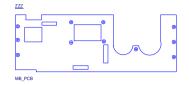
MODEL NAME: CAZ60
PCB NO: LA-E671P
BOM P/N: 43xxxxx



Dell/Compal Confidential

Schematic Document

Italia

@: Nopop Component

@ CONN@: Reserve Connector Component

2017-09-15

@ EMC@: Reserve EMC Component

Rev: 1.0 (A00)

CONN@: Connector Component

XPS@:for Italia L@:for Italia-L

RF@: RF Solution Component XDP@: XDP Debug Component

EMC@: EMC Component U22@: U22 CPU Support U23@: U23 CPU Support U42@: U42 CPU Support

U22U23@: U22 and U23 CPU Support

DEBUG : for Other Debug

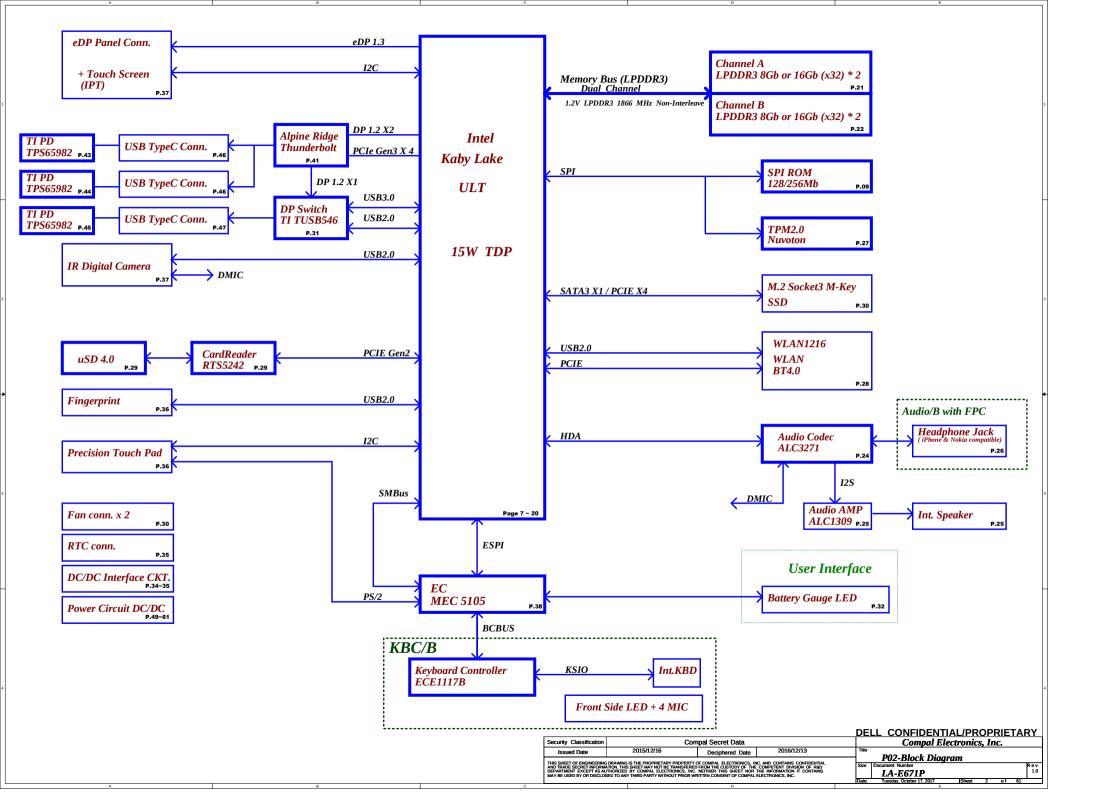
650@:TPM 750@:TPM

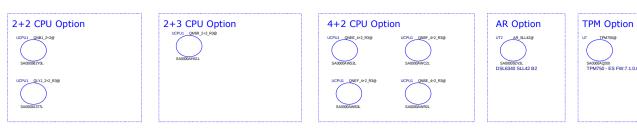
DCI@: for **DCI Debug**

Security Classification Compal Secret Data Compal Electronics, Inc.

Issued Date 2016/12/16 Deciphered Date 2016/12/13

THIS SHEET OF ENGINEERING DRAWNG IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL OFFENTANTIANT ELECTRONICS, INC. HISTORY AND THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL OFFENTANTIANT ELECTRONICS, INC. HISTORY AND THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL OFFENTANTIANT ELECTRONICS, INC. HISTORY AND THE PROPRIETARY PROPERTY OF THE PROPRIETARY PROPRIETARY PROPERTY OF THE PROPRIETARY PROPRIETA





RAM Option					DRAM Cor	nfig Option			
Micron 4G/1866	UD11 M4G 1866@ SA00009XU1L	UD42 M4G 1886@ SA00009XUIL	UD43 M4G 1866@ SA00009XUIL	UD44 M4G 1866@ SA0009XU1L	MEM_CONFIGO RH51 M45_1866@ SD028100280 10K_0402_596	MEM_CONFIG1 RH54 M4G_1888@ SD028100280 10K_0402_5%	MEM_CONFIG2 RH56 M4G_1806@ SD028100280 10K_0402_5%	MEM_CONFIG3 RH57 M4G_1886@ SD028100280 10K_0402_5%	MEM_CONFIG4 RH60 M4G 1888@ SD028100280 10K_0402_5%
Micron 8G/1866	UD41 M8G 1866@ SA00009U71L	UD42 M8G 1886@ SA00009U71L	UD43 M8G 1886@ SA00009U71L	UD44 M8G 1886@ SA00009U71L	RH52 M8C_1866@ SD028100280 10K_0402_5%	RH53 M9G 1886@ SD028100280 10K_0402_5%	RH56 M8G_1866@ SD028100280 10K_0402_5%	RH57 M8G 1866@ SD028100280 10K_0402_5%	RH60 M8G_1866@ SD028100280 10K_0402_5%
Mircon 16G/1866	UD41 M18G_1886@	UD42 M16G 1886@ SA0009ZNIL	UD43 M16G 1866@ SA00009ZNIL	UD44 M16G 1886@ SA000092N1L	RH51 M10G_1866(p) SD028100280 10K_0402_5%-D	RH53 M16G_1866@ SD028100280 10K_0402_5%~D	RH56 M16G_1986@ SD029100280 10K_0402_5%~D	RH67 M16G_1866@ SD028100280 10K_0402_5%~D	RH60 M16G_1866@ SD028100280 10K_0402_5%~D
Hynix 4G/1866	UD41 H4G 1866@ SA00006G64L H9CCNNN8GTALAR-NUD	SA00006G64L H9CCNNN8GTALAR-NUD	SA00006G64L H9CCNNN8GTALAR-NUD	UD44 HiG 1886@ SA00006G64L H9CCNNNBGTALAR-NUD	RH52 H4G 1886@ SD028100280 10K_0402_5%~D	RH54 H4G_1888@ SD028100280 10K_0402_5%~D	SD028100280 10K_0402_5%~D	SD028100280 10K_0402_5%~D	RH60 H4G 1866@ SD028100280 10K_0402_5%~D
Hynix 8G/1866 5A00008TJ4L	UD41 H8G 1886@ SA00008FJ4L H9CCNNNBJTALAR-NUD	UD42 H8G 1886@ SA00008FJ4L H9CCNNNBJTALAR-NUD	UD43 H8G 1886@ SA00008F34L H9CCNNNBJTALAR-NUD	UD44 H8G 1966@ SA0000FJ4L H9CCNNNBJTALAR-NUD	RH51 H8G 1886@ SD028100280 10K_0402_5%~D	RH54 H8G_1866@ SD029100280 10K_0402_5%~D	SD028100280 10K_0402_5%~D	RH57 H8G_1886@ SD0281800280 10K_0402_5%~D	SD023100280 10K_0402_5%~D
Hynix 16G/1866	UD41 H16G_1986@ SA0000AEN0L H9CCNNNCLGALAR-NUD	UD42 H16G 1866@ SA0000AENOL H9CCNNNCLGALAR-NUD	UD43 H16G 1886@ SA0000AENUL H9CCNNNCLGALAR-NUD	UD44 HE6G 1886@ SA0000ENUL H9CCNNNCLGALAR-NUD	RHS2 H10G 1886@ SD038100:e0 10K_0402_5%~D	SD028100280 10K_0402_5%~D	RH95 H16G_1866@ SD028100280 10K_0402_5%~D	RH57 H16G_1886@ SD028100280 10K_0402_5%~D	RH60 H16G_1866@ SD028100280 10K_0402_5%~D

				DE	LL CONFIDENTIAL/PRO	PRIETARY		
Security Classification		npal Secret Data		Compal Electronics,	Inc.			
Issued Date	2015/12/16	Deciphered Date	2016/12/13	Title PAG P 16 O .:				
	IG DRAWING IS THE PROPRIETARY PROPI	Size	P03-BoM Option Document Number	Rev				
DEPARTMENT EXCEPT AS A	UTHORIZED BY COMPAL ELECTRONICS, IN SED TO ANY THIRD PARTY WITHOUT PRIOR V		LA-E671P	1.0				
				Date:	Tuesday, October 17, 2017 Sheet 3	3 of 61		

Board ID Table for AD channel

RE194	CE75	REV
	4700p	X00
130K	4700p	X01
62K	4700p	X02
33K	4700p	X03
8.2K	4700p	A00
4.3K	4700p	
	4700p	
1K	4700p	

CPU	4+2	2+3	3+2
Italia			
Italia CAZ60			

BOARD_ID rise trie i sneas ur ed fr o m 5 %~68 %.

MBUS Control Table

	SOURCE	BATTERY Charger	PD1	PD2	PWR_MON	5105	XDP	Audio AMP	eDP	Touch Pac	Touch S	IR_THER_S
SMB88_SLK	MEC5105			٧								
SMB01_CLK SMB01_DATA	MEC5105											V
SMB82_CLK SMB82_DATA	MEC5105									V		
SMB04_CLK SMB04_DATA	MEC5105		>									
SMB05_CLK SMB05_DATA	MEC5105							٧				
SMB87_CLK DATA	MEC5105				V							
SMB10 CLK SMB10_DATA	MEC5105	\										
BEH_SME164K	PCH					٧						
SMBCLK SMBDATA	PCH						V					
12C0_CLK DATA	PCH										٧	
1381-BAKA	PCH									V		
1282_BATA	PCH								V			

	USB PORT#	DESTINATION				
	1	PD PORT3				
PCH USB 2.0	2	NC				
Port Mapping	3	NC				
I riapping	4	NC				
	5	IR Camera & Cam				
	6	NC				
	7	NGFF WLAN BT				
	8	NC				
	9	NC				
	10	Fingerprint				
PCH	1	DP MX (PS8743B)				
USB 3.0	2					
Port Mapping						

PCH	DDI PORT#	DESTINATION			
DDI Port Mapping	1	Alpine Ridge			
	2	Alpine Ridge			

	DIFFERENTIAL CLK#	DESTINATION	PCI EXPRESS PORT#	DESTINATION	
	CLKOUT_PCIE0	Alpine Ridge	Lane 1	Card Reader	
CLK	CLKOUT_PCIE1	NGFF WLAN	Lane 2	NC	
	CLKOUT_PCIE2	NC	Lane 3	NGFF WLAN	
	CLKOUT_PCIE3	M.2 SSD	Lane 4	NC	
	CLKOUT_PCIE4	NC	Lane 5	Alpine Ridge	
	CLKOUT_PCIE5	Card Reader	Lane 6	Alpine Ridge	
	FLEX CLK#	DESTINATION	Lane 7	Alpine Ridge	
	CLKOUT_LPC_0	ESPI 5105	Lane 8	Alpine Ridge	
	CLKOUT_LPC_1	NC	Lane 9	M.2 SSD	
		_	Lane 10	M.2 SSD	

Lane 11

Lane 12 / SATA 2

M.2 SSD

M.2 SSD

SATA PORT#	DESTINATION
SATA-0	NC
SATA-1A	NC
SATA-1B	NC
SATA-2	M.2 SSD

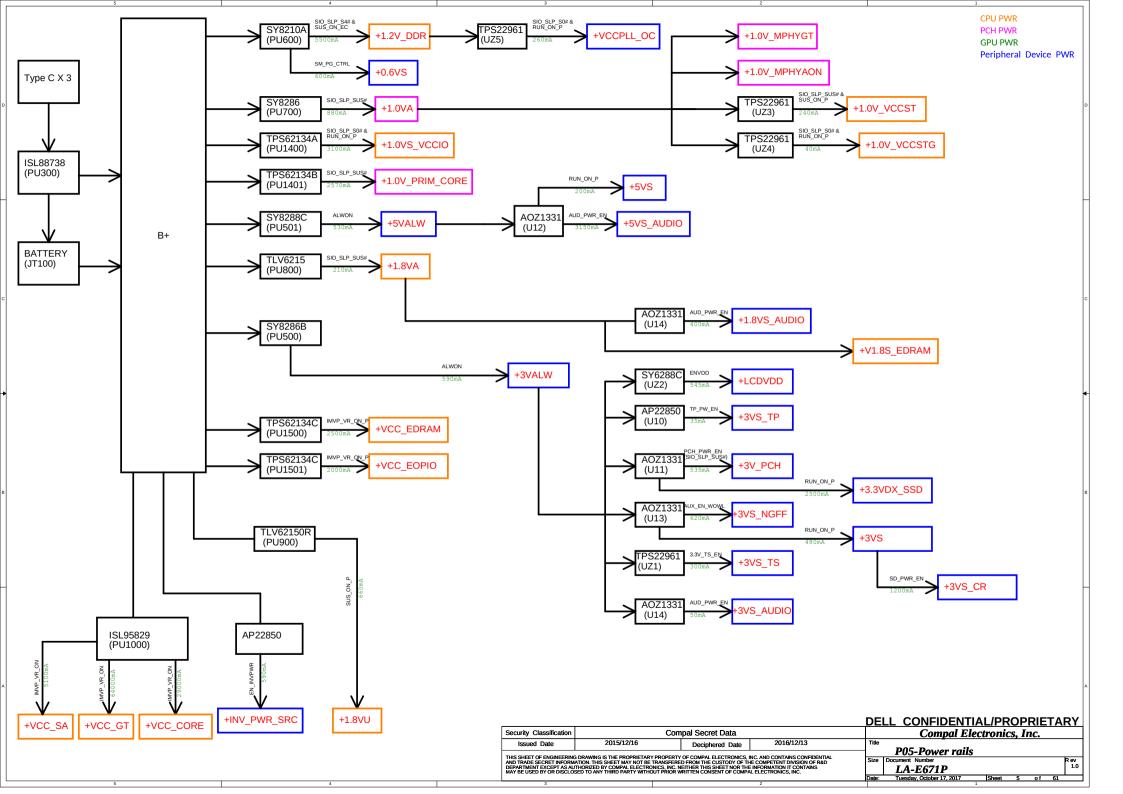
Symbol Note:

