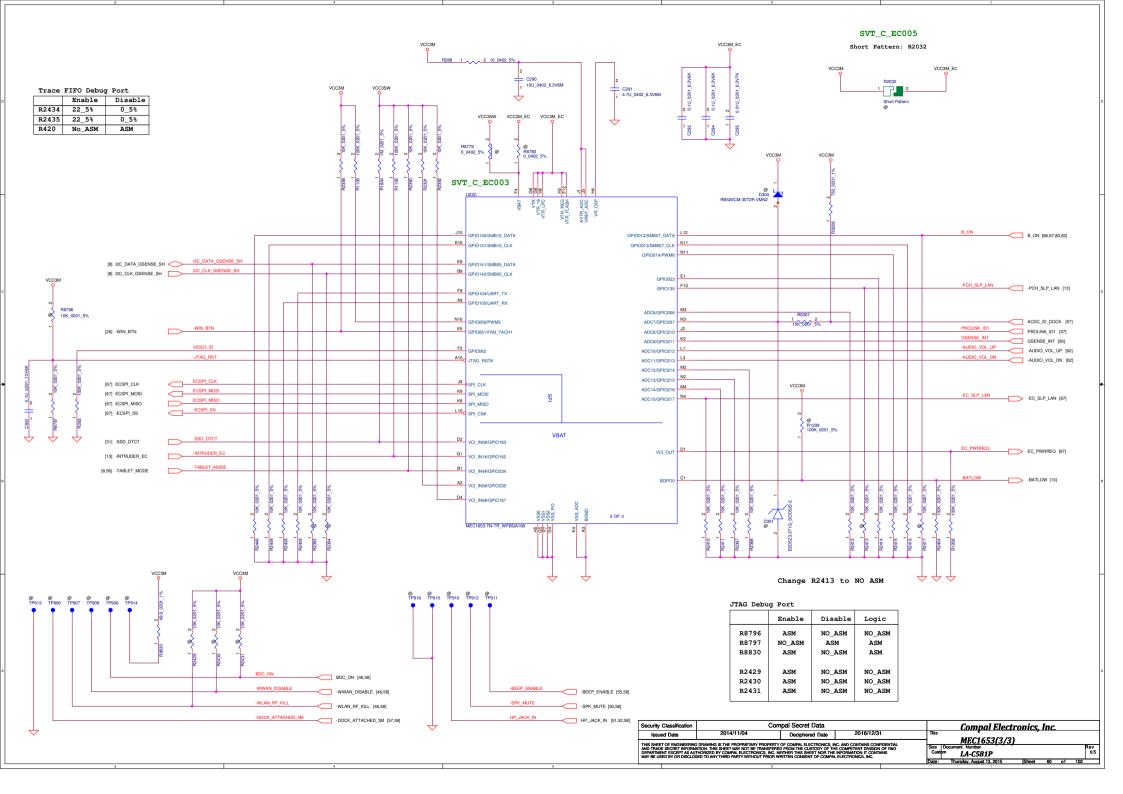
KXCJ9 Address: 0x1Ch

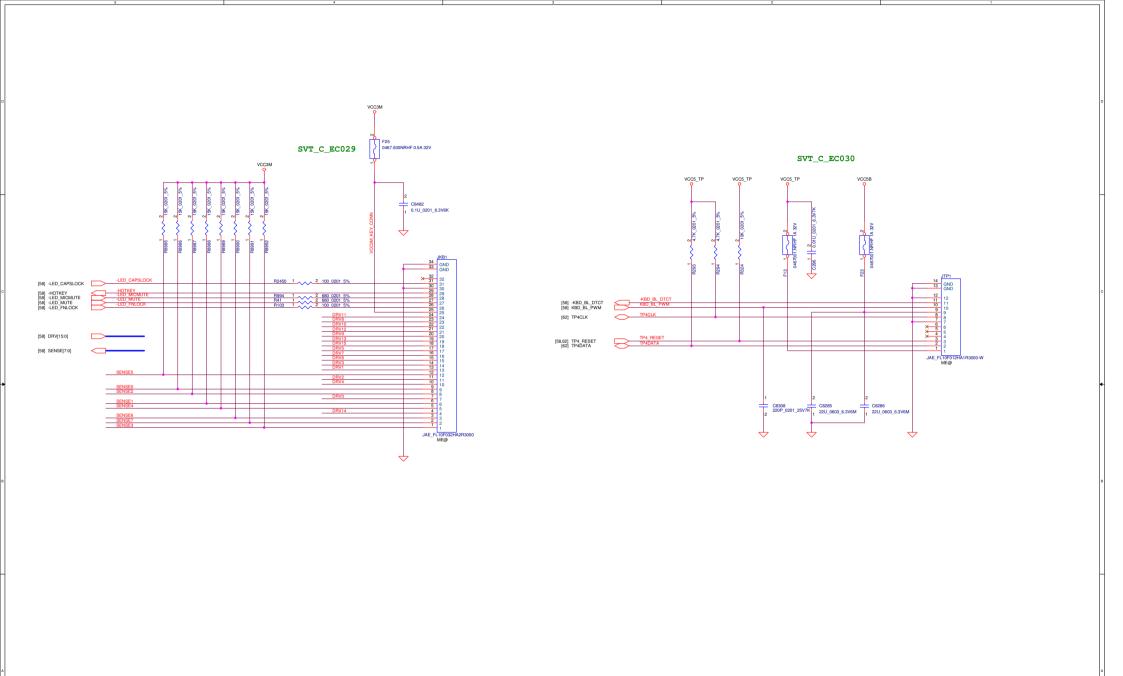
Security Classification	Cor	npal Secret Data				Compal Electi	ronics.	Inc.			l
Issued Date	2014/11/04	Deciphered Date	2016/12/3		Title	CENCOD INMED	EAGE				l
THIS SHEET OF ENGINEERIN	IG DRAWING IS THE PROPRIETARY PROPERTY	OF COMPAL ELECTRONICS I	NO AND CONTAINS CON	IDENTIAL		SENSOR INTER	<u> FALE</u>				J
AND TRADE SECRET INFOR DEPARTMENT EXCEPT AS A	MATION. THIS SHEET MAY NOT BE TRANSFERE UTHORIZED BY COMPAL ELECTRONICS, INC. P OSED TO ANY THIRD PARTY WITHOUT PRIOR V	D FROM THE CUSTODY OF THE	E COMPETENT DIVISION INFORMATION IT CONTA	OF R&D	Size Custi	Document Number M LA-C581P				Rev 0.5	l
					Date:	Thursday, August 13, 2015	Sheet	56	01	102	J



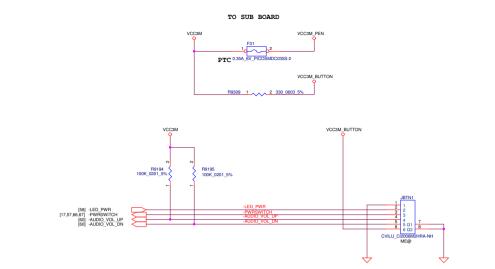


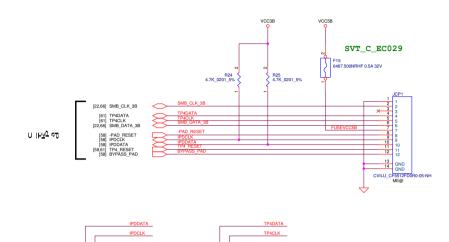


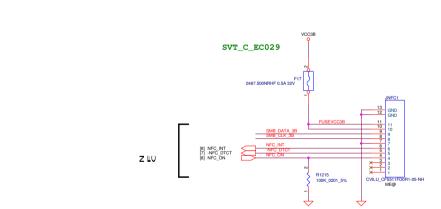




Security Cla	assification	Con	npal Secret Data				(ompa	il Elec	tronics.	Inc.			
Issued	Date	2014/11/04	Deciphered Date	2016/12/3	1	Title		TEVDO	4 D D /	PD ACIZ DA	01117			
THIS SHEET O	F ENGINEERING	DRAWING IS THE PROPRIETARY PROPERTY	OF COMPAL ELECTRONICS. I	NC. AND CONTAINS CON	FIDENTIAL				<u> 4KD/ I</u>	<u>TRACK PO</u>	<u>I NIL</u>			_
		ATION. THIS SHEET MAY NOT BE TRANSFERE THORIZED BY COMPAL ELECTRONICS. INC. N				Size Cust	Document		_					Rev 0.5
		SED TO ANY THIRD PARTY WITHOUT PRIOR W			AINS	Cusa	"" L	A-C581	P					0.5
						Date:	Thursd	ay, August 1	3, 2015	Sheet	61	01	102	
		2							1					

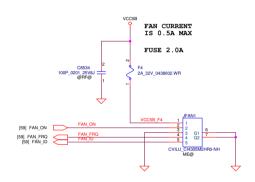






Security Classification	Con	npal Secret Data			Compal Elect		I		\neg
Issued Date	2014/11/04	Deciphered Date	2016/12/31	Title					-
AND TRADE SECRET INFORMA DEPARTMENT EXCEPT AS AUT	DRAWING IS THE PROPRIETARY PROPERTY IXTON. THIS SHEET MAY NOT BE TRANSFERE HORIZED BY COMPAL ELECTRONICS, INC. N ED TO ANY THIRD PARTY WITHOUT PRIOR W	D FROM THE CUSTODY OF THE	E COMPETENT DIVISION OF R&D INFORMATION IT CONTAINS	Size Cust	TOUCH PAD/N, Document Number M LA-C581P Thursday, August 13, 2015	FC/BUT	TON	F	ev 0.5