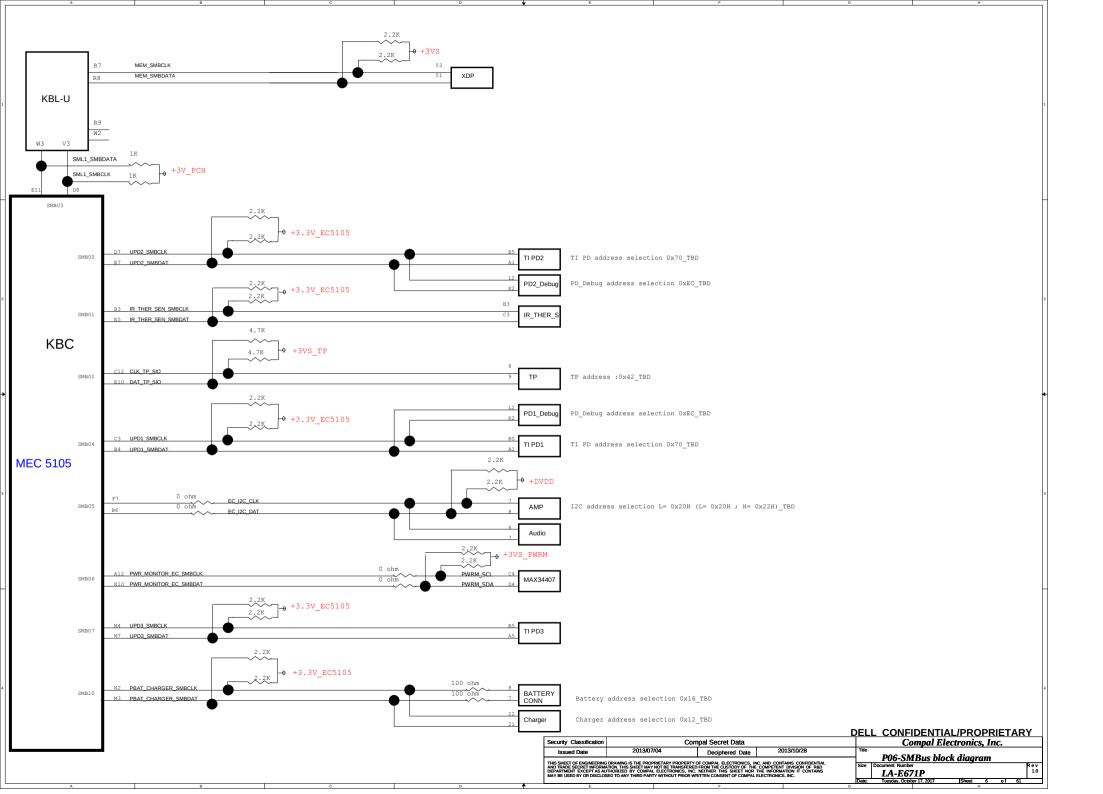
: means Digital Ground

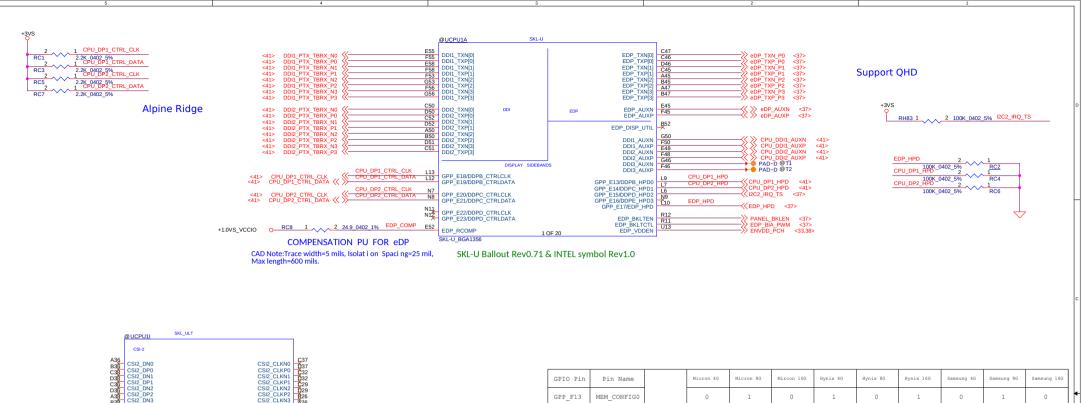
			DELL CONFIDENTIAL/PROPRIETARY
Security Classification	Compal Secret Data	Compal Electronics, Inc.	
Issued Date	2015/12/16 Decinhered Date	2016/12/13	Title

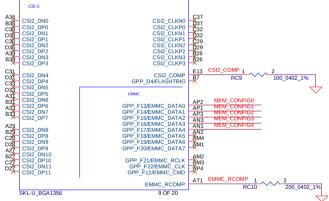
ISSUED Date 2015/12/16 Deciphered Date 2016/12/13

THIS SHEET OF ENGINEERING DANHING IS THE PROCRIETARY PROPERTY OF COMPA. ELECTRONICS, INC. AND CONTAINS CONFEDENTIAL AND TRADE SECRET HOROMATION. HIS SHEET MAY WITH BE TRADESFERDED FROM THE CUSTORY OF THE COMPETENT INVIOLID OF RAD. DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NETHIER THIS SHEET IN IT THE INFORMATION IT CONTAINS MAY BE USED BY OR ISSUED SET ONLY THEIR DATE OF THIS SHEET IN IT THE INFORMATION IT CONTAINS MAY BE USED BY OR ISSUED SET ONLY THEIR DATE OF THE OWNER OF COMPAL ELECTRONICS, INC.









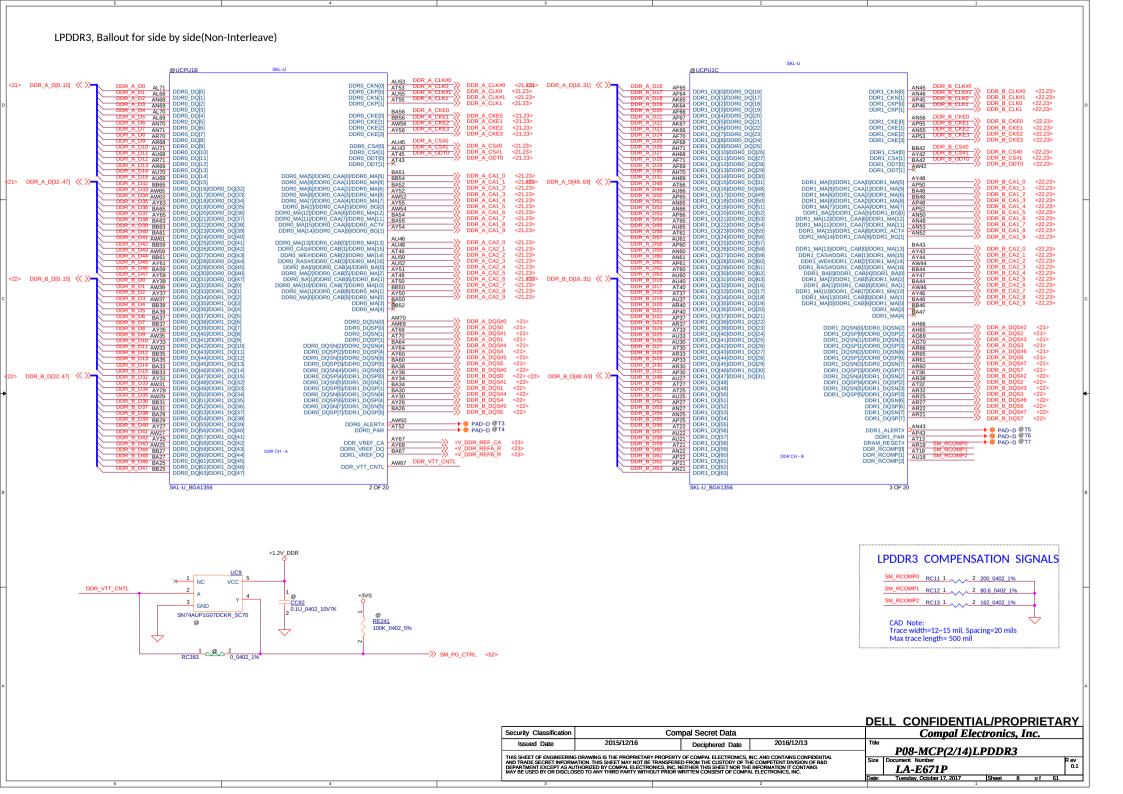
DDR Memory Conf i guroatType St r ap pin

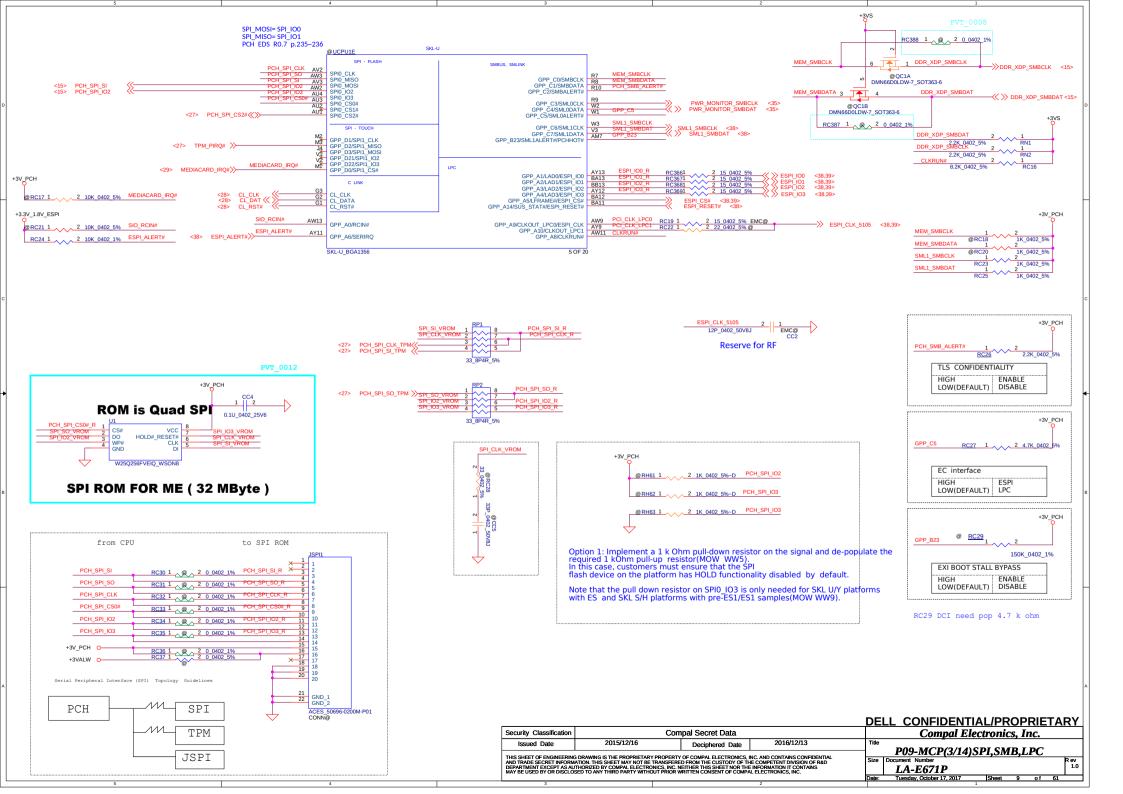
@RH51	2 1 10K 0402 5%	MEM_CONFIG0	@ RH52	2 1 10K 0402 5%
@RH53	2 1 10K 0402 5%	MEM_CONFIG1	@ RH54	2 1 10K 0402 5%
@RH55	2 1 10K 0402 5%	MEM_CONFIG2	@ RH56	2 1 10K 0402 5%
@RH57	2 1 10K 0402 5%	MEM_CONFIG3	@ RH58	2 1 10K 0402 5%
@RH59	2 1 10K 0402 5%	MEM_CONFIG4	@ RH60	2 1 10K 0402 5%

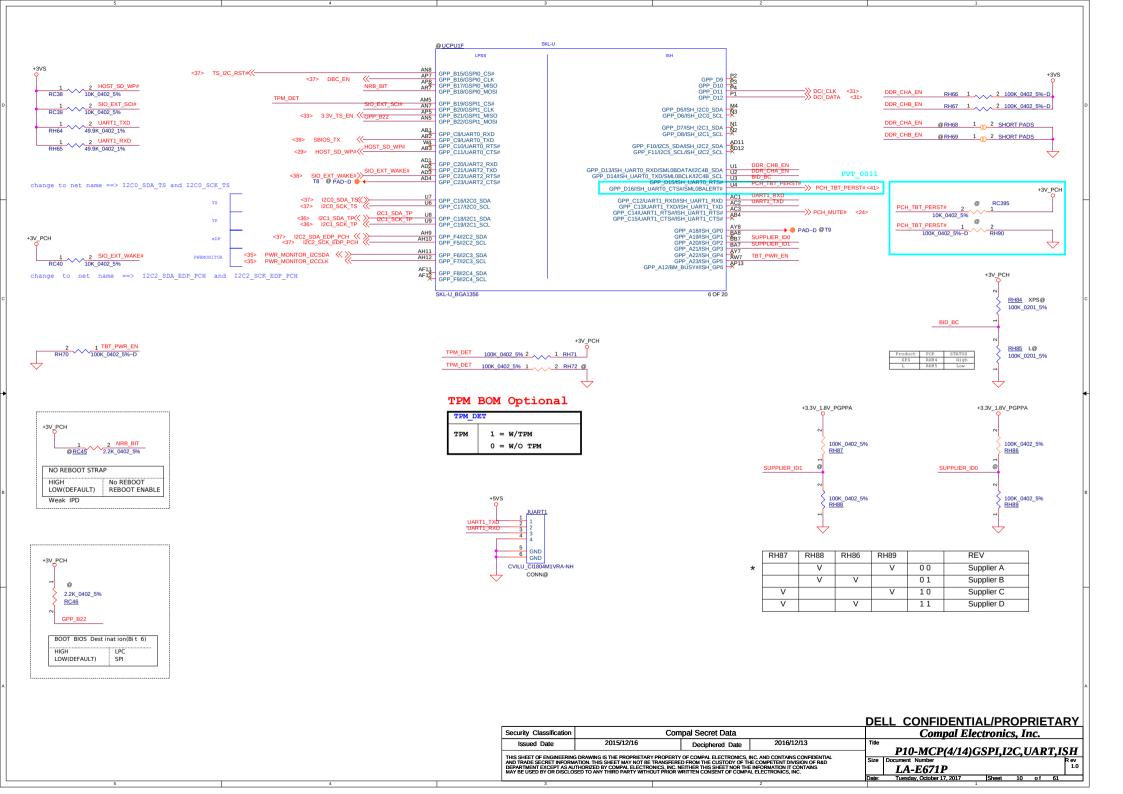
GPIO Pin	Pin Name			Micron 4G	Micron 8G	Mircon 16G	Hynix 4G	Hynix 8G	Hynix 16G	Samsung 4G	Samsung 8G	Samsung 16G	.			
GPP_F13	MEM_CONFIG0			0	1	0	1	0	1	0	1	0	ŀ			
GPP_F14	MEM_CONFIG1) Mbps	Mbps			0	0	1	1	0	0	1	1	0	
GPP_F15	MEM_CONFIG2	1600			0	0	0	0	1	1	1	1	0	i		
GPP_F16	MEM_CONFIG3			0	0	0	0	0	0	0	0	1	i			
GPP_F17	MEM_CONFIG4			0	0	0	0	0	0	0	0	0				
GPIO Pin	Pin Name			Micron 4G	Micron 8G	Mircon 16G	Hynix 4G	Hynix 8G	Hynix 16G	Samsung 4G	Samsung 8G	Samsung 16G				
GPP_F13	MEM_CONFIG0			1	0	1	0	1	0	1	0	1				
GPP_F14	MEM_CONFIG1				0	1	1	0	0	1	1	0	0			
GPP_F15	MEM_CONFIG2	1866	Mbps	0	0	0	1	1	1	1	0	0				
GPP_F16	MEM_CONFIG3			1	1	1	1	1	1	1	0	0				
GPP_F17	MEM_CONFIG4			0	0	0	0	0	0	0	1	1				
GPIO Pin	Pin Name			Micron 4G	Micron 8G	Mircon 16G	Hynix 4G	Hynix 8G	Hynix 16G	Samsung 4G	Samsung 8G	Samsung 16G				
GPP_F13	MEM_CONFIG0			0	1	0	1	0	1	0	1	0				
GPP_F14	MEM_CONFIG1			1	1	0	0	1	1	0	0	1				
GPP_F15	MEM_CONFIG2	2133	Mbps	0	0	1	1	1	1	0	0	0				
GPP_F16	MEM_CONFIG3			0	0	0	0	0	0	1	1	1				
GPP_F17	MEM_CONFIG4			1	1	1	1	1	1	1	1	1				
-	•			-		•	•	-	-		-					

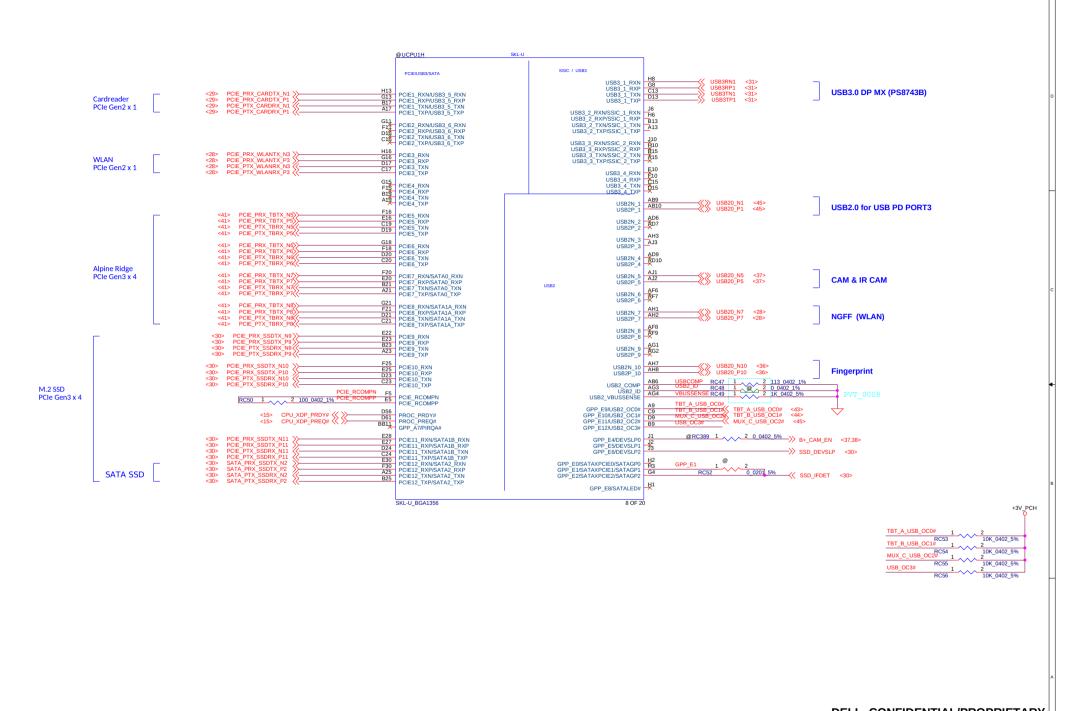
				DΕ	LL CONFIDENTI	AL/PR	<u>UP</u>	<u> KIE</u>	<u>I Ar</u>	T
Security Classification	Compal Secret Data				Compal Electronics, Inc.					
Issued Date	2015/12/16	Deciphered Date	2016/12/13	Title	D07 MCD(4/4/)	DDIEL	\D.	oc to	7784	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD				Size	P07-MCP(1/14)	DDI,EI)P,(JS12		I IVI (R ev 1.0
	THORIZED BY COMPAL ELECTRONICS, INC. N SED TO ANY THIRD PARTY WITHOUT PRIOR V			Date:	LA-E671P Tuesday, October 17, 2017	Sheet	7	o f	61	1.0

DELL CONFIDENTIAL/DDODDIETADY





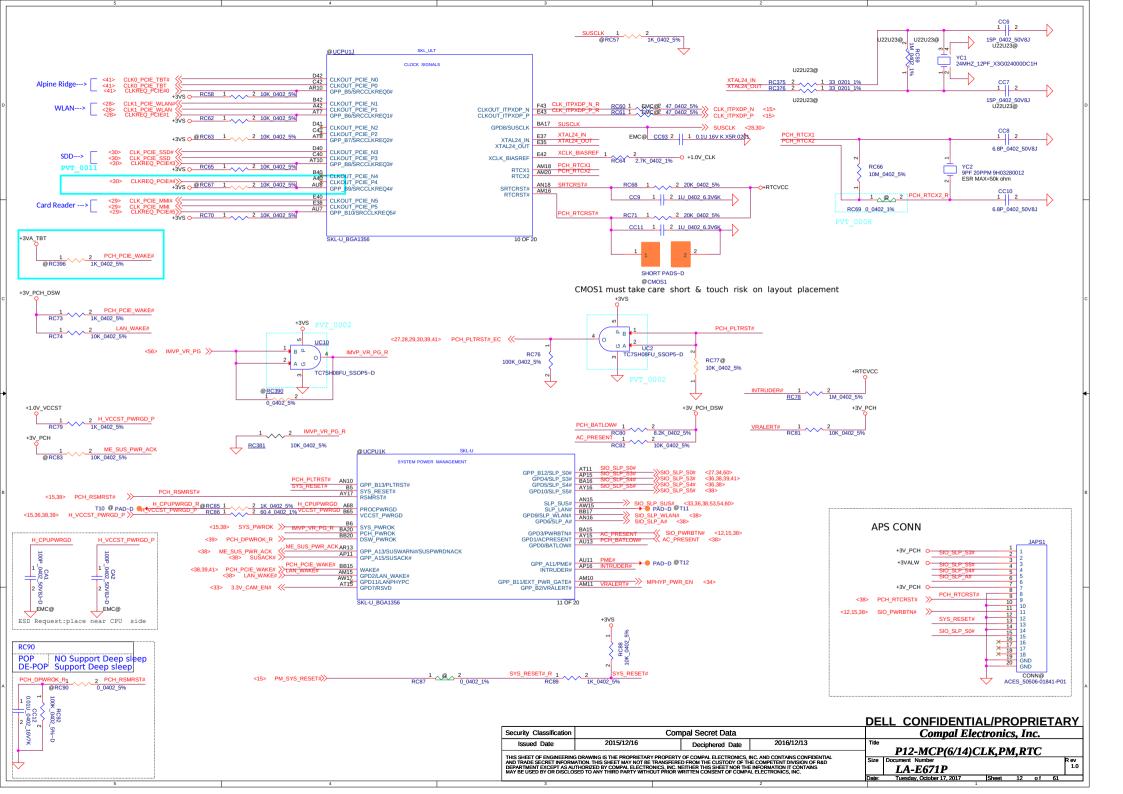


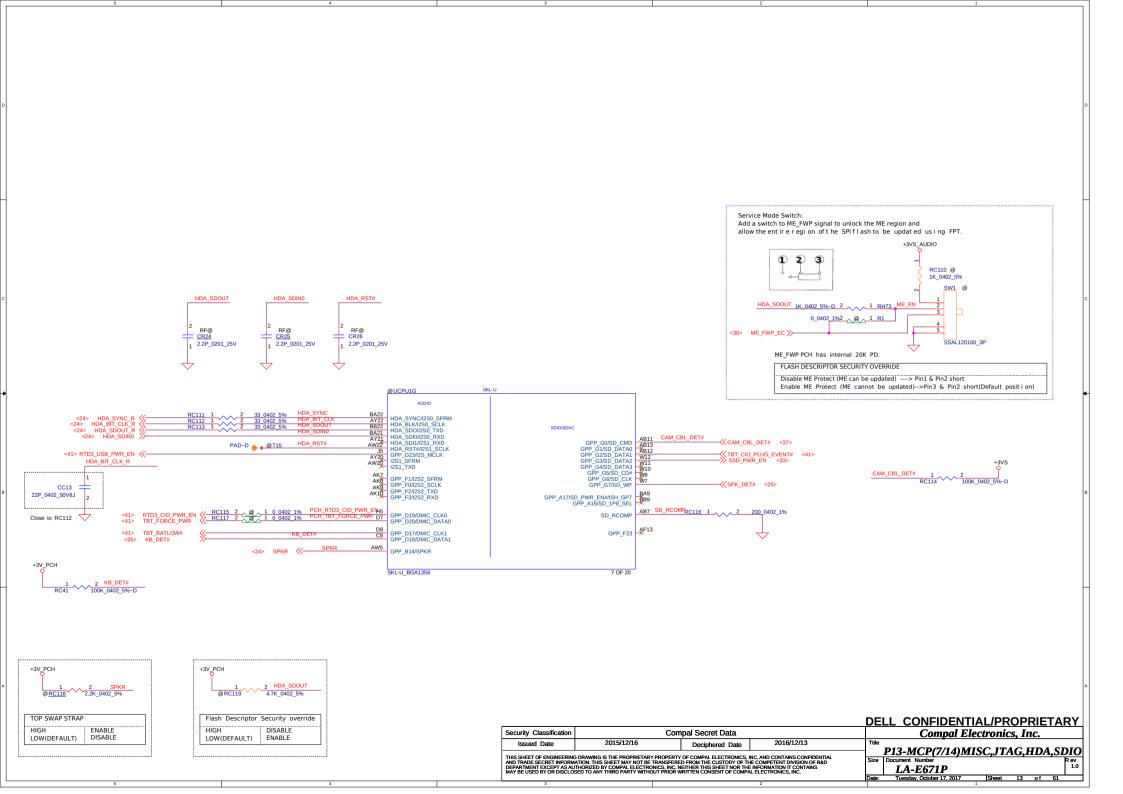


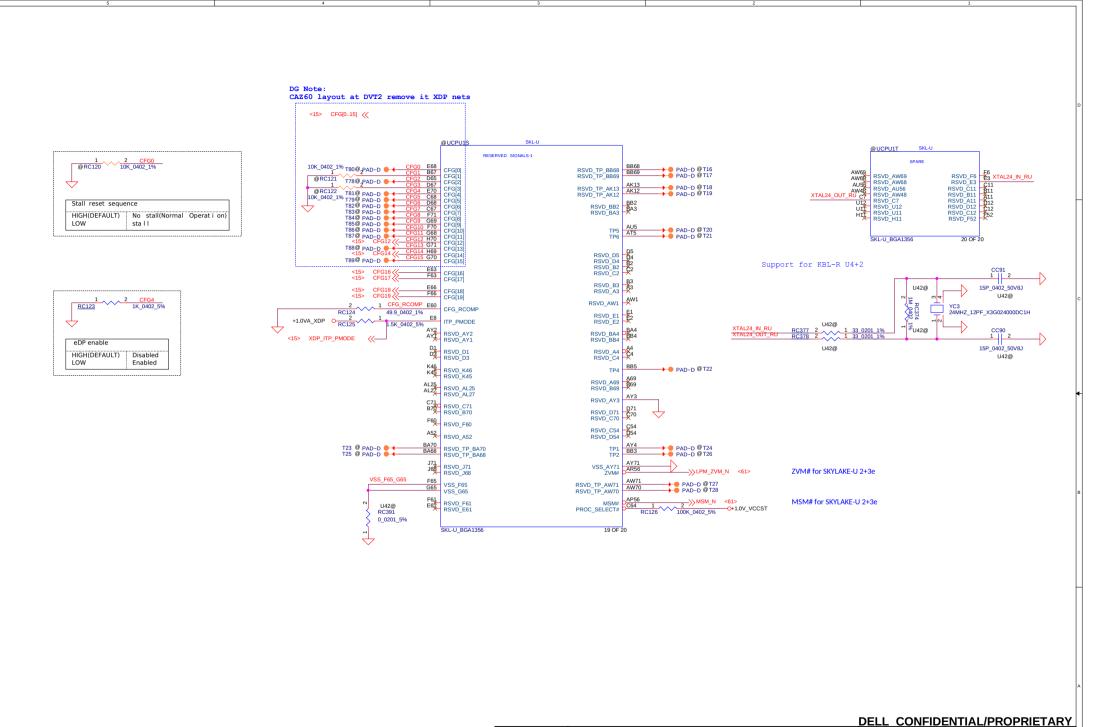
Security Classification | Compal Secret Data | Compal Electronics, Inc. |

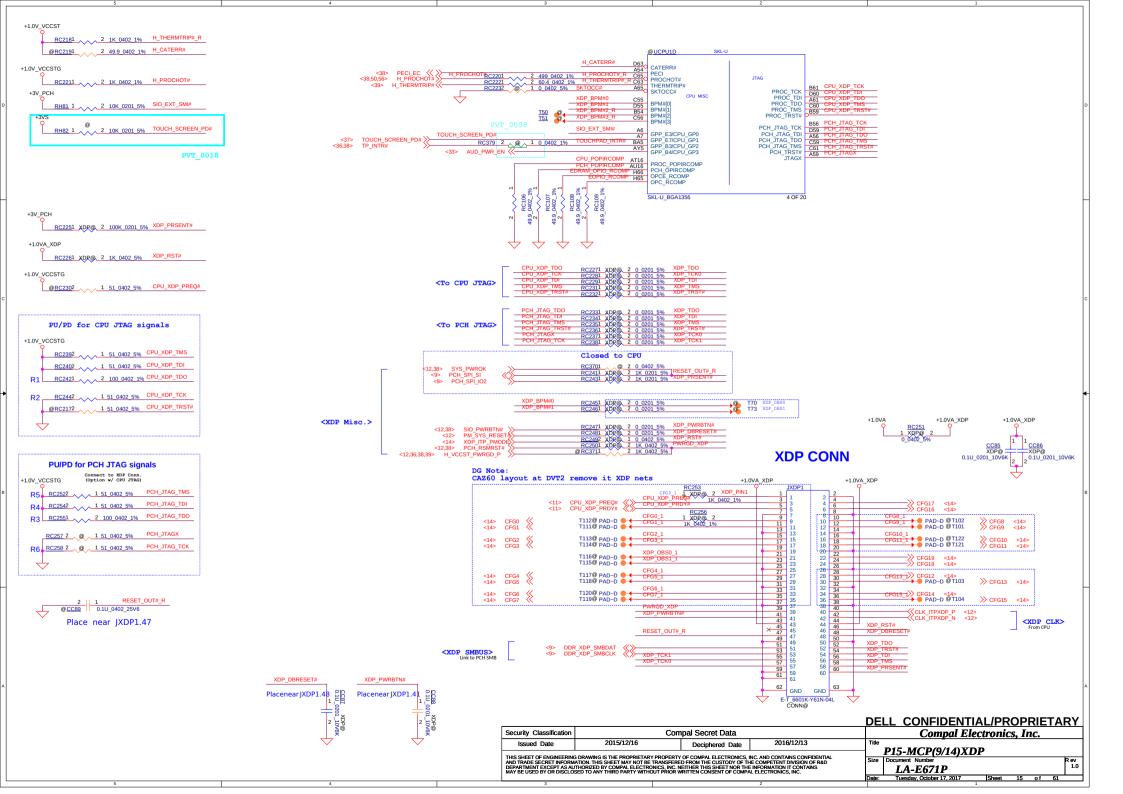
Issued Date | 2015/12/16 | Deciphered Date | 2016/12/13 |

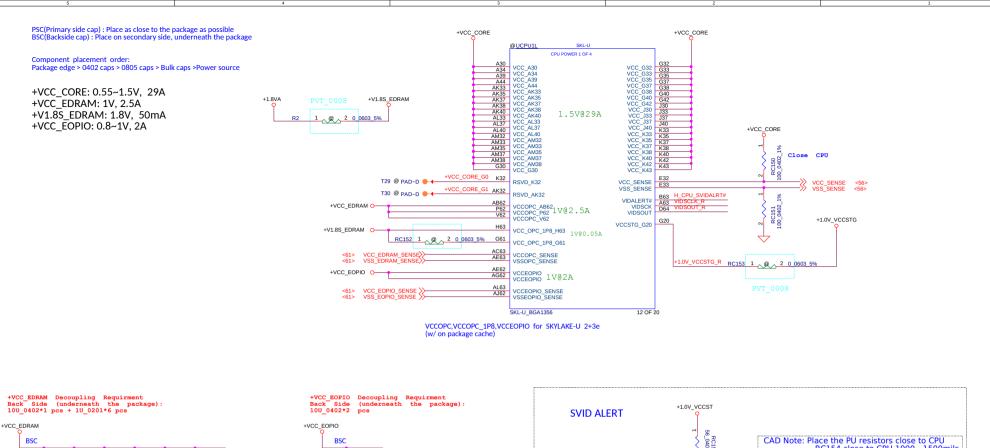
This Sheet of Engineering Drawing is the Proprietary Property of Compal Electronics, Inc. and Contrains Confidential, AND TRACE OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTRAINS CONFIDENTIAL, AND TRACE OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTRAINS CONFIDENTIAL, AND TRACE OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTRAINS CONFIDENTIAL, AND TRACE OF THE CONFIDENTIAL PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTRAINS CONFIDENTIAL PROPERTY OF COMPACT OF COMPACT OF CONTRAINS CONFIDENTIAL PROPERTY OF CONTRAINS CONT