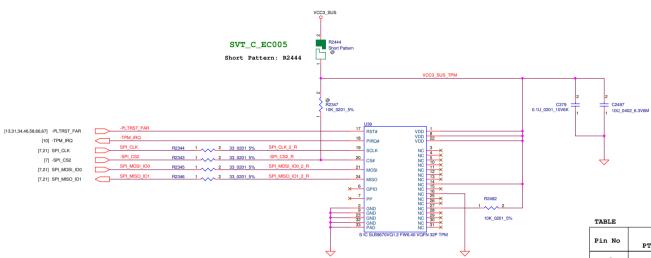
VCC3M_PEN



Security Classification	Con	npal Secret Data				Compal Electi	onics.	Inc.		
Issued Date	2014/11/04	Deciphered Date	2016/12/3		Title	EAN CONNECTO	,			
THIS SHEET OF ENGINEERIN	G DRAWING IS THE PROPRIETARY PROPERTY	OF COMPALE FOR TRONICS II	NC AND CONTAINS CON	IDENTIAL		FAN CONNECTO	<u> IK</u>			
AND TRADE SECRET INFORI	MATION. THIS SHEET MAY NOT BE TRANSFERE	D FROM THE CUSTODY OF TH	IE COMPETENT DIVISION	OF R&D	Size Do	ocument Number				Rev 0.
	JTHORIZED BY COMPAL ELECTRONICS, INC. N ISED TO ANY THIRD PARTY WITHOUT PRIOR W			INS	Custom	LA-C581P				0.5
					Date:	Thursday, August 13, 2015	Sheet	63	01	102
	2					1				



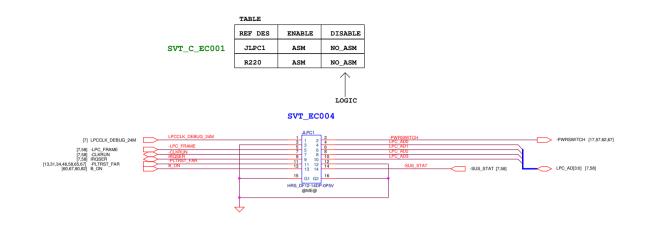
Security Classification	Con	npal Secret Data				Compal Ele	ctronics.	Inc.			
Issued Date	2014/11/04	Deciphered Date	2016/12/3	1	Title	DI ANIZ					
AND TRADE SECRET INFOR	NG DRAWING IS THE PROPRIETARY PROPERTY IMATION. THIS SHEET MAY NOT BE TRANSFERE JUTHORIZED BY COMPAL ELECTRONICS. INC. N	D FROM THE CUSTODY OF TH	HE COMPETENT DIVISION	OF R&D	Size Custi	Document Number					Rev 0.5
	OSED TO ANY THIRD PARTY WITHOUT PRIOR W			-	Date:	LA-C581P Thursday, August 13, 2015	Sheet	64	of	102	
	2										

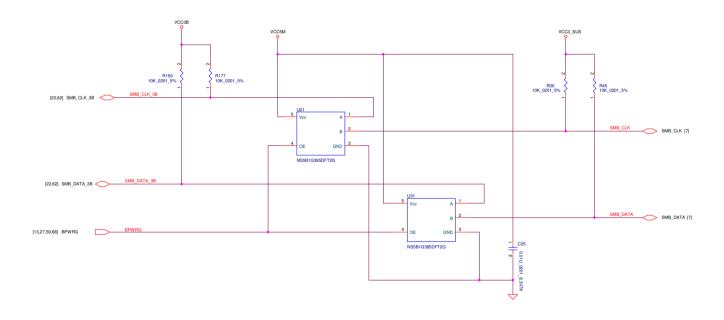


-Change FW version of Infineon TPM to 6.40 -Change Nuvoton parts number to NPCT650LB0YX

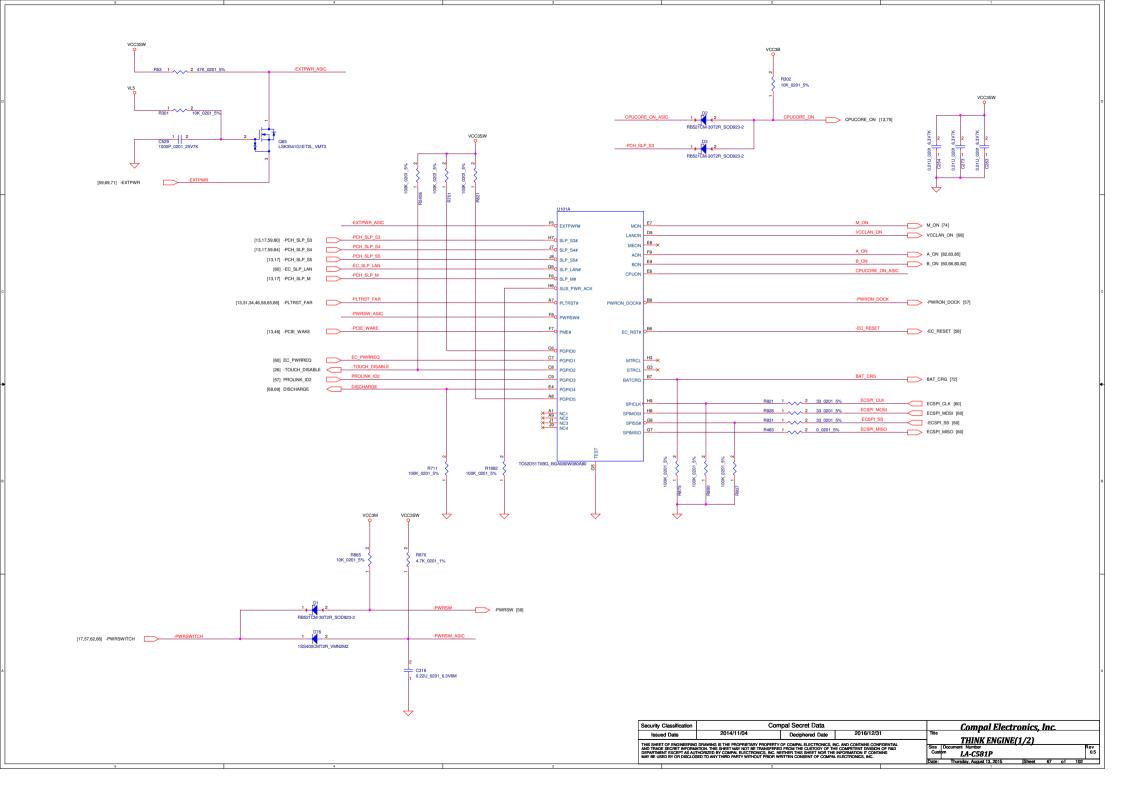
TABLE			
Pin No	TCG PTP Spec (v38)	Infineon SLB9670VQ1.2 FW 6.40	Nuvoton NPCT650LB0YX
1	VDD	VDD	VSB
2	GND	GND	NC
3	GPIO	NC	GPX/GPIO2
4	GPIO	NC	PP
5	NC	NC	TEST
6	VNC/GPIO	GPIO	GPIO3
7	GPIO/VDD	PP	NC
8	VDD	VDD	VDD
9	GND	GND	GND
10	VNC	NC	NC
11	NC	NC	NC
12	NC	NC	Reserved
13	VNC/GPIO	NC	GPIO4
14	VDD	NC	VDD
15	NC	NC	DNC
16	GND	NC	GND
17	SPI_RST#	RST#	SPI_RST#
18	SPI_PIRQ#	PIRQ#	SPI_PIRQ#
19	SPI_CLK	SCLK	SCLK
20	SPI_CS#	CS#	SCS#
21	MOSI	MOSI	MOSI
22	VDD	VDD	VDD
23	GND	GND	GND
24	MISO	MISO	MISO
25	NC	NC	NC
26	NC	NC	NC
27	NC	NC	(SERIRQ)
28	NC	NC	DNC
29	VNC/ GPIO	NC	GPIO0
30	VNC/ GPIO	NC	GPIO1
31	VNC	NC	NC
32	GND	GND	GND

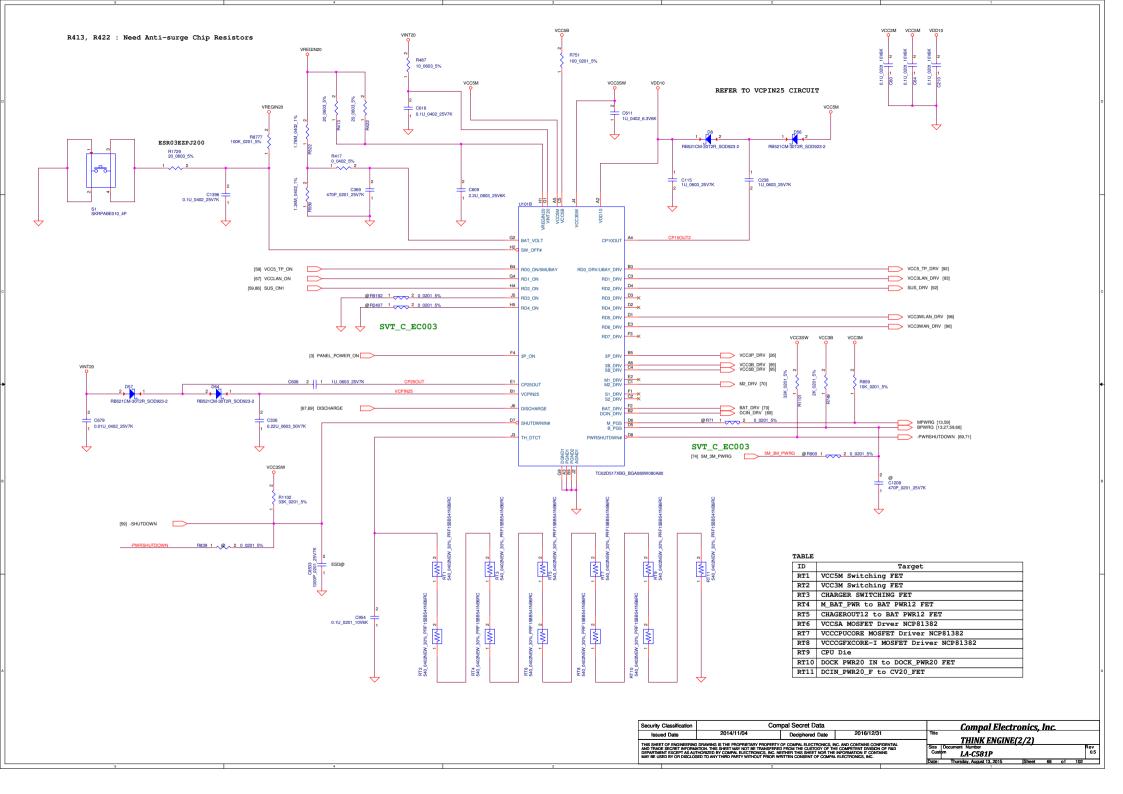
Security Classification	Corr	npal Secret Data			C	omo	al El	ectro	onics.	Inc.		_	
Issued Date	2014/11/04	Deciphered Date	2016/12/31	Title		ICCD.	rar.	TDIA -					
AND TRADE SECRET INFORMATION OF TRADES AND TRADES SECRET INFORMATION OF TRADES AND TRADE	DRAWING IS THE PROPRIETARY PROPERTY ATION. THIS SHEET MAY NOT BE TRANSFEREI THORIZED BY COMPAL ELECTRONICS, INC. NI SED TO ANY THIRD PARTY WITHOUT PRIOR W	D FROM THE CUSTODY OF THE	HE COMPETENT DIVISION OF R&D EINFORMATION IT CONTAINS	Size Cus	ument I			<u>TPM 1</u>	<u>l.2</u>				Rev 0.5
				Date:	Thursda	, August	t 13, 2015	5	Sheet	65	01	102	