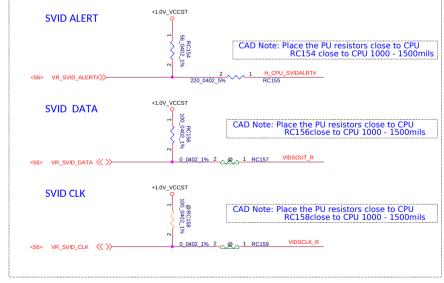


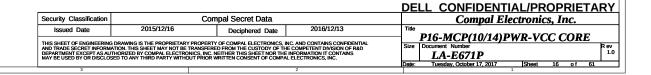


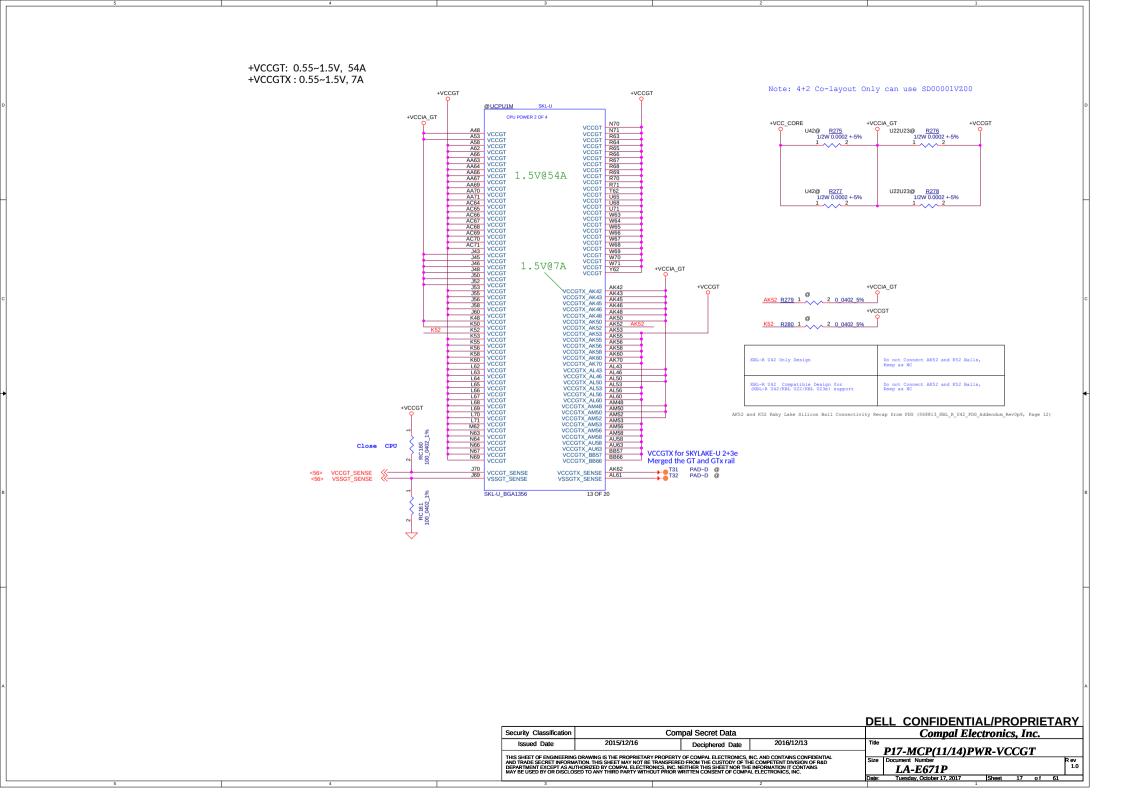


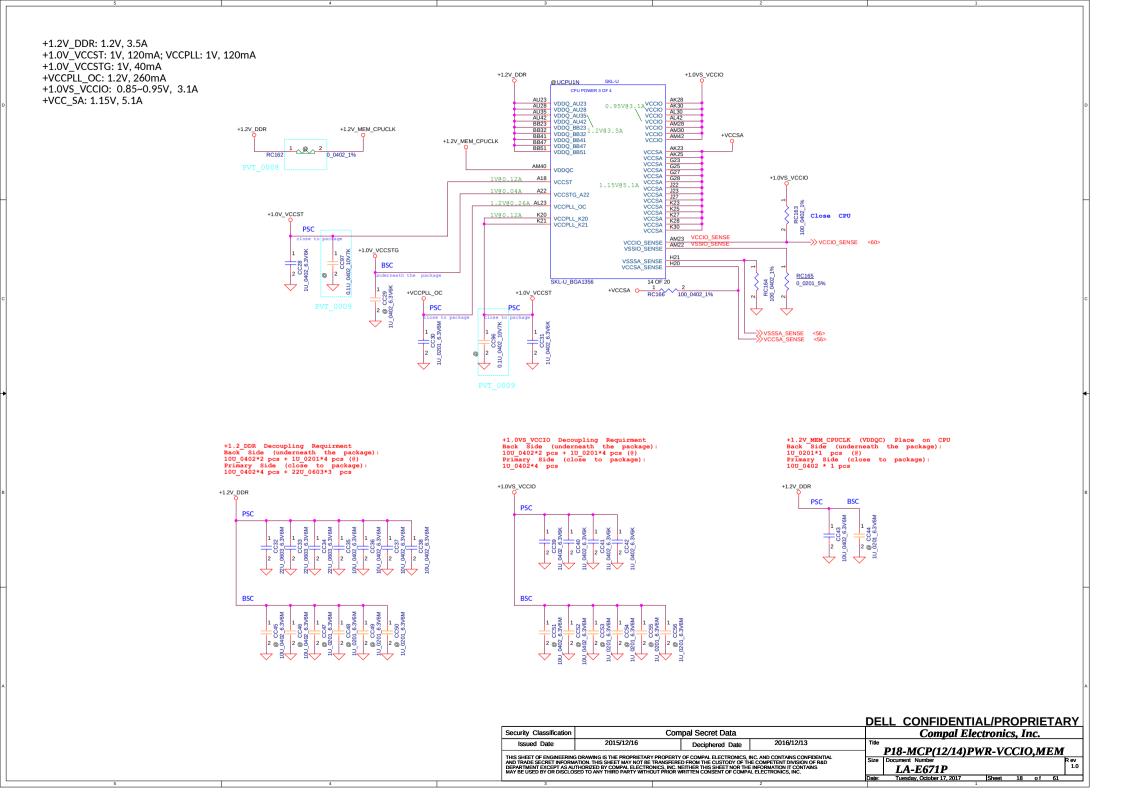


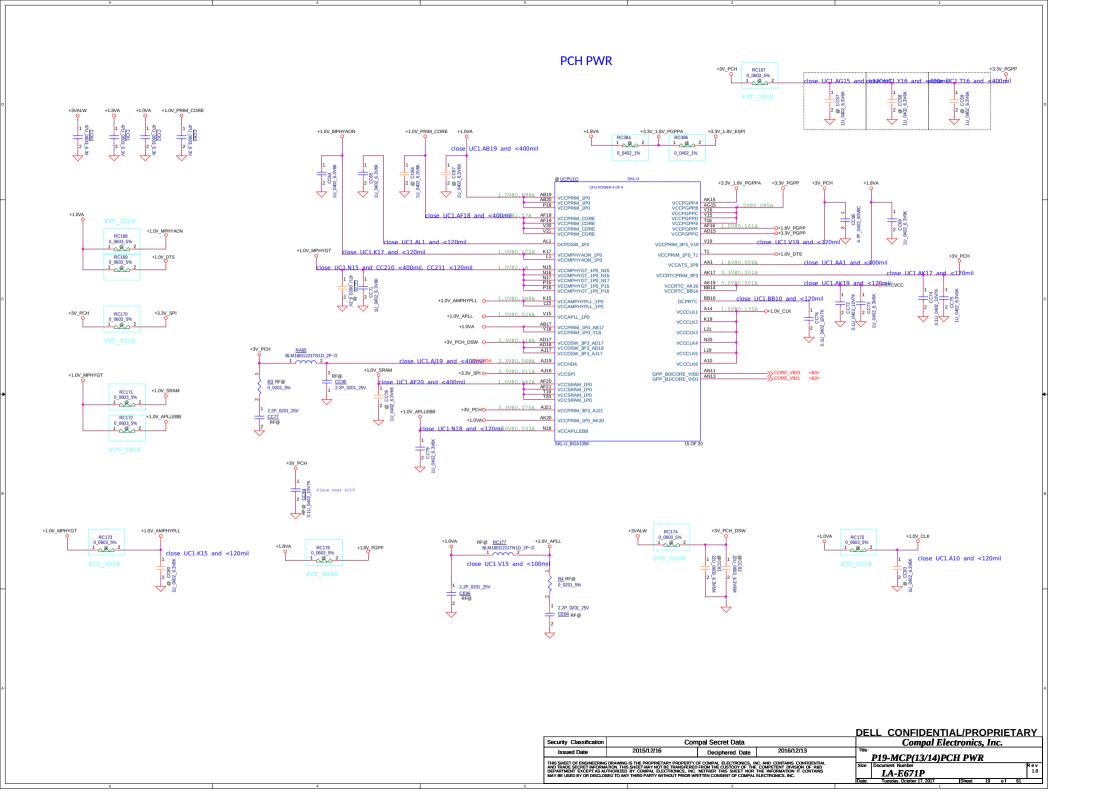


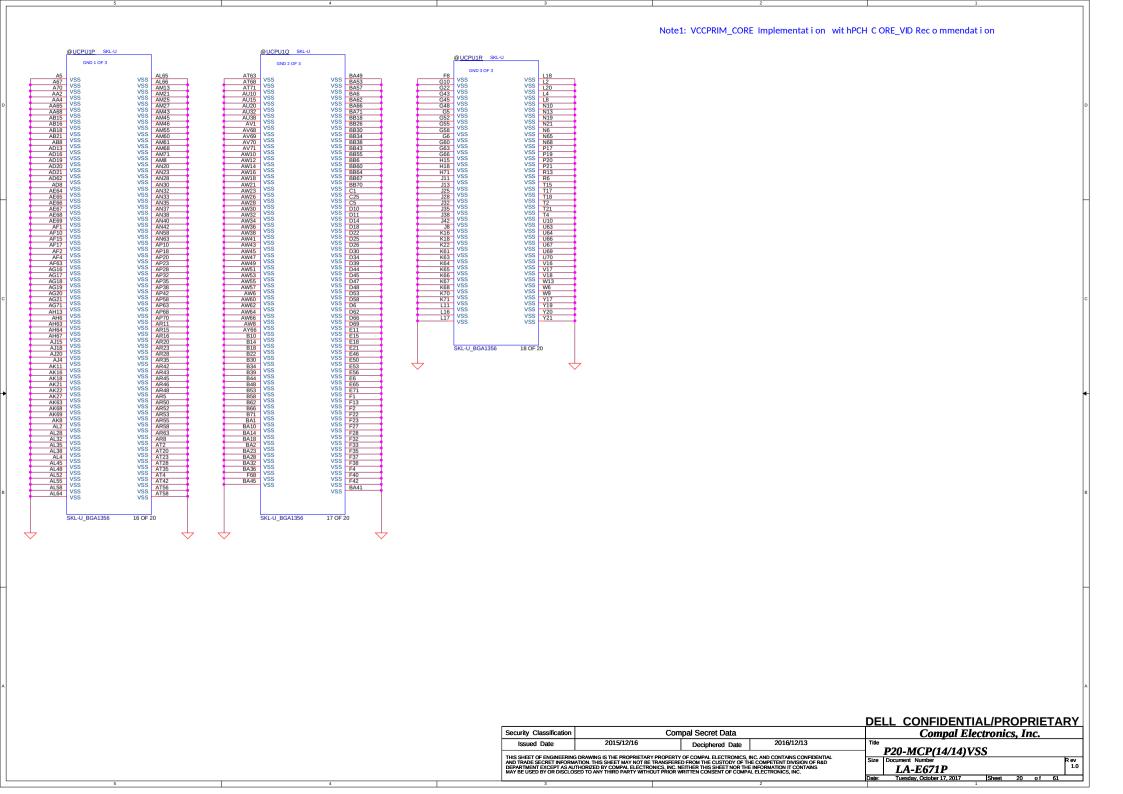


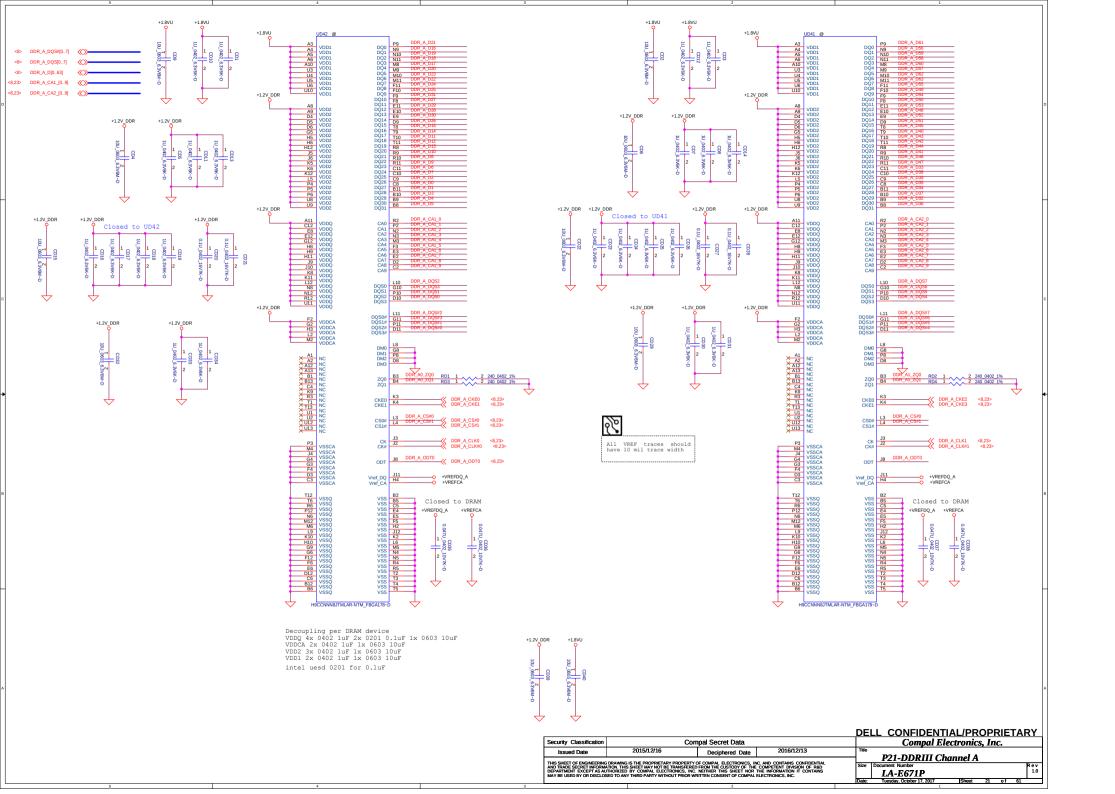


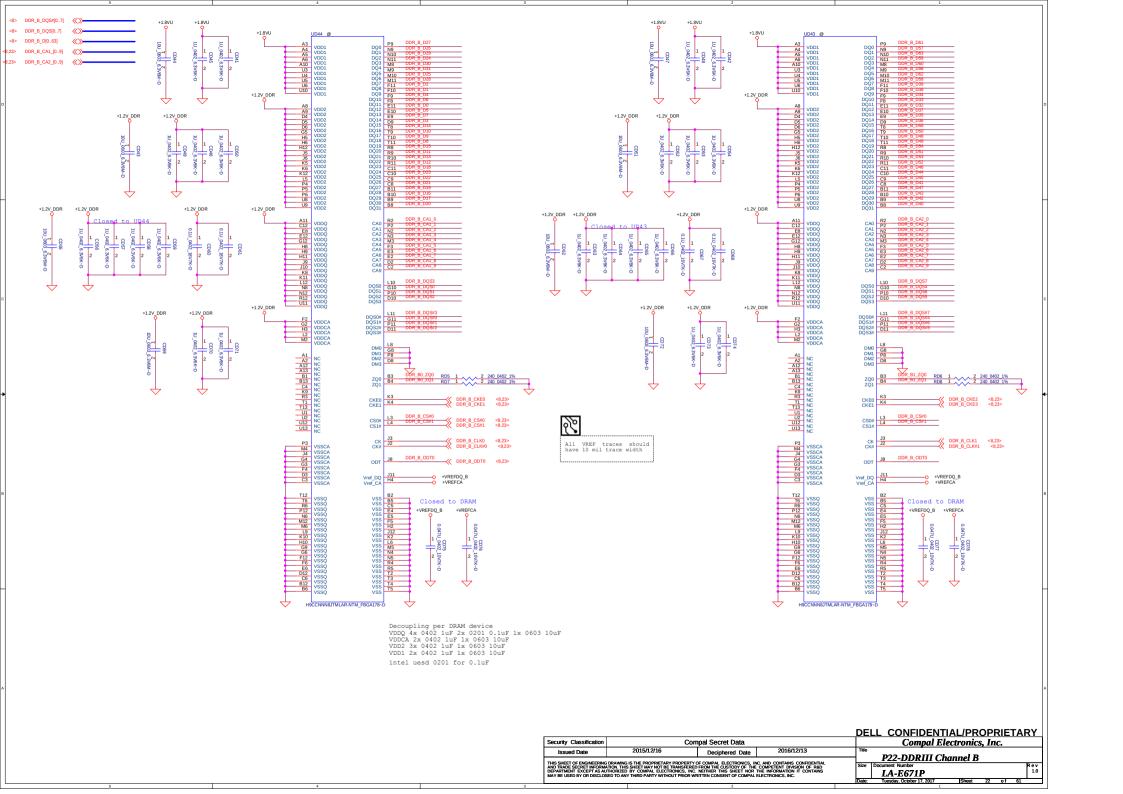