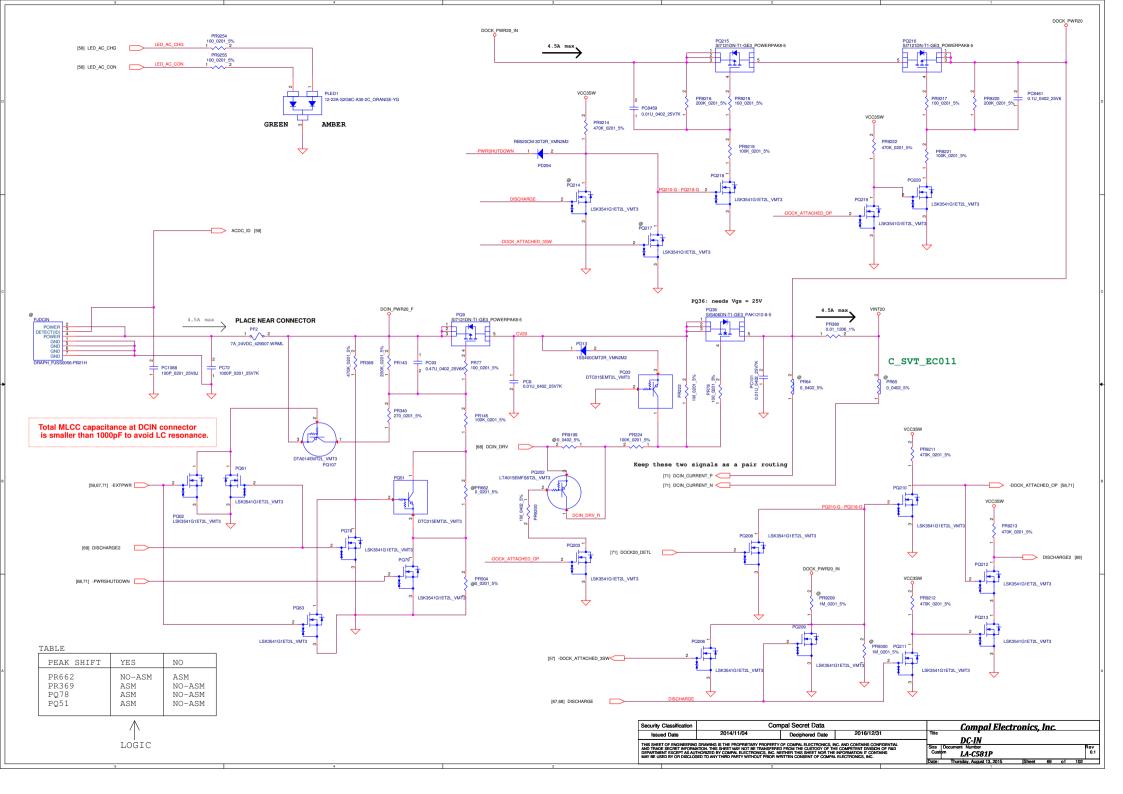


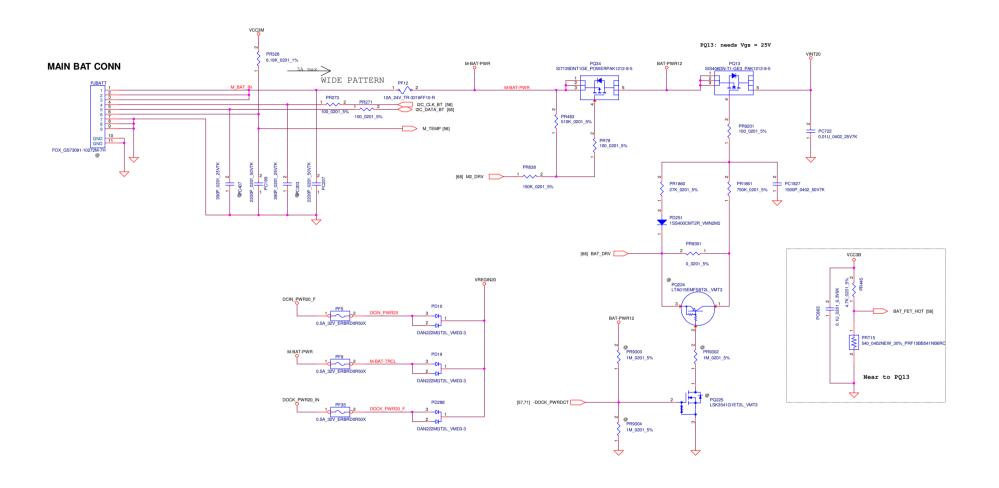


Security Classification	urity Classification Compal Secret Data				Compal Electronics, Inc.									
Issued Date	2014/11/04 Deciphered Date 2016/12/31			Title								0 D		
DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOT THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.					Cus	tom	ment Nu	mber C581 F	,	H/LPC		JG PC		Rev 0.5
2					Date:		nursday,	August 13.	2015	Sheet	66	01	102	

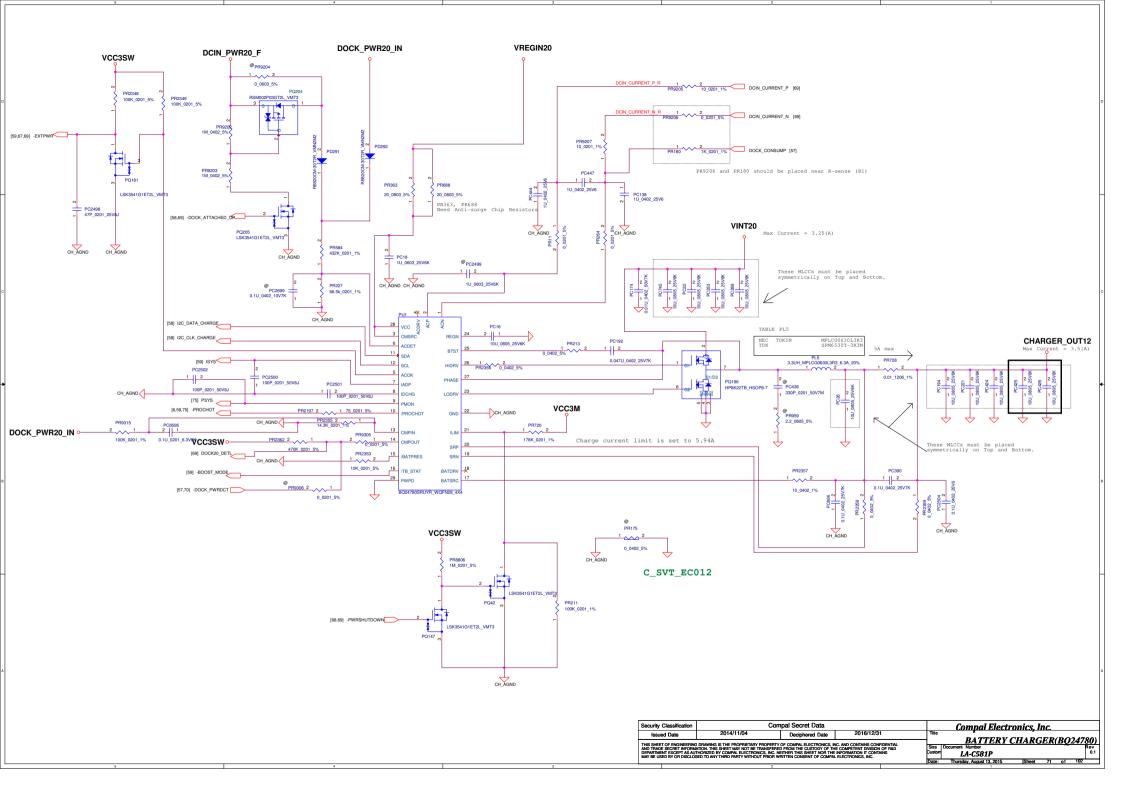


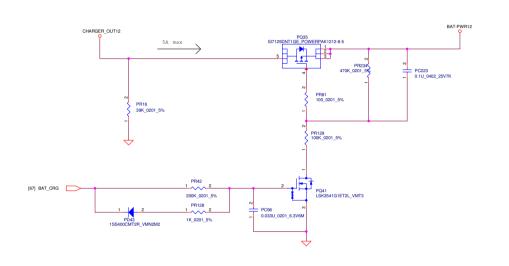






Security Classification Compal Secret Data					Compal Electronics. Inc.									
Issued	d Date 2014/11/04 Deciphered Date 2016/12/31					Title			NU ININ	ur				
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD						Size	Document	BATTEI Number	CY INP	U I			-	Rev
AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSPERED FROM THE COSTOUT OF THE COMPETENT DIVISION OF HAD 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.							m L	A-C581	P					0.1
						Date:	Thursd	ay, August 1	3, 2015	Sheet	70	01	102	

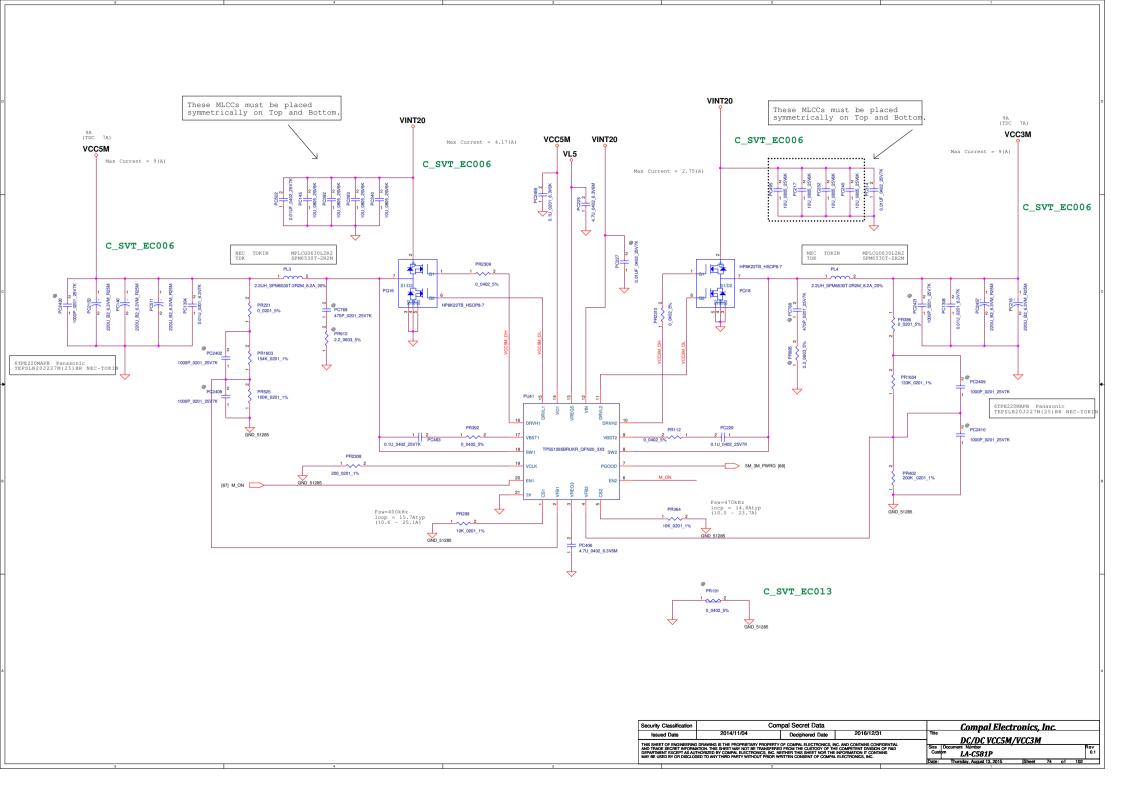


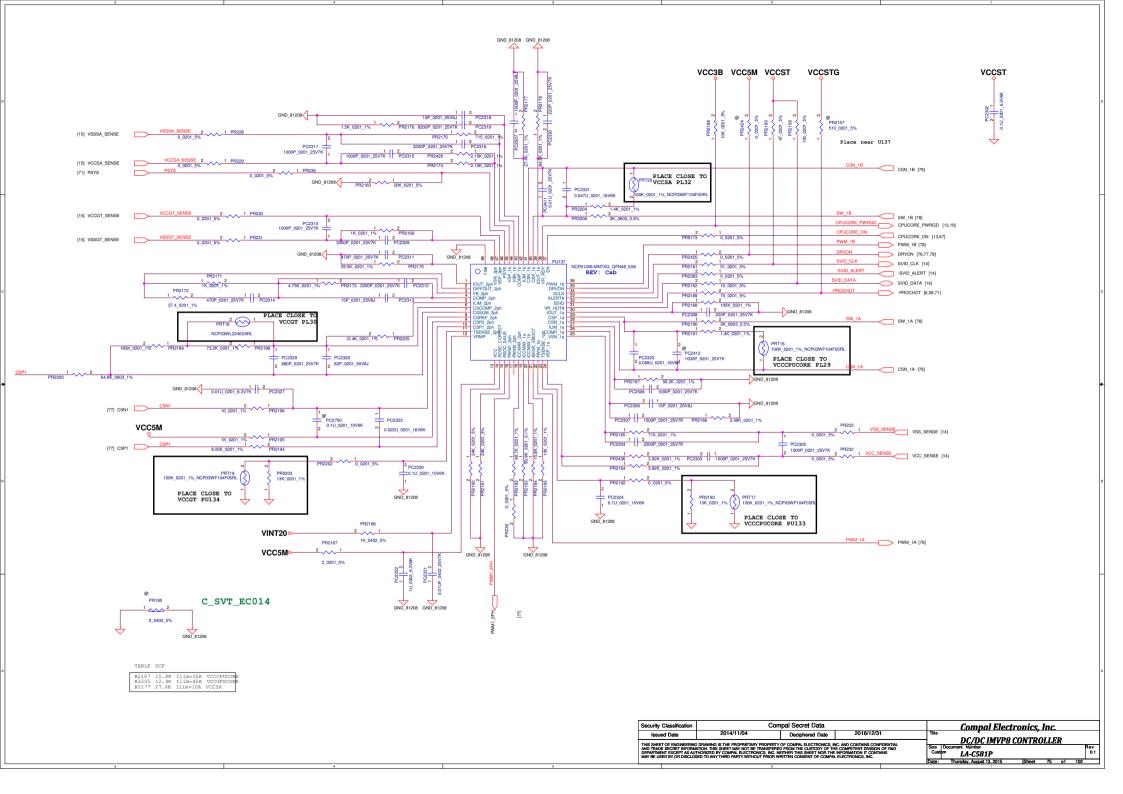


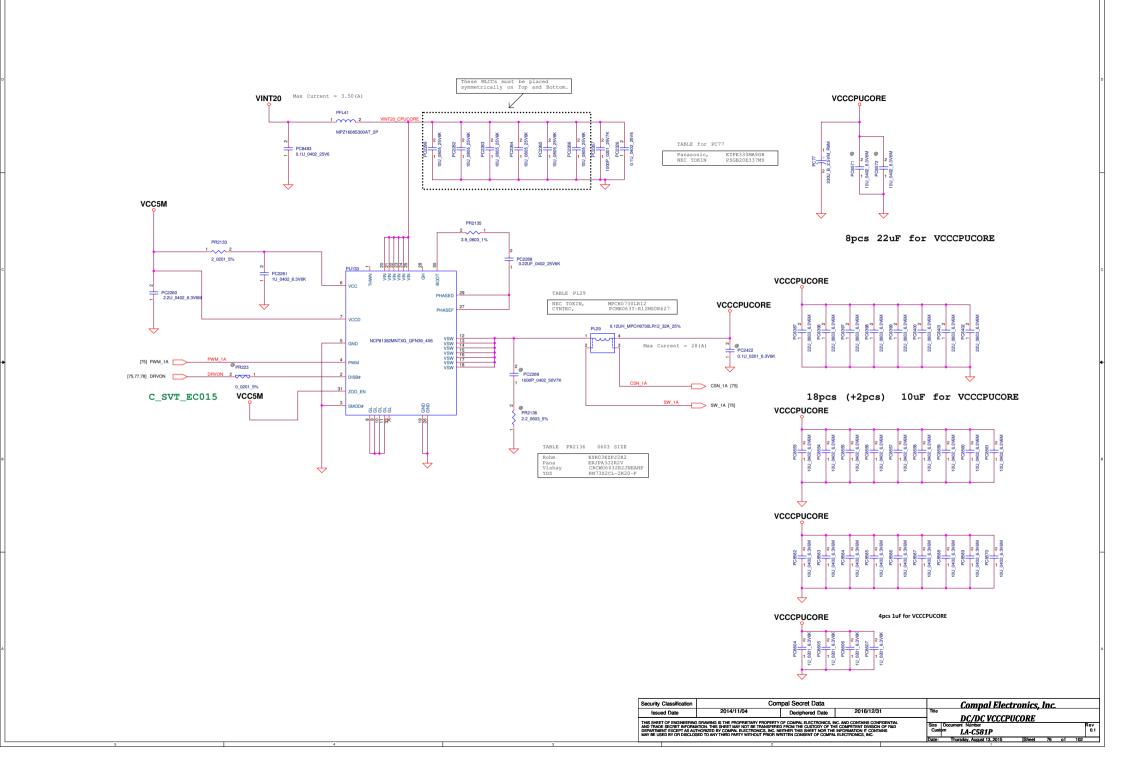
Security Classification	n Compal Secret Data				Compal Electronics. Inc.								
Issued Date	2014/11/04 Deciphered Date 2016/12/31				Title	CI	IADCE	eri rev	'AD				
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRACE SCENET IN POPULATION. THIS SHEET HAM NOT BE TRANSFERED FROM THE CUSTORY OF THE COMPETENT DROBOL OF BID WAY THE LIBERT OF THE CONFIDENT OF THE CONFIDENT OF THE CONFIDENT OF COMPAL ELECTRONICS, INC.					Size Custo	Document N	IARGE S umber -C581P	<u>ELEC I</u>	<u>UK</u>				Rev 0.1
					Date:	Thursday	August 13, 2	015	Sheet	72	01	102	
	2	The state of the s					1						