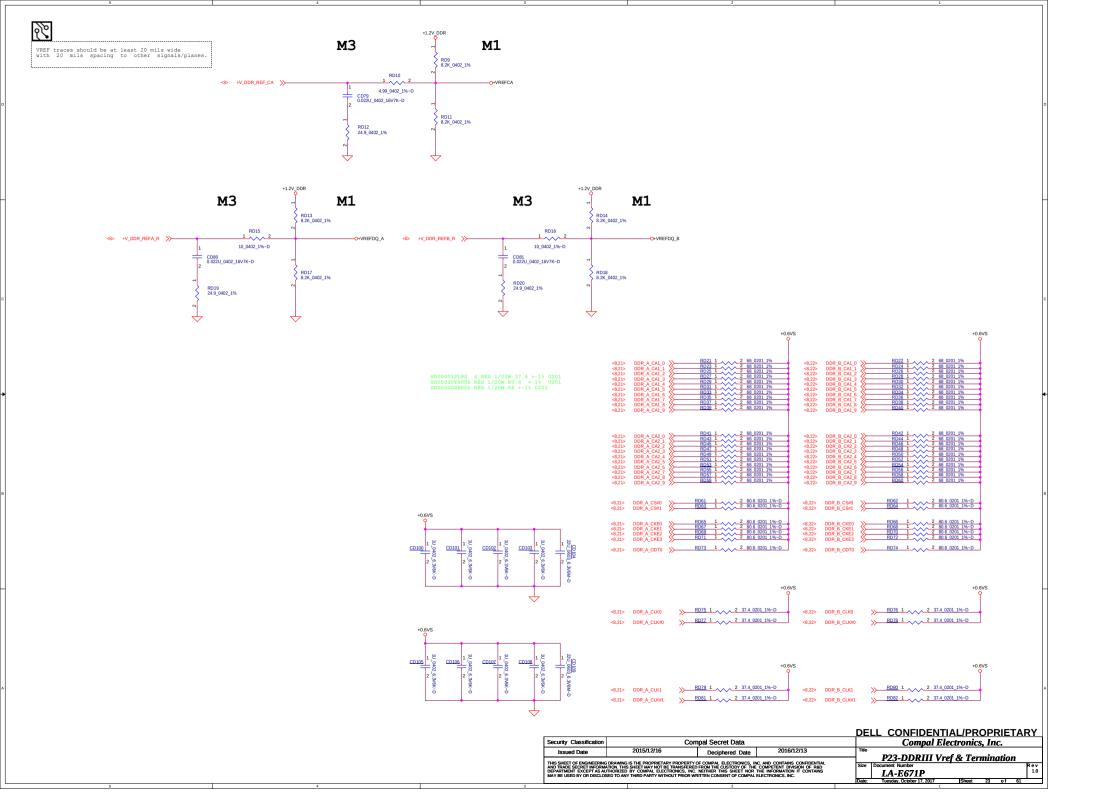


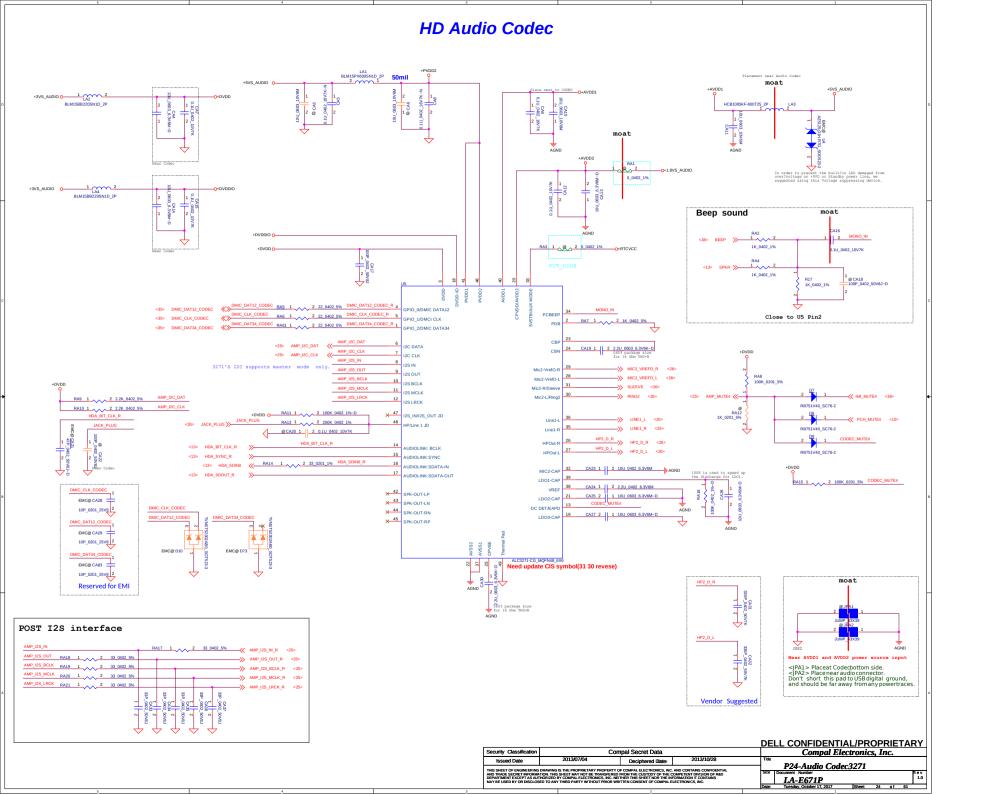


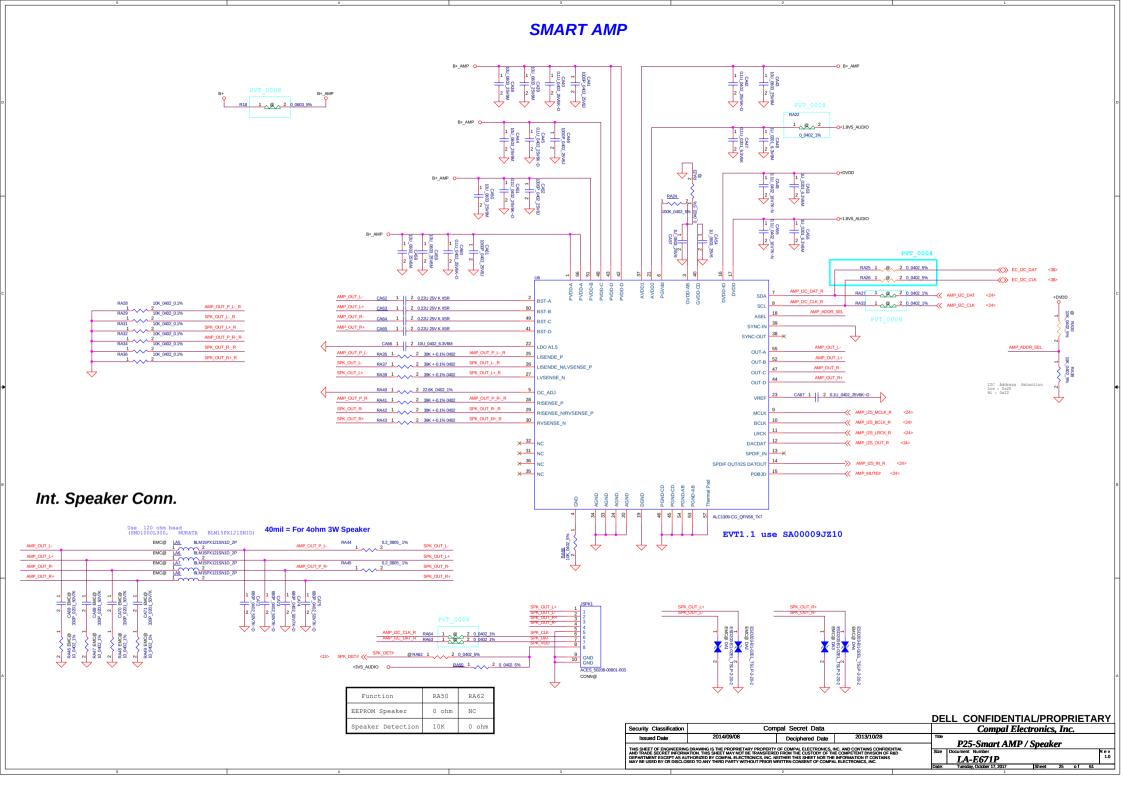




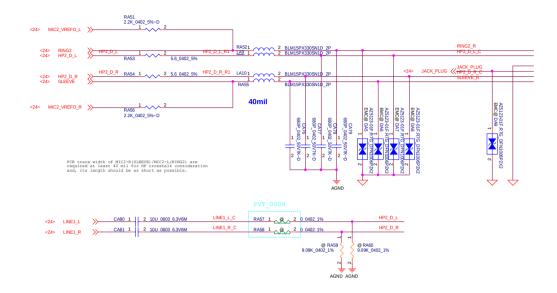


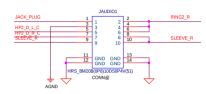






Universal Audio Jack





Security Classification

Compal Secret Data

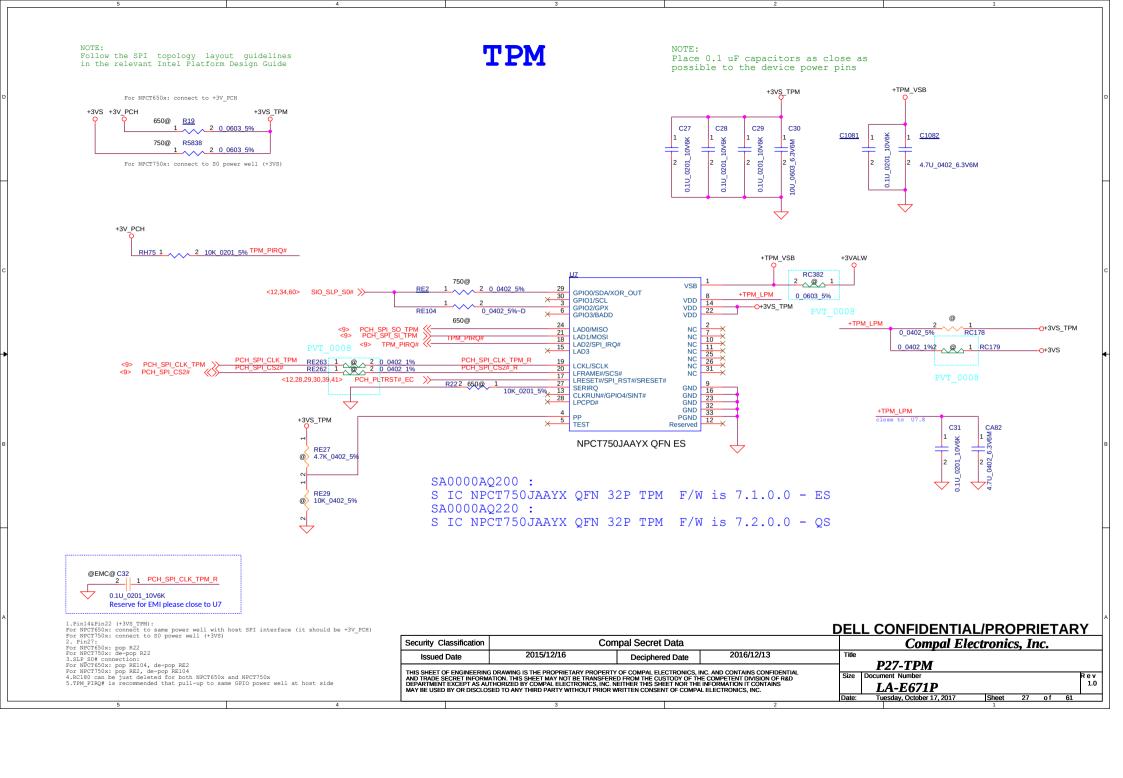
Susued Date

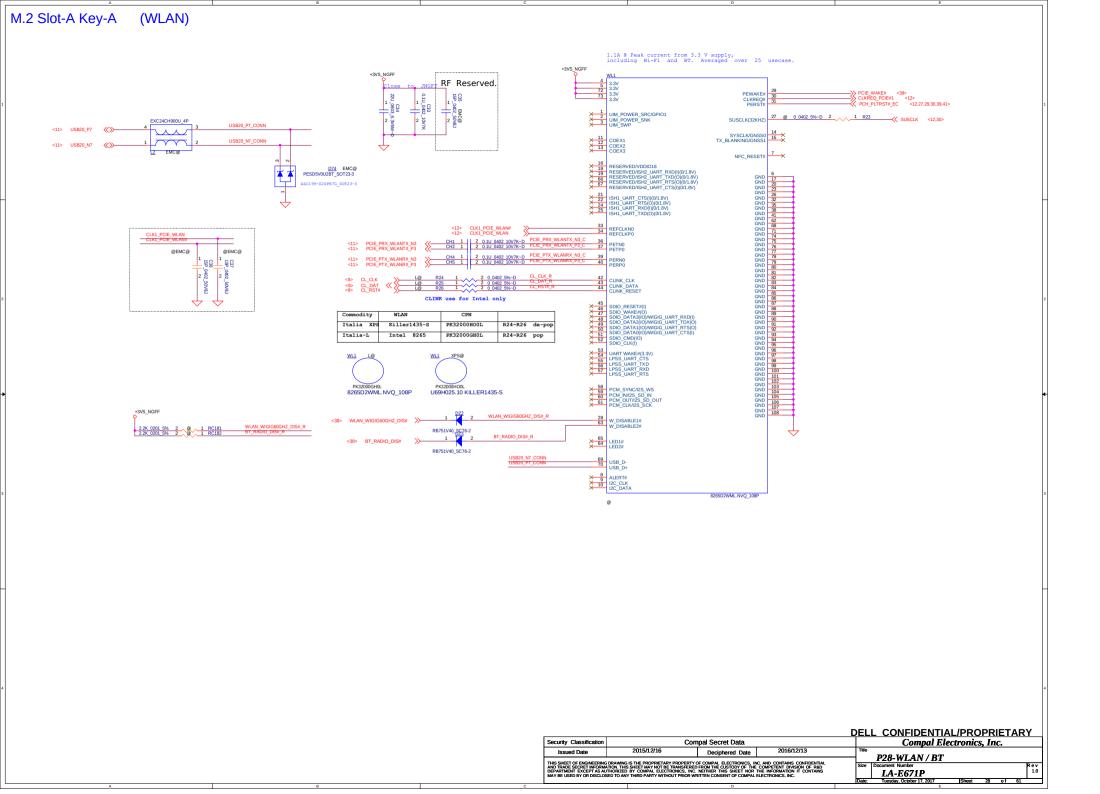