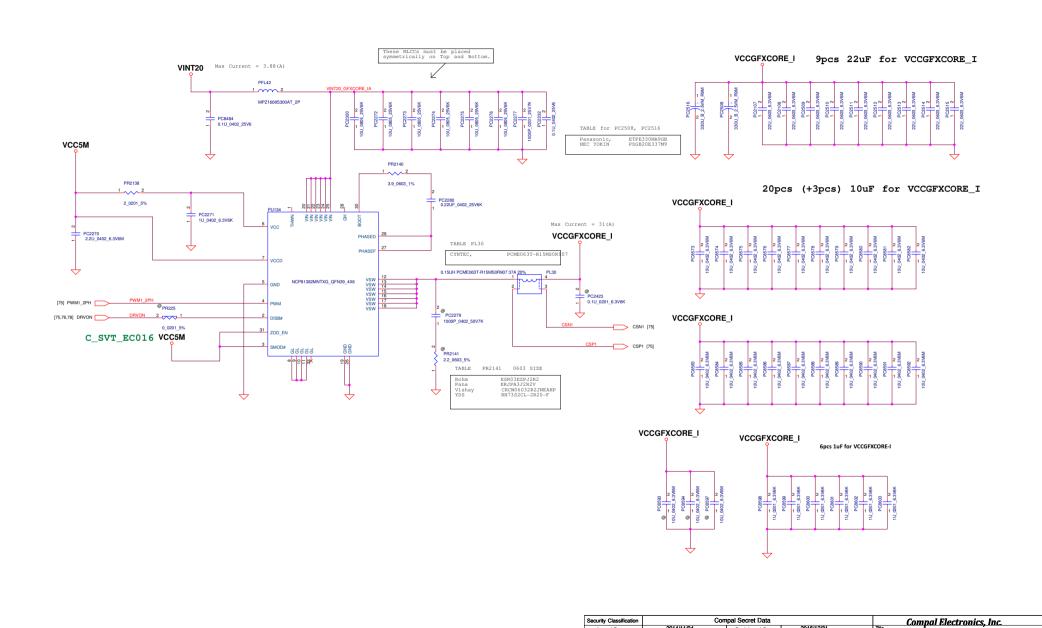


Security Classification	Con	npal Secret Data				Compal Electr	onics.	Inc.		
Issued Date					Title	DI ANIZ				
THE SHEET OF ENGINEEDI	NG DRAWING IS THE DOODDIETARY PRODERTY	NO AND CONTAINS COME	IDENTIAL		BLANK					
	T OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAI E SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT					Document Number				Rev
	IOE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT MENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NETHER THIS SHEET NOR THE INFORMATION USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS				Cust	^m LA-C581P				0.5
					Date:	Thursday, August 13, 2015	Sheet	73	01	102
	2					1				



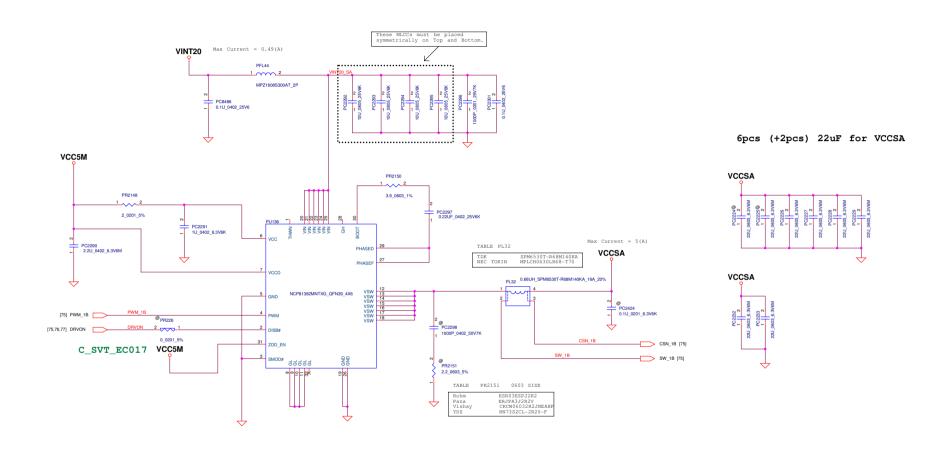






DC/DC VCCGFXCORE I

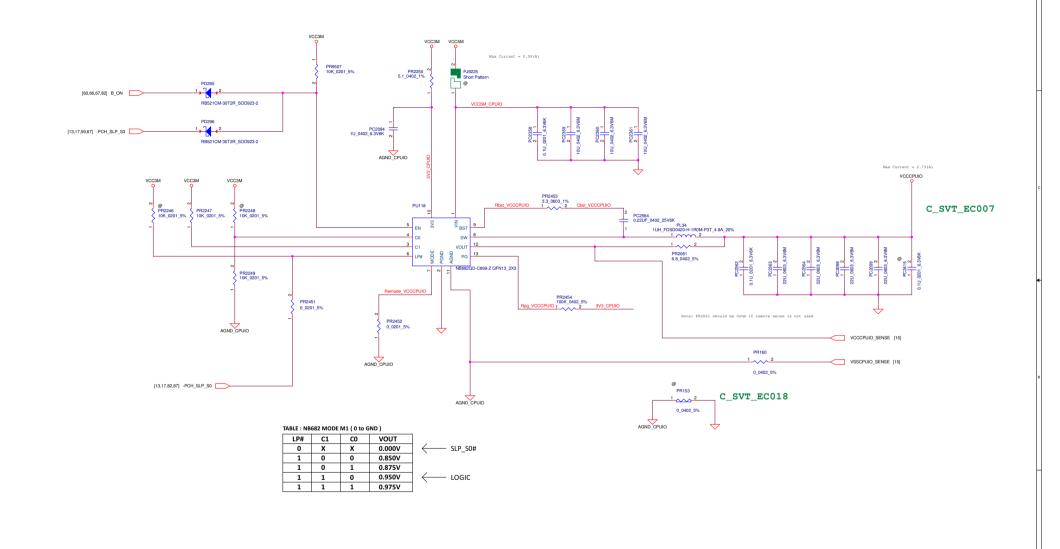
LA-C581P



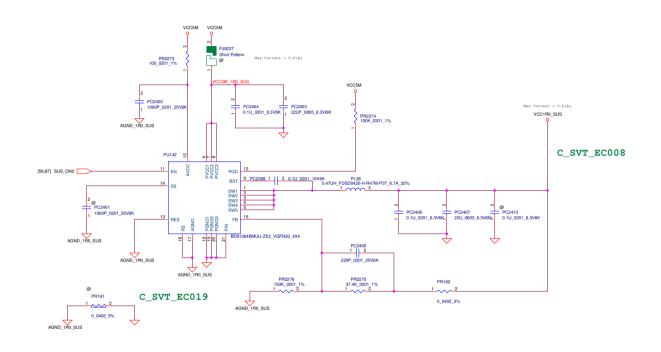
Security Classi	fication	Compal Secret Data				Compal Elec	tronics.	Inc.		
Issued Dat	2014/11/04	Deciphered Date	2016/12/3	ı	Title	DC/DC VCCCA	OLCDO1	102)		
THE CHEET OF EA	HEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS. INC. AND CONTAINS CON					DC/DC VCCSA	NUPBIS	821		
	TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION					Document Number				Rev
DEPARTMENT EXC	THADE SECRET INFORMATION. THIS SHEET MAY NOTI BE THANSFERED FROM THE CUSTODY OF THE COMPETENT DIVI RTIMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT C BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC				Cust	m <i>LA-C581P</i>				0.1
	** ** **				Date:	Thursday, August 13, 2015	Sheet	78	of	102
	2					1				



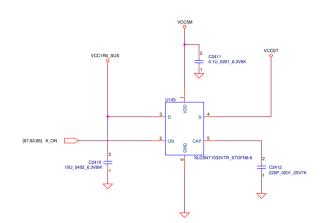
Security Classi	cation Co	mpal Secret Data				Compal Elect	ronics.	Inc.			
Issued Dat	2014/11/04	Deciphered Date	2016/12/3		Title	BLANK					
AND TRADE SECRE DEPARTMENT EXC	INS SHEET OF ENGINEERING DOWNING IS THE PROPRIETIARY PROPRIETY OF COMPAL ELECTRONICS, INC. AND CONTAINS SHEET OF ENGINEERING DOWNING IS THE PROPRIETIARY PROPRIETY OF COMPAL ELECTRONICS, INC. AND THE INFORMATION IT SHEET AND A SHEET OF THE PROPRIETY OF THE PROPRIETY OF THE OWNING TO COMPAL ELECTRONICS, IN ANY RELIGIBLE ON DESCUSSED ON ANY HEID PARTY WINDLY PROPRIETY CONSIGN OF COMPAL ELECTRONICS, IN				Size Custo	Document Number	Sheet			102	Rev 0.5
-	2			ļ	Jaic.	Titulsday, Abgust 13, 2013	Johnson	-/-	-01	102	_

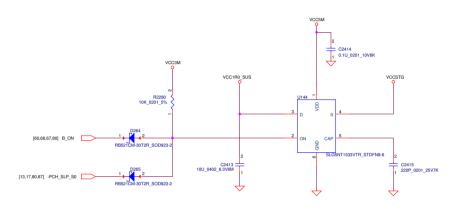


Security Class	sification	Coi	npal Secret Data					Comp	ıl Ele	ectron	ics.	Inc.			
Issued Da	Issued Date 2014/11/04 Deciphered Date 2016/12/31					Title		D.C. (D.C.	11000	DIIIO	ain.				
THIS SHEET OF E	HEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDEN							DC/DC	vuu	<u>.PUIUI</u>	NRO	<u> </u>			
AND TRADE SECI	TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF							Number						-	Rev
	·TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIV ARTIMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT (BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRICH WRITTEN CONSENT OF COMPAL ELECTRONICS, IN					Custo		LA-C58							0.1
						Date:	Thurs	day, August	13, 2015	S	Sheet	80	01	102	
		2							1						

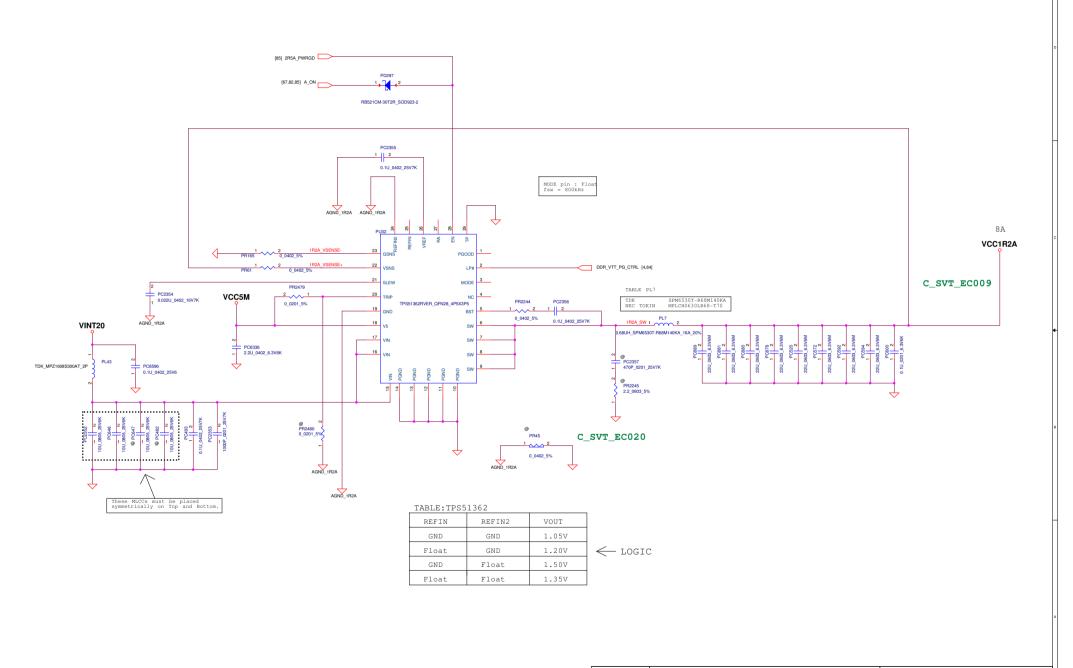


Security Classification	Con	npal Secret Data				Compal Elec	tronics.	Inc.			
Issued Date	2014/11/04	Deciphered Date	2016/12/3	ı	Title	DC/DC VCC41	o cuc				
AND TRADE SECRET INFORM	HIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL ND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD					DC/DC VCC1F current Number	<u>w_sus</u>				Rev
AND HAUE SECHEL INFORMATION. HIS SHEET MAY NOT BE HAVENERED FINDING HE CUSTOOT OF THE COMPETENT DIVISION OF HAD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NETHER 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.					Custom	LA-C581P					0.1
	2				Date:	Thursday, August 13, 2015	Sheet	81	01	102	

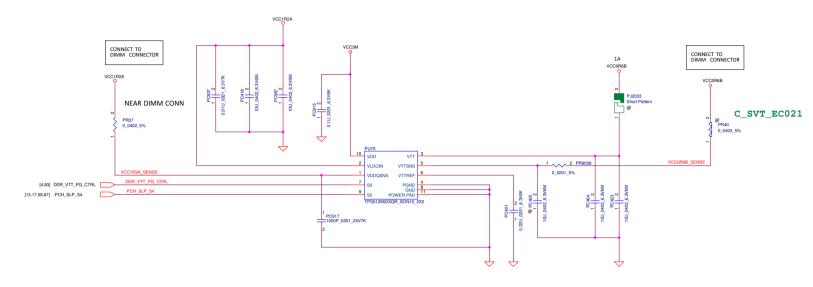




Security C	lassification	Con	npal Secret Data				Ca	mpal Elect	tronics.	Inc.			
Issued	Issued Date 2014/11/04 Deciphered Date 2016/12/31					Title	10	AD CW VCC	CT O VC	ocur.c	i		
THIS CHEET	OF ENGINEEDING	NO AND CONTAINS CON	DESTIN			<u>AD SW VCC.</u>	<u> </u>	<u>.ა 1 </u>					
	SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS (TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVIS					Size	Document N	umber					Rev
DEPARTMENT	rtment except as authorized by compal electronics, inc. Neither this sheet nor the information it (NINS	Cust	bm <i>I.A</i>	-C581P					0.5
MAY BE USED	BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, IN					Date:		. August 13, 2015	Sheet			102	
	-				Date:	Inursday	, August 13, 2015	Sneet	- 02	01	102		
	2							1					



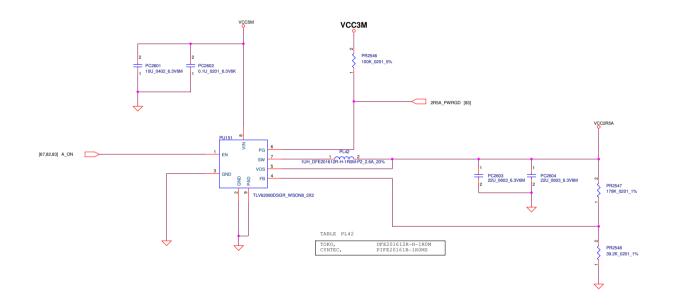
	Security Classification						- (Compo	ıl Elect	ronics.	Inc.			
	Issued Date							2000	TIOO A DI	24				
	THIS SHEET OF ENGINEERING	SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD							VCC1R2	ZA				_
	AND TRADE SECRET INFORM		D FROM THE CUSTODY OF TH	HE COMPETENT DIVISION	OF R&D	Size Custo	Document	.A-C58	D					Rev 0.1
		SED TO ANY THIRD PARTY WITHOUT PRIOR W			-	Date:		A-COO		Sheet	- 02	of	102	ٺ
_		2				Date.	Hillia	ay, August	1	Silect			102	



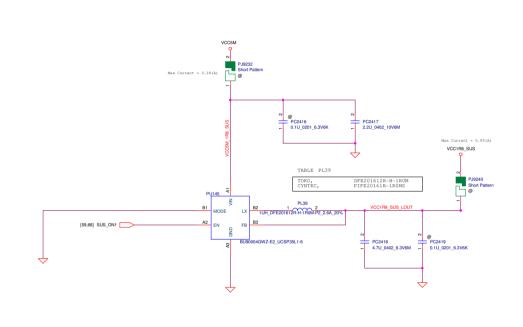
	ABLE	:	TPS51206	
--	------	---	----------	--

S3	S5	VTT	VTTREF
High	High	ON	ON
Low	High	OFF(High-Z)	ON
Low	Low	OFF(Discharge)	OFF(Discharge)

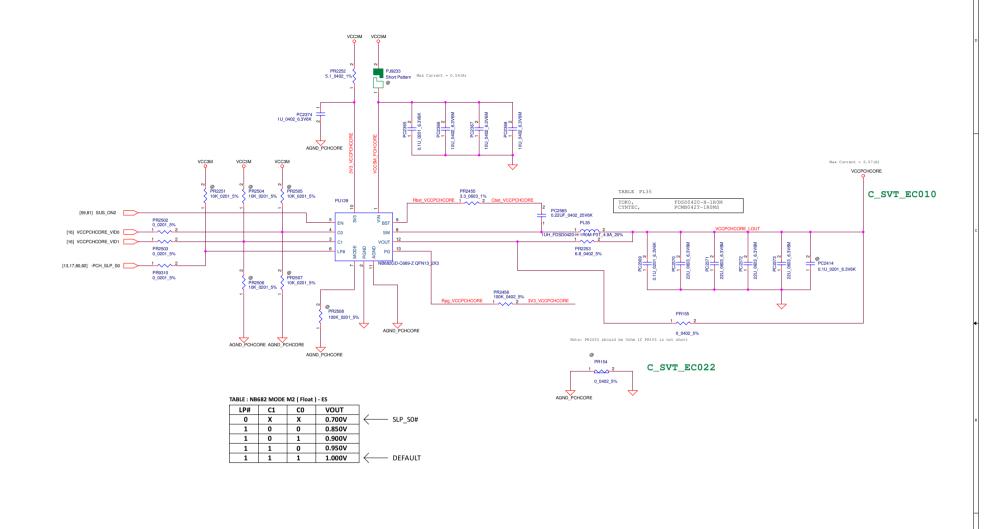
Security Classification	Con	npal Secret Data				Compal Electr	onics.	Inc.	
Issued Date	2014/11/04	Deciphered Date	2016/12/3		Title	DC/DC UCCODC	D/TDCF	1200	
	SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFID BADE SPCRET INFORMATION THIS SHEET MAY NOT BE TRANSFERED FROM THE CLISTORY OF THE COMPETENT DIVISION O				Size	DC/DC VCCOR6. Document Number	<u> 6671 JU</u>	1200j	Rev
DEPARTMENT EXCEPT AS A	SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS TRADE SECRET INFORMATION. THIS SHEET HAN OTH BE TRANSFERD FROM THE CUSTODY OF THE COMPETENT OF THE TRANSFERD FROM THE CUSTODY OF THE COMPATION OF INTIMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PROP WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Custo				0.1
					Date:	Thursday, August 13, 2015	Sheet	84 (102
	2					1			



Security	Classification	Con	npal Secret Data				Compal Electr	onics.	Inc.		
Issue	ed Date	2014/11/04	Deciphered Date	2016/12/3		Title	DC/DC VCC2DF	1 CTI 17	200	· • •	
THIS SHEET	SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL						DC/DC VCC2R5	II I L V C	<u> 208</u>	<u>U</u>	
		ATION, THIS SHEET MAY NOT BE TRANSFERE					Document Number				Rev
		THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W			INS	Custor	" <i>LA-C581P</i>				0.1
			****			Date:	Thursday, August 13, 2015	Sheet	85	of	102
		2					1				



ſ	Security Classification	Con	npal Secret Data					Co	mna	l Electi	ronics.	Inc.			
	Issued Date	2014/11/04	Deciphered Date	2016/12/31		Title		D	/DCI	7CC4 DO	CHC				
	THIS SHEET OF ENGINEERING DIAWNIN IS THE PROPRIETIARY PROPERTY OF COUNTY, ELECTRONICS INC. AN CONTAINS COMPIDENTIAL SHEET OF SHEET OF THE SHEET OF				OF R&D	Custo	m	nent Nu	mber C581						Rev 0.1
						Date:	Tì	nursday,	August 13	3, 2015	Sheet	86	01	102	
		2								1					



Sec	curity Classification	Con	npal Secret Data				Compal Electi	ronics.	Inc.		
	Issued Date	2014/11/04	Deciphered Date	2016/12/3	1	Πtte	D.C. (D.C.) COOD CO				
THIS	SOURCE CHARGE CHARGE OF A WAYNEY IS THE PROPRIETARY PROPERTY OF COMMON. ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL RADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CLISTOMY OF THE COMMETTENT DIVISION OF RAD THREN EXCEPT AS AUTHORIZED BY COMPARE LECTRONICS, INC. MEMBER THIS SHEET IN AT THE INFORMATION IT CONTAINS				DENTIAL		DC/DC VCCPCH	CORE	<u>NB68</u>	<u> 32] </u>	
AND DEP	TRADE SECRET INFORM ARTMENT EXCEPT AS AL	DECUPIER OF THE CONTROL OF THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL DE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD				iize Custo	LA-USOIP				Rev 0.1
_					Di	ate:	Thursday, August 13, 2015	Sheet	87	01	102



Security Classification Compal Secret Data

Issued Date 2014/11/04 Deciphered Date 2016/12/31

This SHET OF BIGNATERING DAMWAS IS THE PROPRETARY PROPRETARY COMPAL ELECTRONORS, NC. AND CONTAINS COMPDENTIAL MORNING STREET OF SHORE AND COMPAN SHOR