2041/09/08

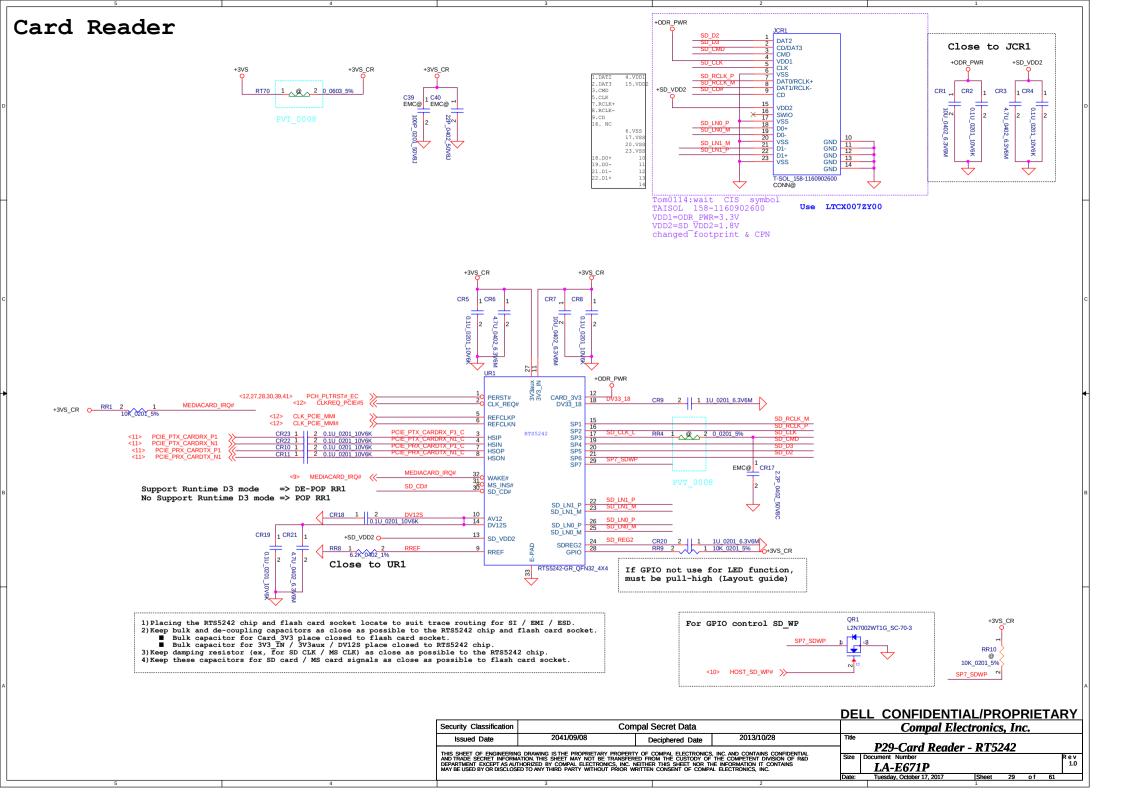
Deciphered Date

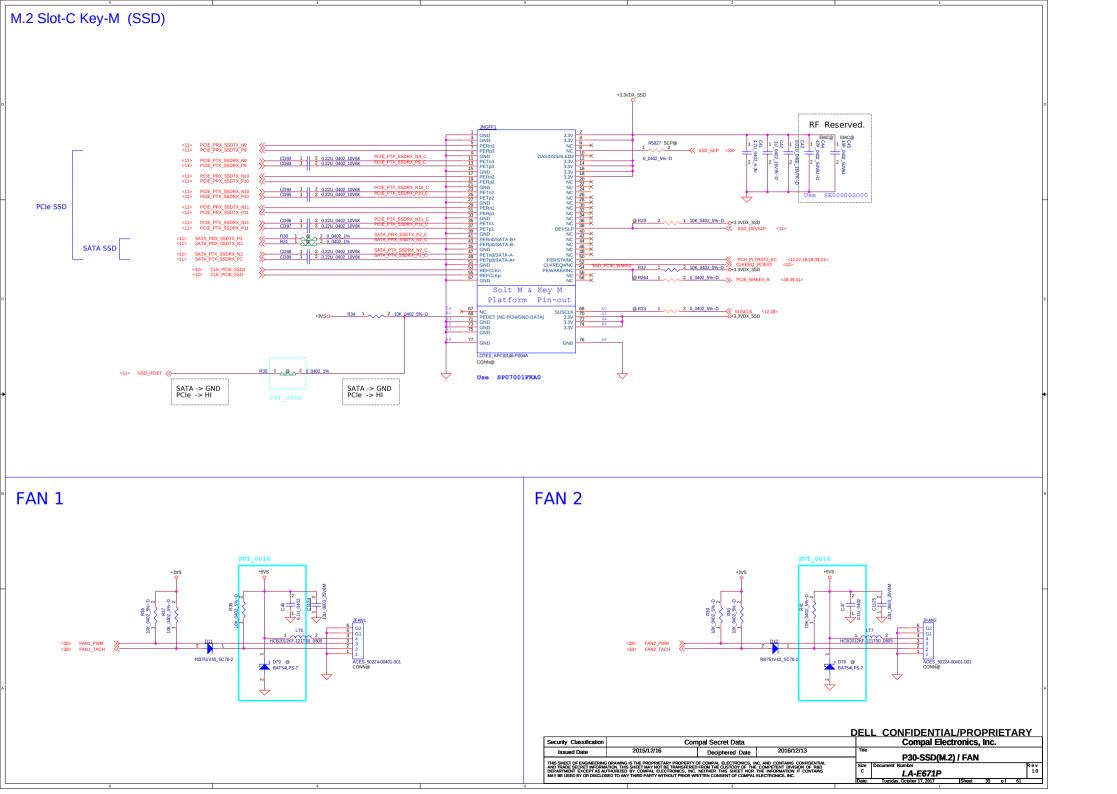
2013/10/28

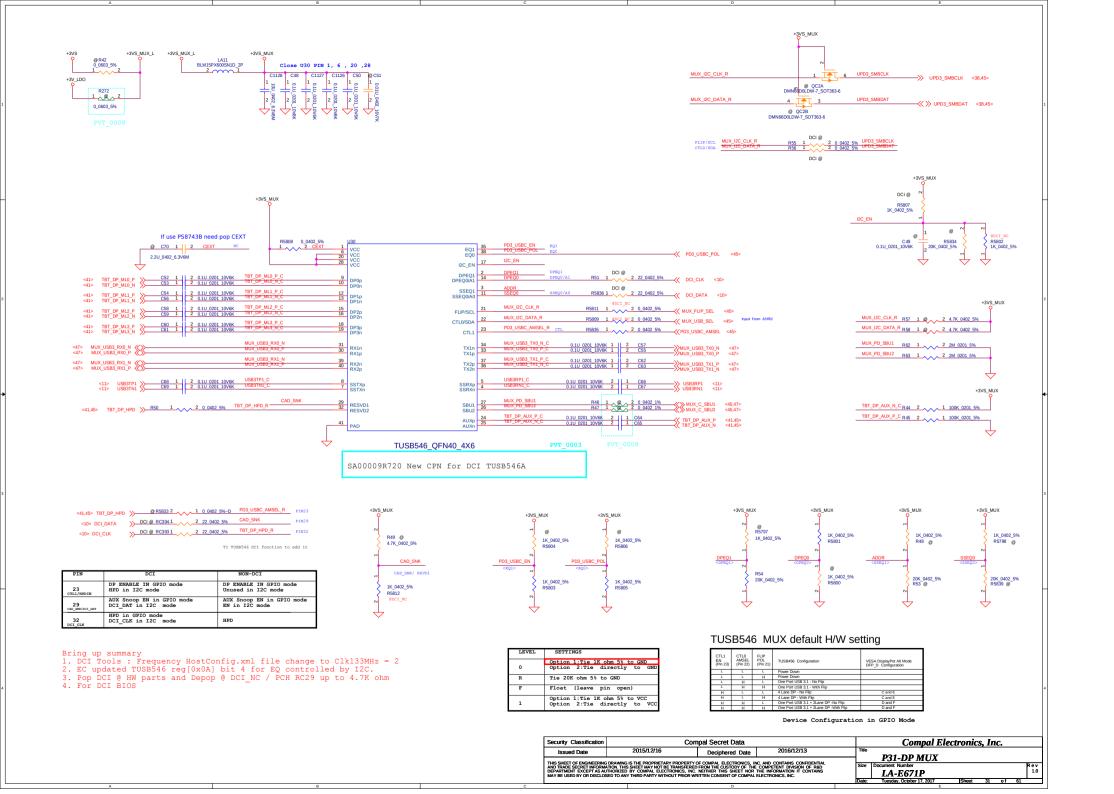
This SHEET for Enwiresteins Dawwin, is Title PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONTRIBENTUL AND TOWN SHEET FOR THE CONTENS OF THE CONTRIBENT OF THE CONTRIB