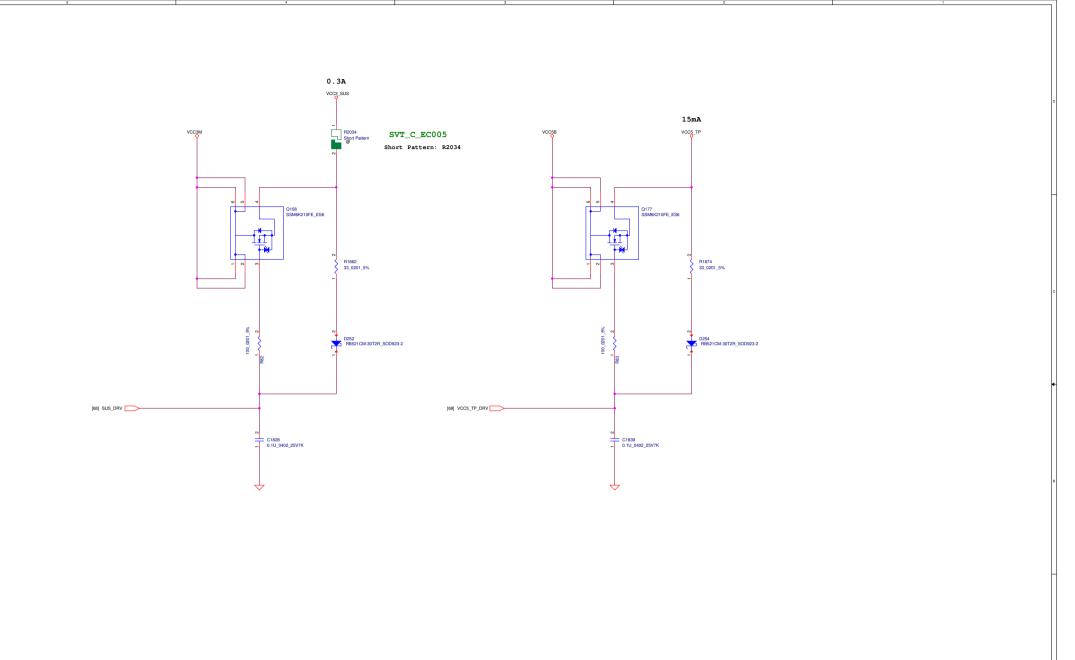
Security Classification	Con	npal Secret Data			Compal Elec	ronics.	Inc.		
Issued Date	2014/11/04	Deciphered Date	2016/12/31	Title	DIANIZ				
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AL	G DRAWING IS THE PROPRIETARY PROPERTY IATION. THIS SHEET MAY NOT BE TRANSFERE THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W	D FROM THE CUSTODY OF THE	HE COMPETENT DIVISION OF EINFORMATION IT CONTAINS	R&D Size	BLANK Document Number LA-C581P				Rev 0.5
	2			Date:	Thursday, August 13, 2015	Sheet	89	01	102



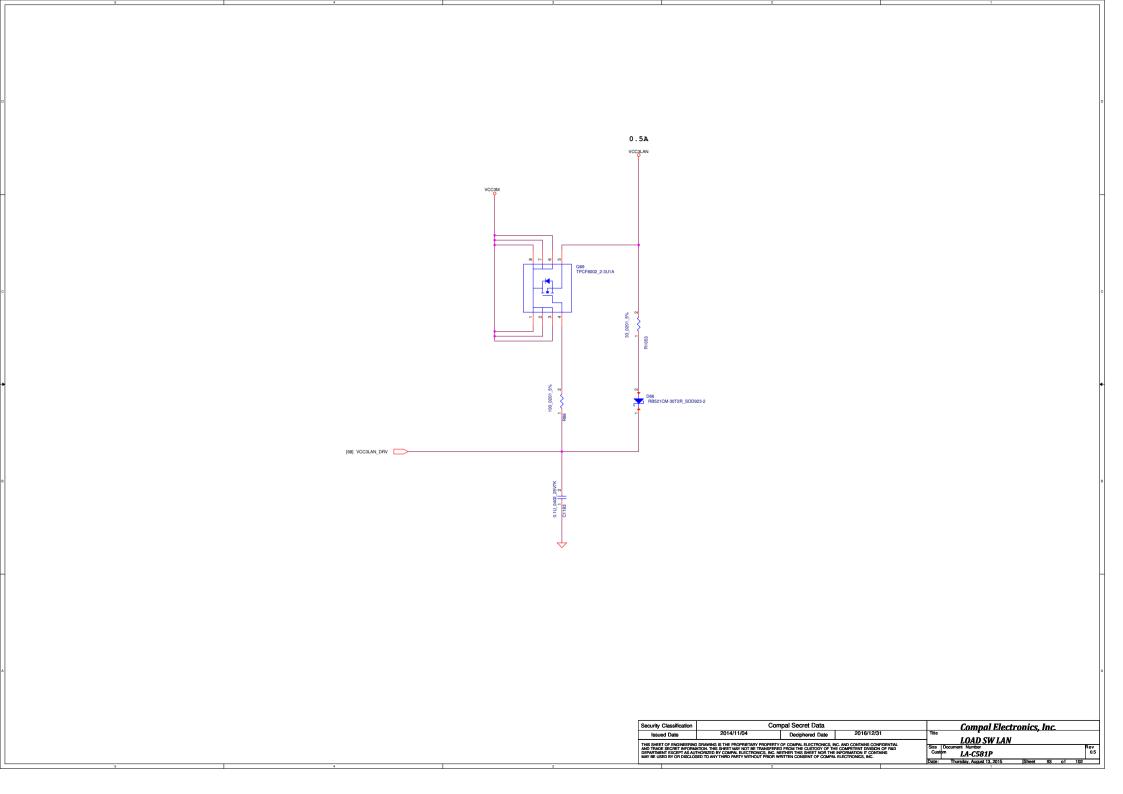
Security Classification	Con	npal Secret Data				Compal Elect	ronics.	Inc.			
Issued Date	2014/11/04	Deciphered Date	2016/12/31		Title	BLANK					
AND TRADE SECRET INFORI DEPARTMENT EXCEPT AS A	G DRAWING IS THE PROPRIETARY PROPERTY NATION. THIS SHEET MAY NOT BE TRANSFERE ITHORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W	D FROM THE CUSTODY OF THE	E COMPETENT DIVISION INFORMATION IT CONTA	OF R&D INS	Size Do Custom	Current Number LA-C581P Thursday, August 13, 2015	Sheet	90		102	Rev 0.5
-	2				Date.	Tildisday, Adgust 13, 2015	Silect	- 50	- 01	102	_



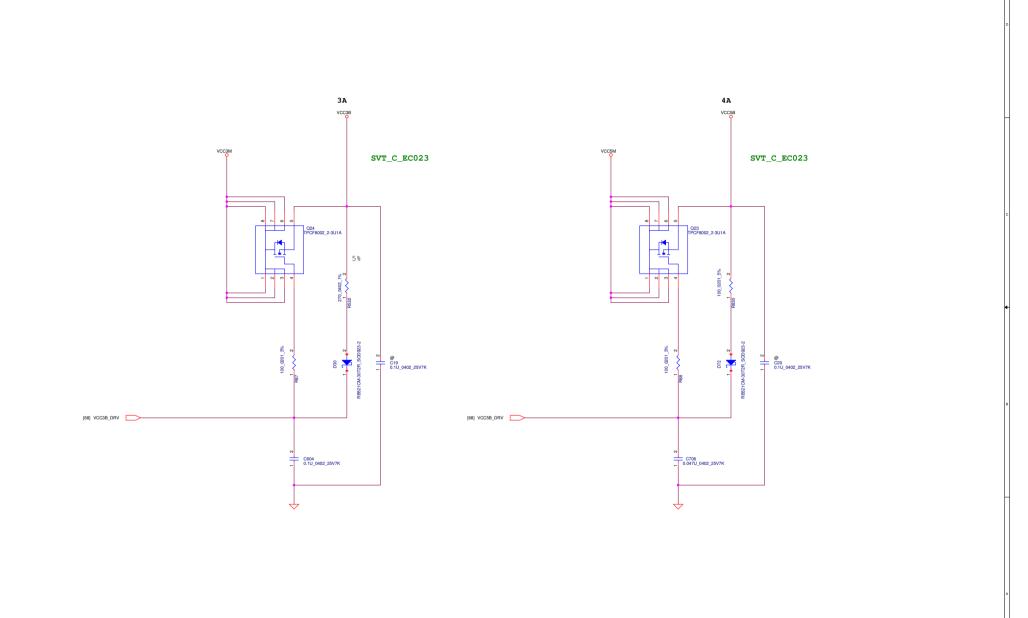
Security Class	sification	Con	pal Secret Data					Compal E	lectro	onics.	Inc.			П
Issued Da	Sued Date 2014/11/04 Deciphered Date 2016/12/31 EET OF PROMISERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPIN. ELECTROPICS, MIC. AND CONTINUE CONFIDENTIAL DATE OF THE PROPRIETARY PROPERTY OF COMPIN. ELECTROPICS, MIC. AND CONTINUE CONFIDENTIAL DATE OF THE PROPRIETARY PROPERTY OF THE PROPRIETARY PROPERTY OF THE PROPERTY OF THE PROPRIETARY PROPRIETARY PROPERTY OF THE PROPRIETARY PROPRIE					Title		DI ANIZ						
AND TRADE SECR	OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL					Size Cust	Documer	BLANK 1 Number LA-C581P						ev 0.5
				Date:	Thurs	sday, August 13, 201	5	Sheet	91	of	102	\neg		
		2						1						=



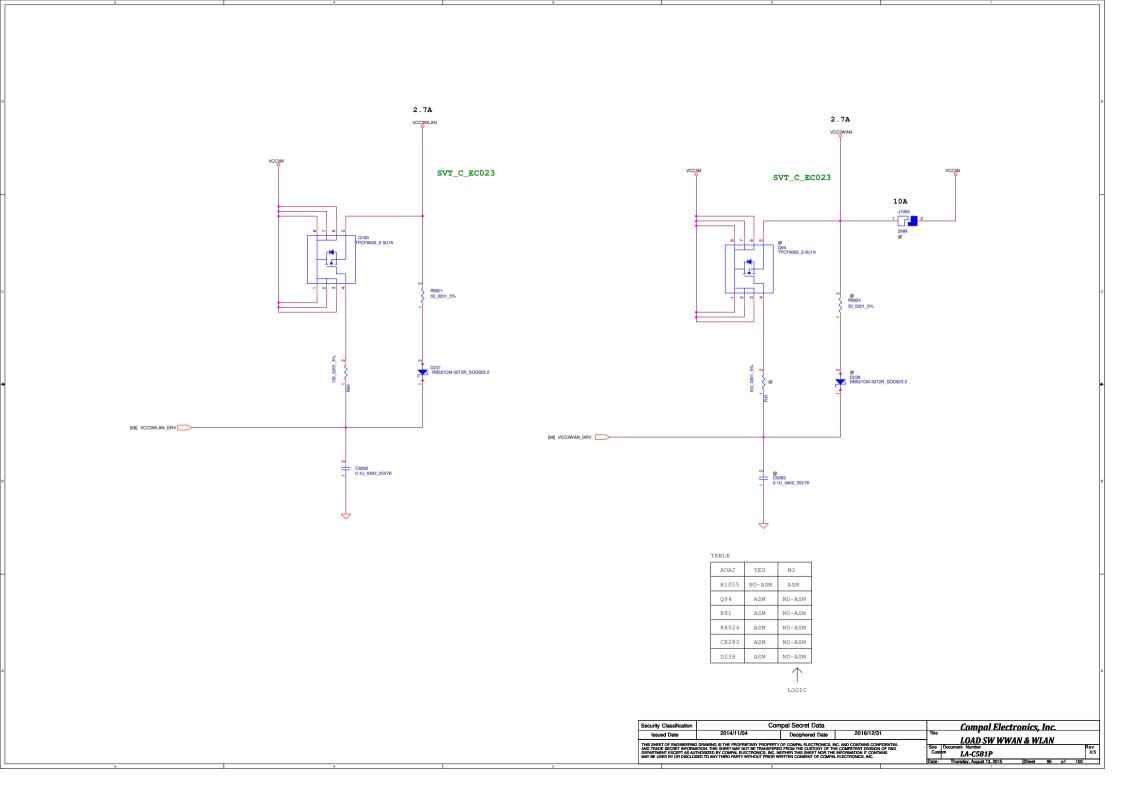
Security Classification	Con	npal Secret Data				Com	nal Elect	ronics.	Inc.			Π
Issued Date	2014/11/04	Deciphered Date	2016/12/3	1	Title	1041	CIUDOII	CHC /TD	ACU	DOI		Ī
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AL	G DRAWING IS THE PROPRIETARY PROPERTY IATION. THIS SHEET MAY NOT BE TRANSFERE THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR W	D FROM THE CUSTODY OF THE	LE COMPÉTENT DIVISION E INFORMATION IT CONTA	OF R&D	Size Custi	Document Number		<u> </u>	ACK	PUI	N R	e1 0
					Date:	Thursday, Aug	ust 13, 2015	Sheet	92	01	102	Ξ
	2						1					







Security Classification	Con	npal Secret Data				Compo	l Electr	onics.	Inc.			
Issued Date	2014/11/04	Deciphered Date	2016/12/3		Title	LOAD	W D					
AND TRADE SECRET INFORI	G DRAWING IS THE PROPRIETARY PROPERTY MATION. THIS SHEET MAY NOT BE TRANSFERE JTHORIZED BY COMPAL ELECTRONICS. INC. N	D FROM THE CUSTODY OF TH	IE COMPETENT DIVISION	OF R&D	Size D	LOAD S						Rev 0.5
	ISED TO ANY THIRD PARTY WITHOUT PRIOR W			-	Date:	LA-C581 Thursday, August		Sheet	95	of	102	0.0
	2						1					

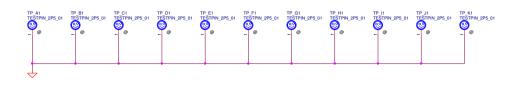




Security Classification	Con	npal Secret Data				Compal Elect	ronics.	Inc.		
Issued Date	2014/11/04	Deciphered Date	2016/12/31	Tit	itle	DI ANIZ				
AND TRADE SECRET INFO	ING DRAWING IS THE PROPRIETARY PROPERTY RMATION. THIS SHEET MAY NOT BE TRANSFERE AUTHORIZED BY COMPAL ELECTRONICS. INC. N	D FROM THE CUSTODY OF TH	HE COMPETENT DIVISION	OF R&D SIZ	ze I	BLANK Document Number				Rev 0.5
	OSED TO ANY THIRD PARTY WITHOUT PRIOR W			Dat		Thursday, August 13, 2015	Sheet	97	of	102
	2					1				

PTH FOR SCREW HOLE

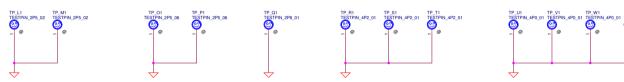
Value	Hola Dia	Pad	Dia	QTY		
V4240	nora bra	TOP	BOTTOM	×		
TESTPIN_2P5_01	2.5	6	6	11		
TESTPIN_2P5_02	2.5	7.4	7.4	2		
TESTPIN_2P5_03	2.5	Square	0	1		
TESTPIN_2P5_06	2.5	5	5	2		
TESTPIN_2P8_01	2.8	0	Square	1		
TESTPIN_4P3_01	4.3	6.5	6.5	3		
TESTPIN_4P0_01	4.0	6.1	6.1	4		













NPTH







FID Board Area

FD3 @ NC, NO CONNECT TO ANY.

Security Classification	Con	npal Secret Data				Compal Elect	ronics.	Inc.			
Issued Date	2014/11/04	Deciphered Date	2016/12/31		Title	DTH FOR CCRI	147 HOLI	ec.			
AND TRADE SECRET INFOR	G DRAWING IS THE PROPRIETARY PROPERTY MATION. THIS SHEET MAY NOT BE TRANSFERE JTHORIZED BY COMPAL ELECTRONICS. INC. N	D FROM THE CUSTODY OF TH	IE COMPETENT DIVISION	OF R&D	Size E	PTH FOR SCRE	W HULE	<u>:S</u>			Rev 0.5
	ISED TO ANY THIRD PARTY WITHOUT PRIOR W			-	Date:	LA-C581P Thursday, August 13, 2015	Sheet	QR.	of	102	
					Dute.	Thursday, Magast 10, 2010	Oilou		<u> </u>		



Security Classification	Con	npal Secret Data				Compal Electronics. Inc.		
Issued Date	2014/11/04	Deciphered Date	2016/12/31		Title	DI ANIZ		
THIS SHEET OF ENGINEEDI	NG DRAWING IS THE DOODDIETARY PRODERTY	OF COMPAL ELECTRONICS II	NO AND CONTAINS COME	IDENTIAL		BLANK		
						Document Number		Rev
	ed Date 2014/11/04 Deciphered Date 2016/12/31 ET OF FINANCESHING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTTONICS, N.C. AND CONTAINS CONFIDENTIAL ET OF SEATH AS AUTHORIZED BY COMPAL ELECTTONICS, N.C. AND THE SHEET NOT THE WROMANDAL IT CONTAINS ENT EXCEPT AS AUTHORIZED BY COMPAL ELECTTONICS, N.C. METHER THIS SHEET NOT THE WROMANDAL IT CONTAINS ENT EXCEPT AS AUTHORIZED BY COMPAL ELECTTONICS, N.C. METHER THIS SHEET NOT THE WROMANDAL IT CONTAINS ENT EXCEPT AS AUTHORIZED BY COMPALE SHEET NOT AND THE WROMANDAL IT CONTAINS ENT BY ON DESIGNED TO ANY THROW DRAWN WITHOUT PROPRO WITHOUT DESIGNED WRITHOUT CONTAINS. ENT OF ORDER TO COMPANY ENTER THE SHEET NOT THE WROMANDAL IT CONTAINS THE SHEET NOT THE SHEET NOT THE SHEET NOT THE WROMANDAL IT CONTAINS THE SHEET NOT THE SHEET NOT THE SHEET NOT THE WROMANDAL IT CONTAINS THE SHEET NOT THE SHEET NOT THE WROMANDAL IT CONTAINS T				Cust	^m LA-C581P		0.5
					Date:	Thursday, August 13, 2015 Sheet 99 of	102	
	2					1		



Security Classification	Con	npal Secret Data				Compal Electronics. Inc.		
Issued Date	2014/11/04	Deciphered Date	2016/12/31		Title	DI ANIZ		
THIS SHEET OF ENGINEEDI	NG DRAWING IS THE DOODDIETARY PRODERTY	OF COMPAL ELECTRONICS II	NO AND CONTAINS COME	IDENTIAL		BLANK		
						Document Number		Rev
	ed Date 2014/11/04 Deciphered Date 2016/12/31 TO FINISHEEFING DRAWING IS THE PROPRIETIARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS COMPIDENTIAL TO FINISHEEFING DRAWING IS THE PROPRIETIARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS COMPIDENTIAL OF THE PROPERTY AS ANTHORIZED BY COMPAL ELECTRONICS, INC. MICHIES HIS SHEET NOT THE INFORMATION IT CONTAINS ED BY OR DISCLOSED TO ANY THEO PRINT WITHOUT PROPERTY MICHIES CONSISTED CONSMELL ELECTRONICS, INC.				Cust	^m LA-C581P		0.5
			-		Date:	Thursday, August 13, 2015 Sheet 100 of	102	
	2					1		



Security Classification	Corr	pal Secret Data				Compal Elect	ronics.	Inc.			_
Issued Date	2014/11/04	Deciphered Date	2016/12/31		Title	BLANK					
AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AU	S DRAWING IS THE PROPRIETARY PROPERTY ATION. THIS SHEET MAY NOT BE TRANSFEREI THORIZED BY COMPAL ELECTRONICS, INC. NI SED TO ANY THIRD PARTY WITHOUT PRIOR W	FROM THE CUSTODY OF THE	E COMPETENT DIVISION OF INFORMATION IT CONTAIN	R&D	Size I Custor	Document Number The LA-C581P					ev 0.5
					Date:	Thursday, August 13, 2015	Sheet	101	of	102	