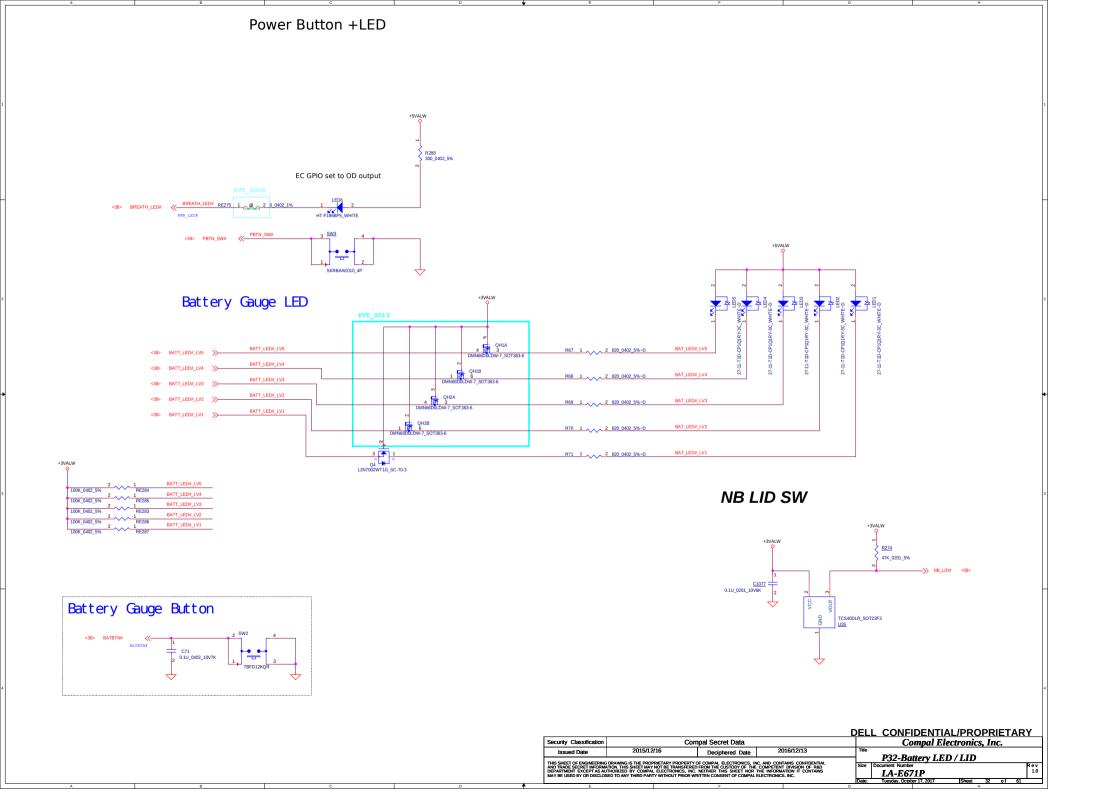


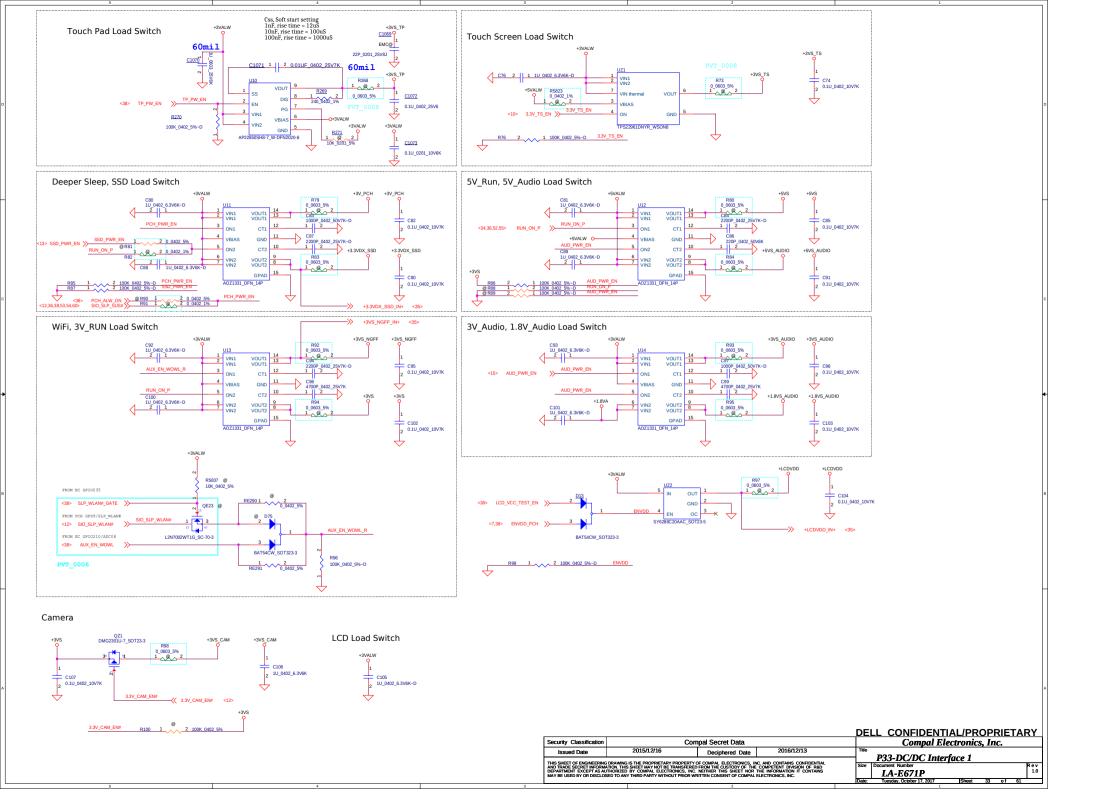


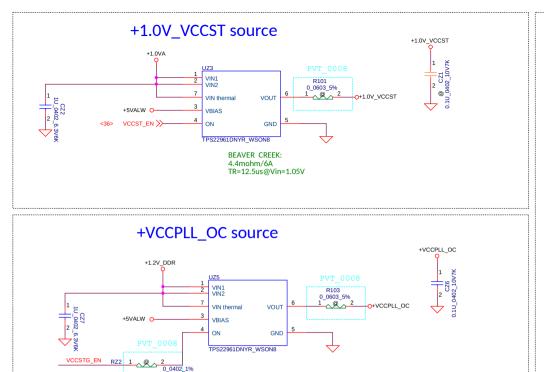


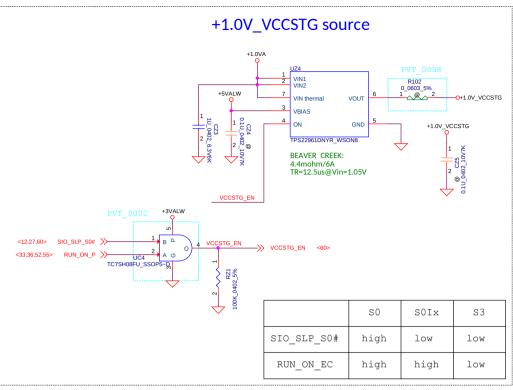


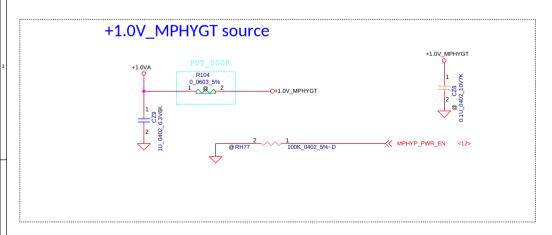




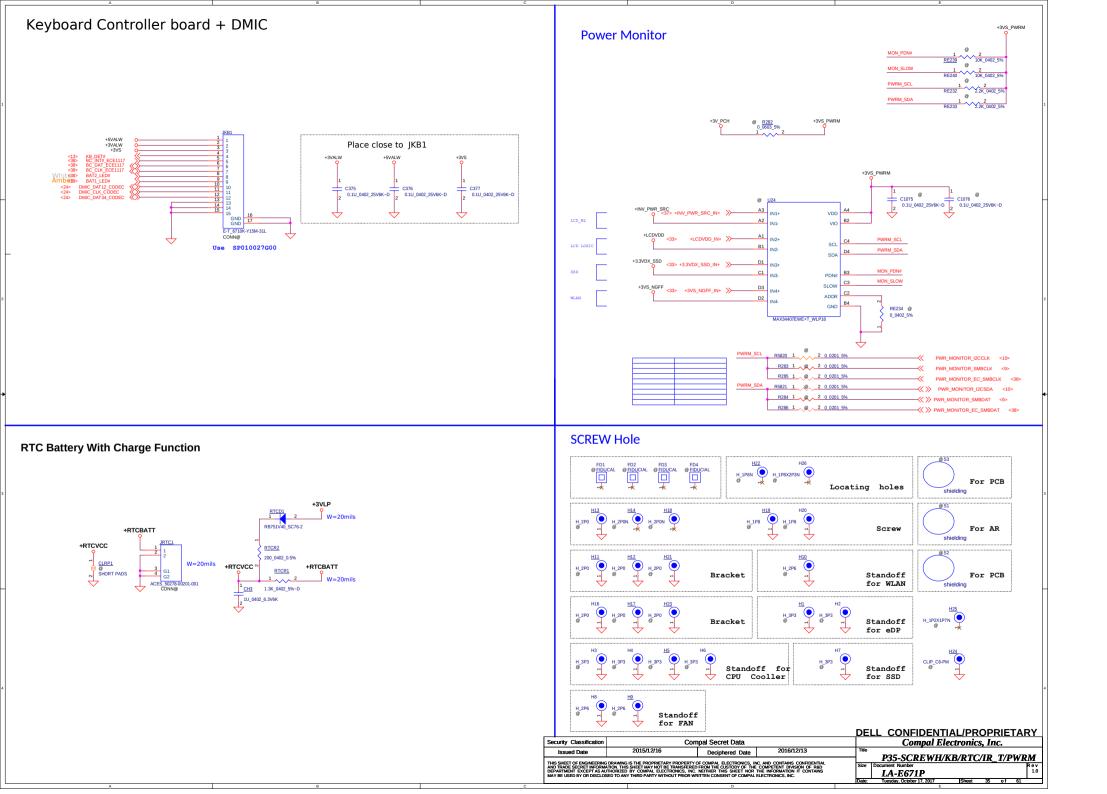


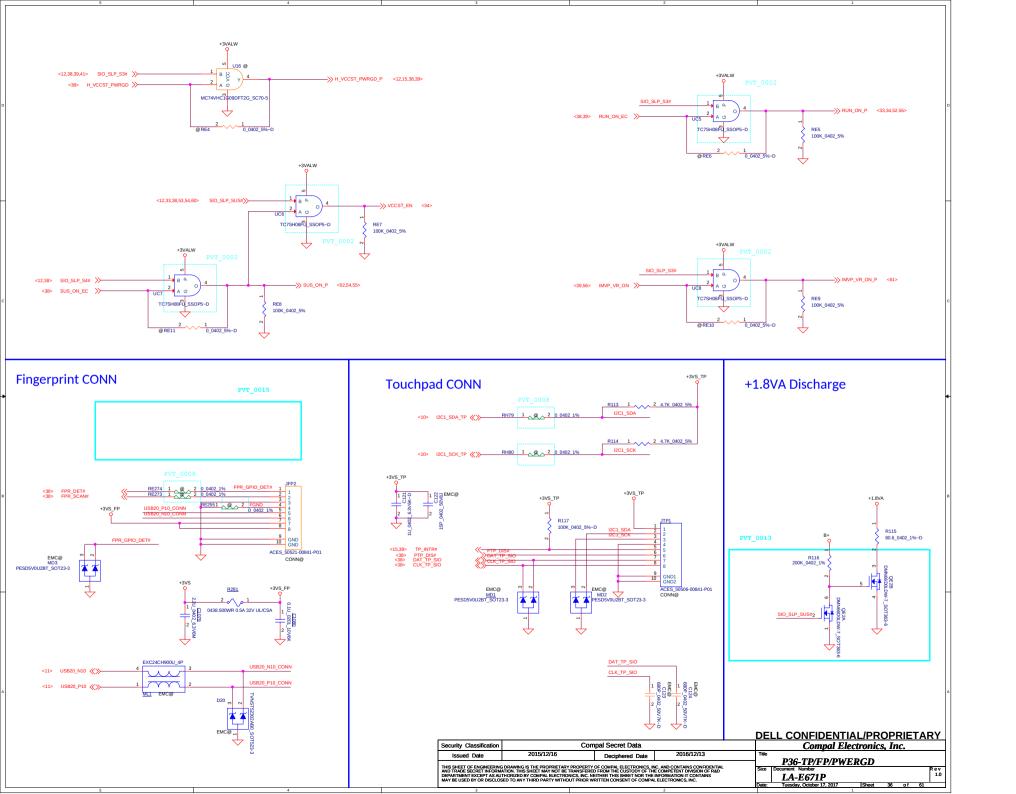


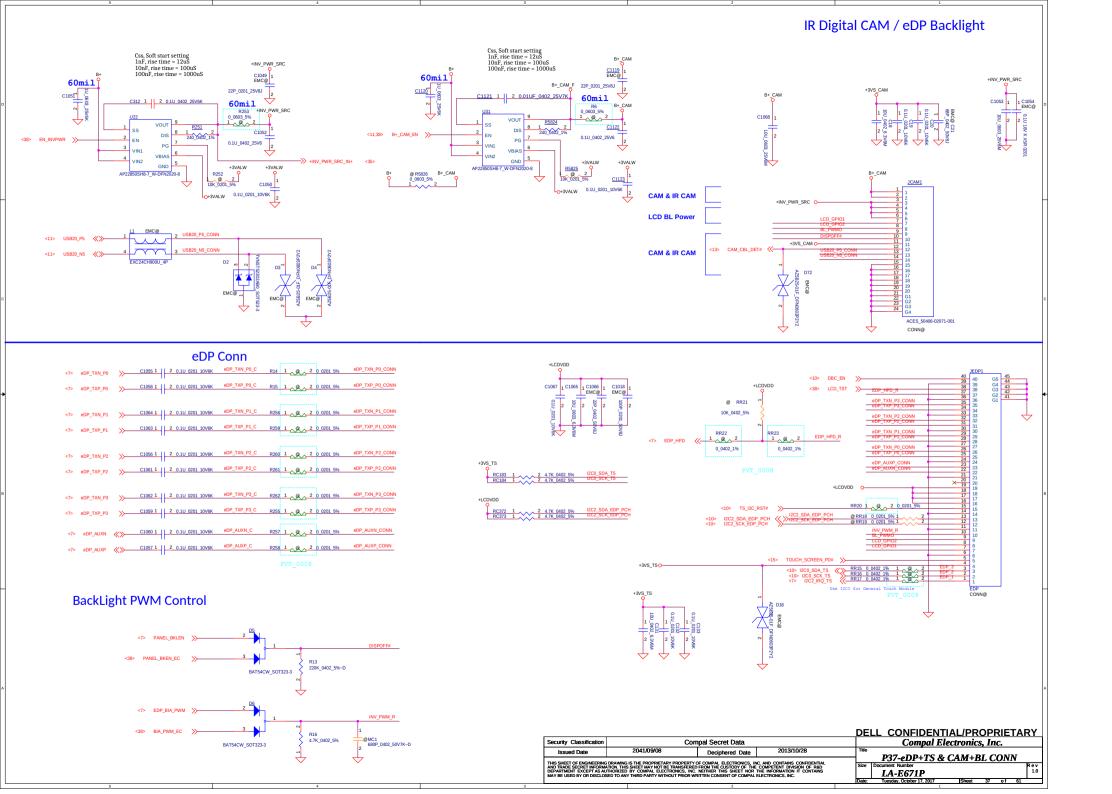


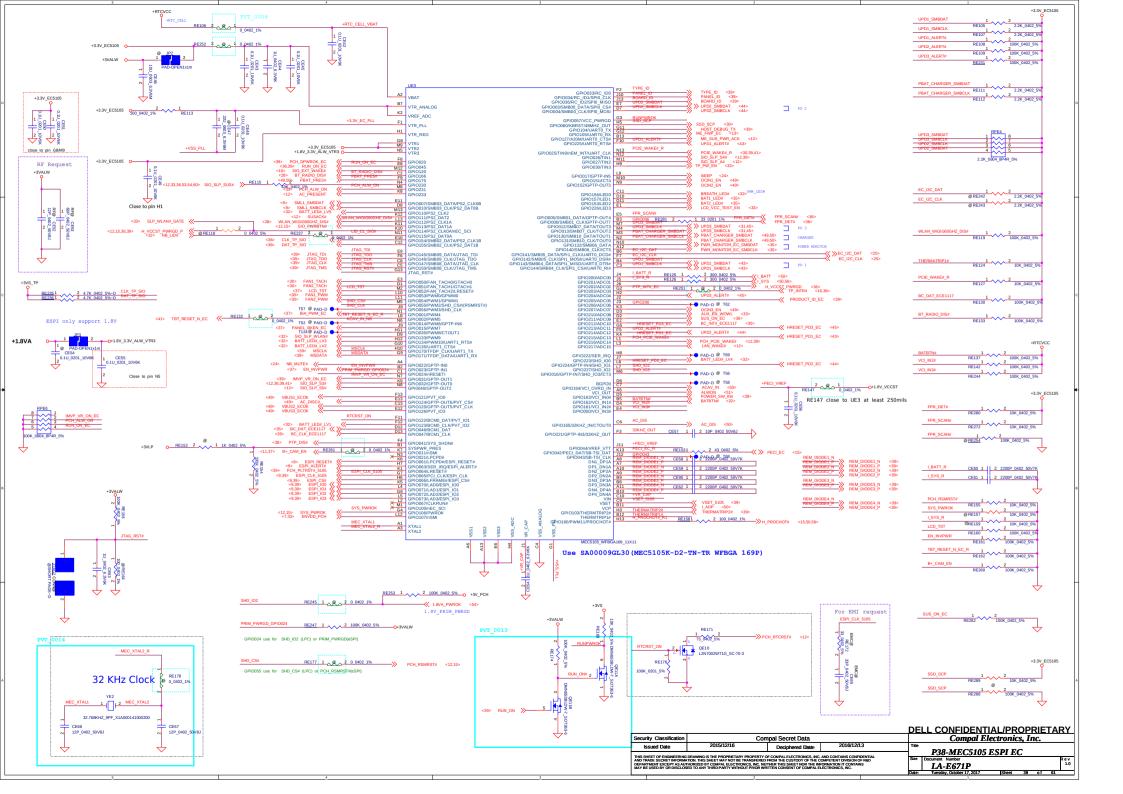


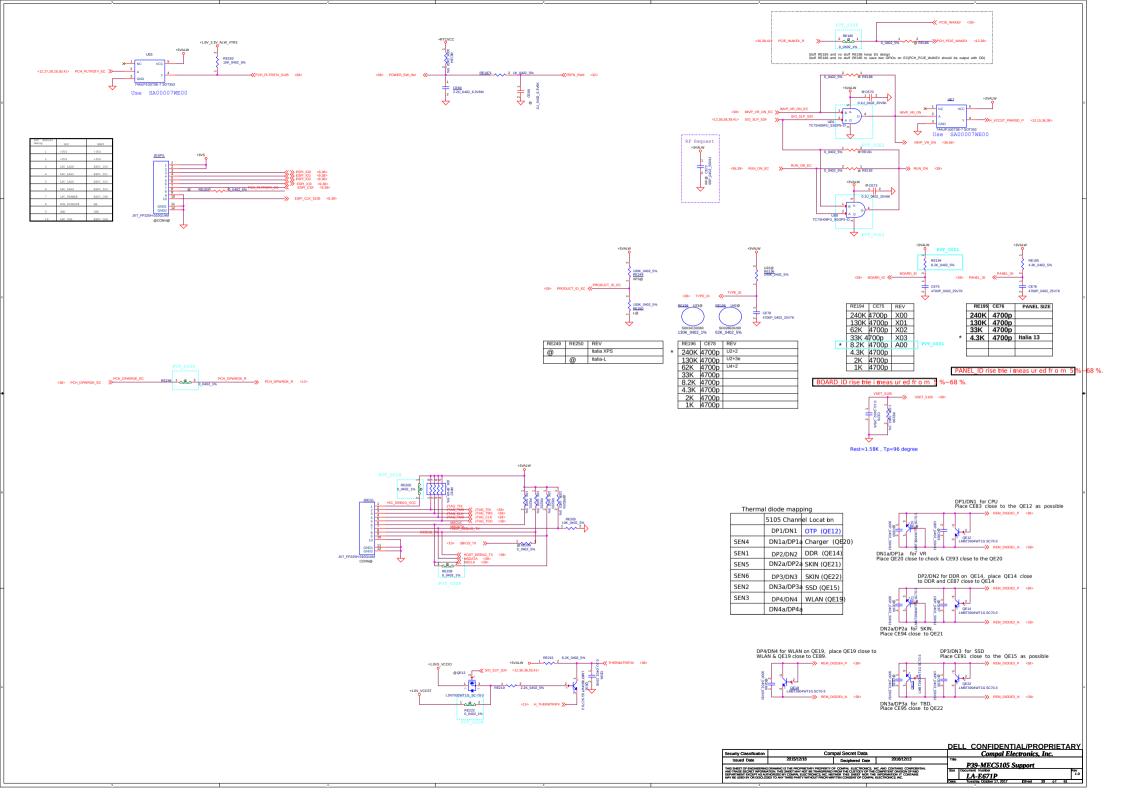
		DELL CONFIDENTIAL/PROPRIETARY								
Security Classification	Compal Secret Data			Compal Electronics, Inc.						
Issued Date	2015/12/16	Deciphered Date	2016/12/13	Title	D24 DC/DC Interfere 2					
AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE COSTOUT OF THE COMMETER IN DIVISION OF RED DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. BETTHER 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.				Size	P34-DC/DC Interface 2 Document Number LA-E671P Tuesday, October 17, 2017 Sheet 34 o	Rev 1.0				

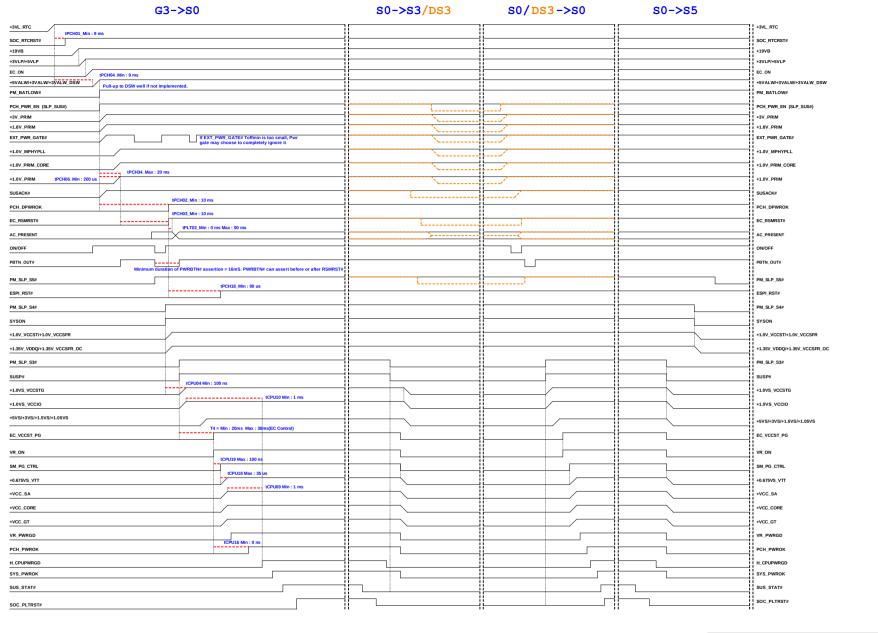






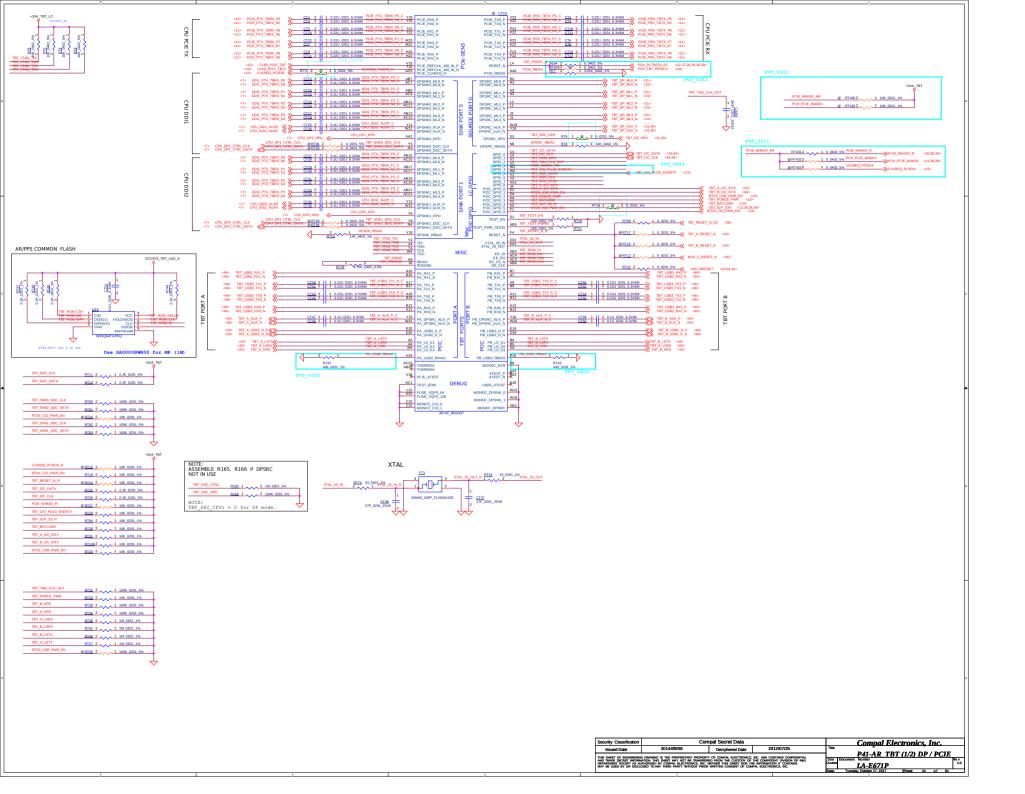


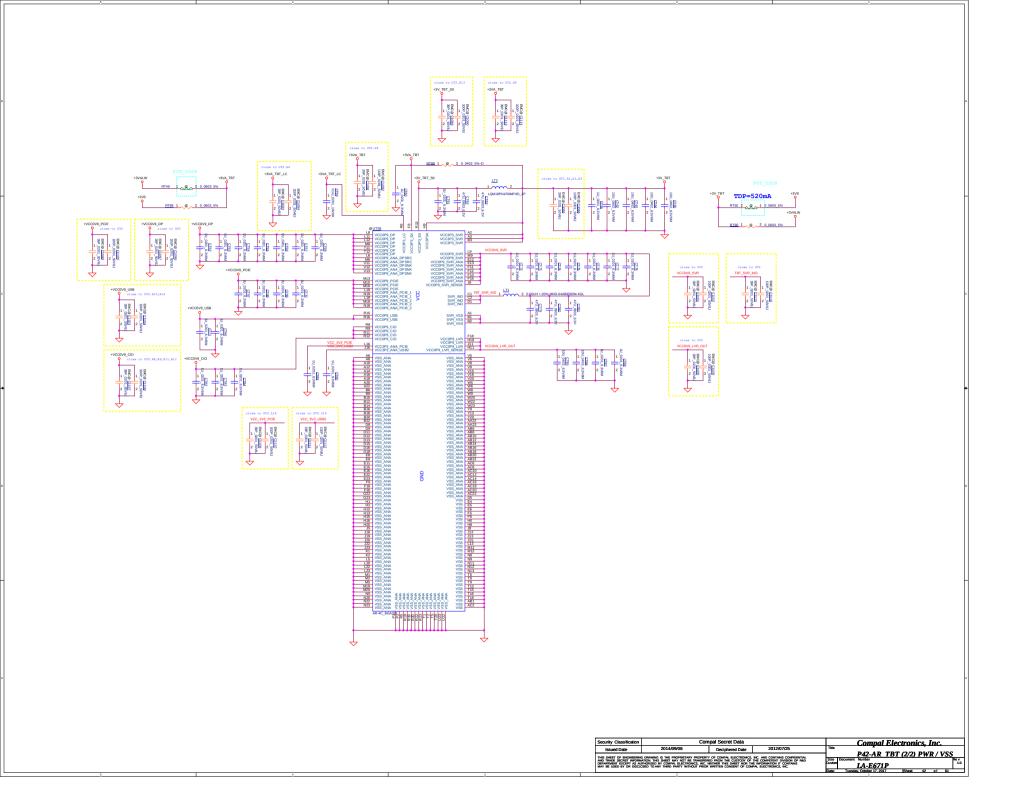


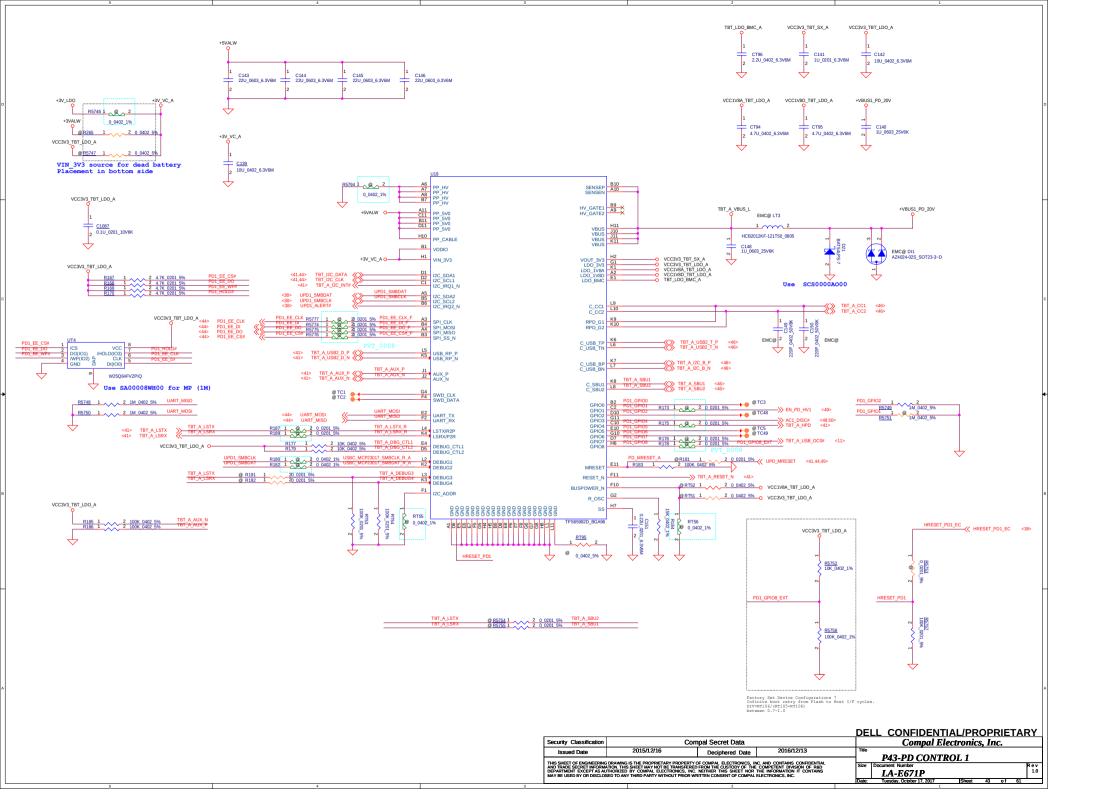


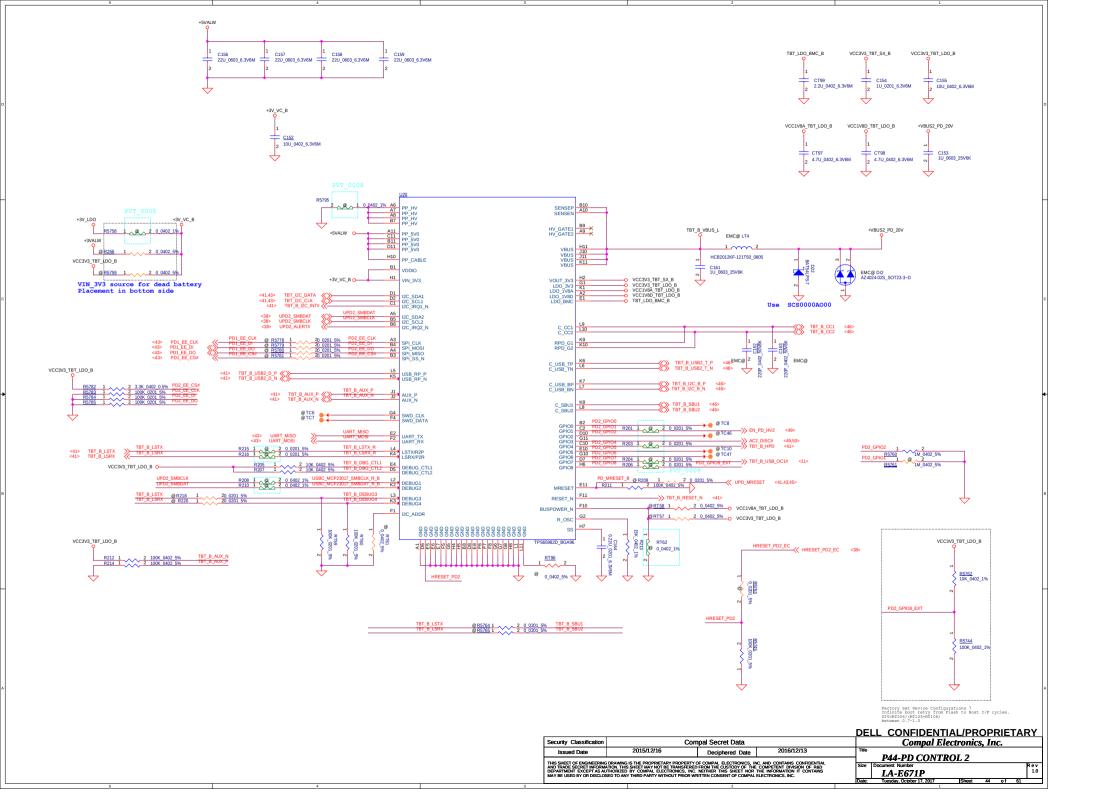
Reference [BAX02-PWR Sequence_KBL-U22_DDR4_Volume_S0iX]

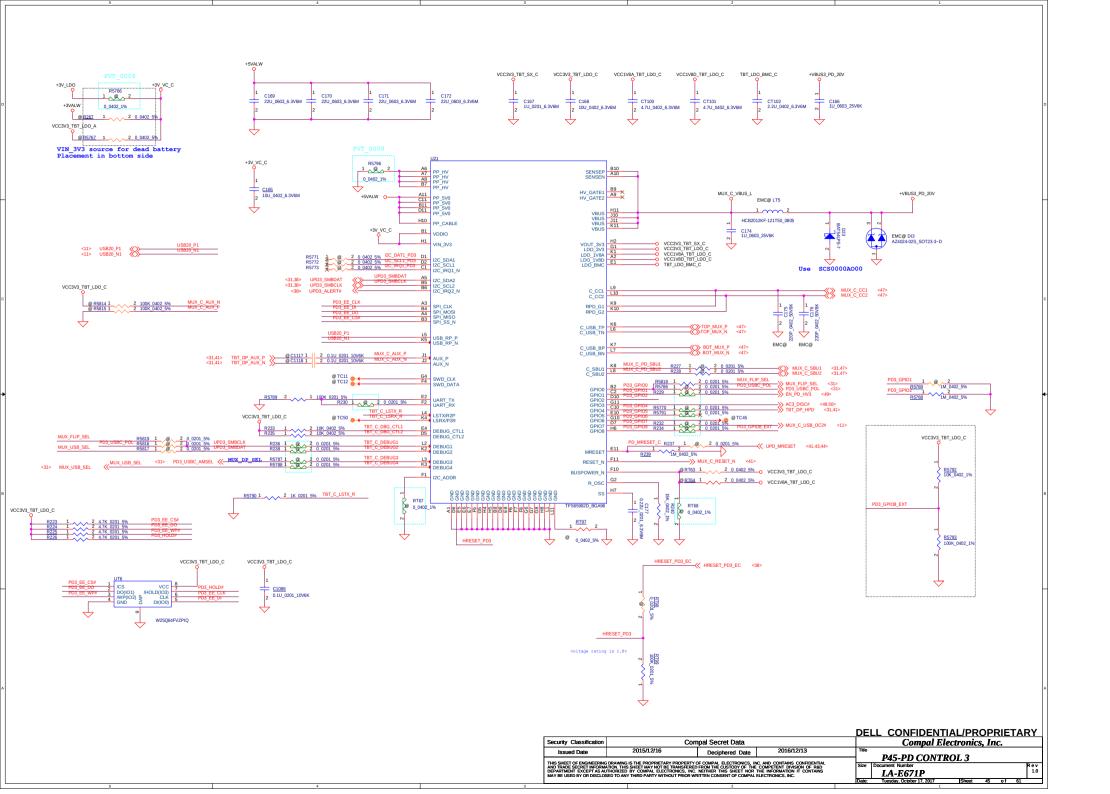
Security Classification	Classification Compal Secret Data			Compal Electronics, Inc.					
Issued Date	2013/07/04	Deciphered Date	2013/10/28	Title	P40-Power Sequence				
THE SHEET OF ENGINEERING ENHANCE IS THE PROPRIETINFY PROPRIETY OF COMEN. BLECTRONCES, INC. AND CONTRAINS CONFIDENTIAL AND TRACE SCIENT INFORMATION. THE SHEET MAN OFF OR TRANSFERD FROM THE CUSTORY OF THE COMPETENT ENVIRON OF RED DEPARTMENT EXCEPT AS AUTHORIZED BY COMEN, EXECTRONCES, INC. NICTIMET THIS SHEET MOR THE REPORMATION IT CONTRAINS MAY BE USED BY OR DESCLOSED TO MAY THESE PRIFY WINDLY PROPER WRITTEN CONSERT OF COMEN, ELECTRONCES, INC.				Size	Document Number LA-E671P	Rev 0.1			

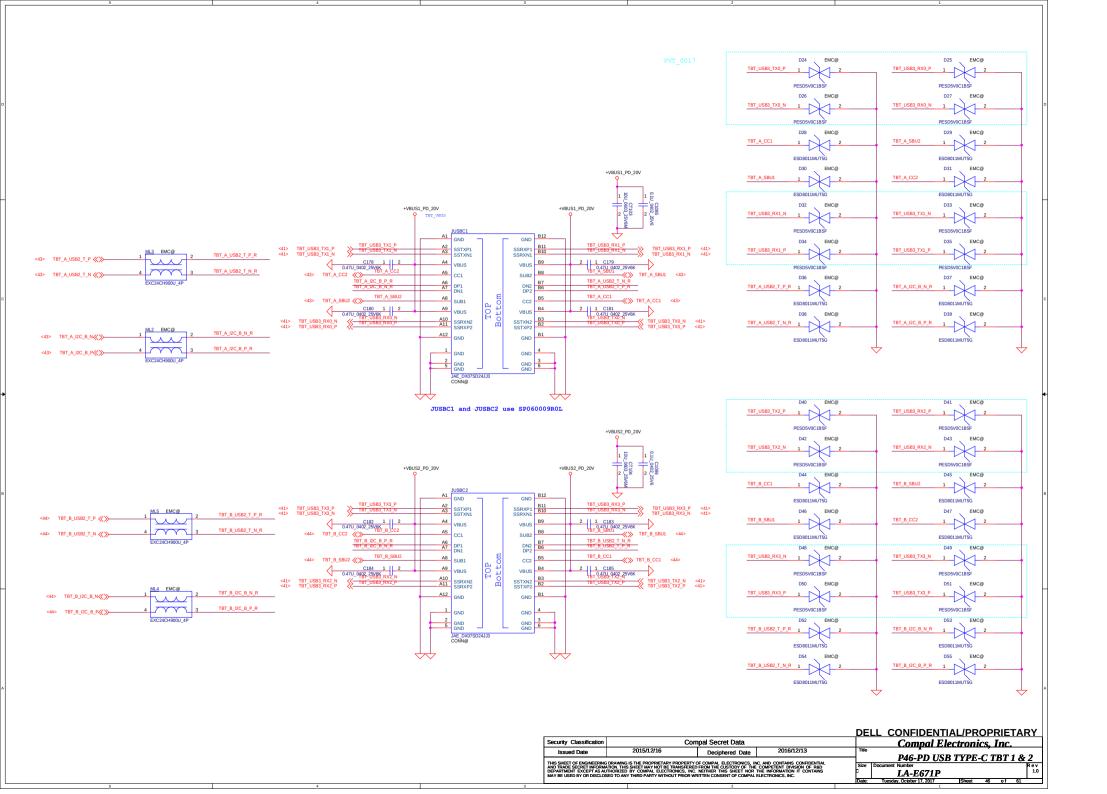


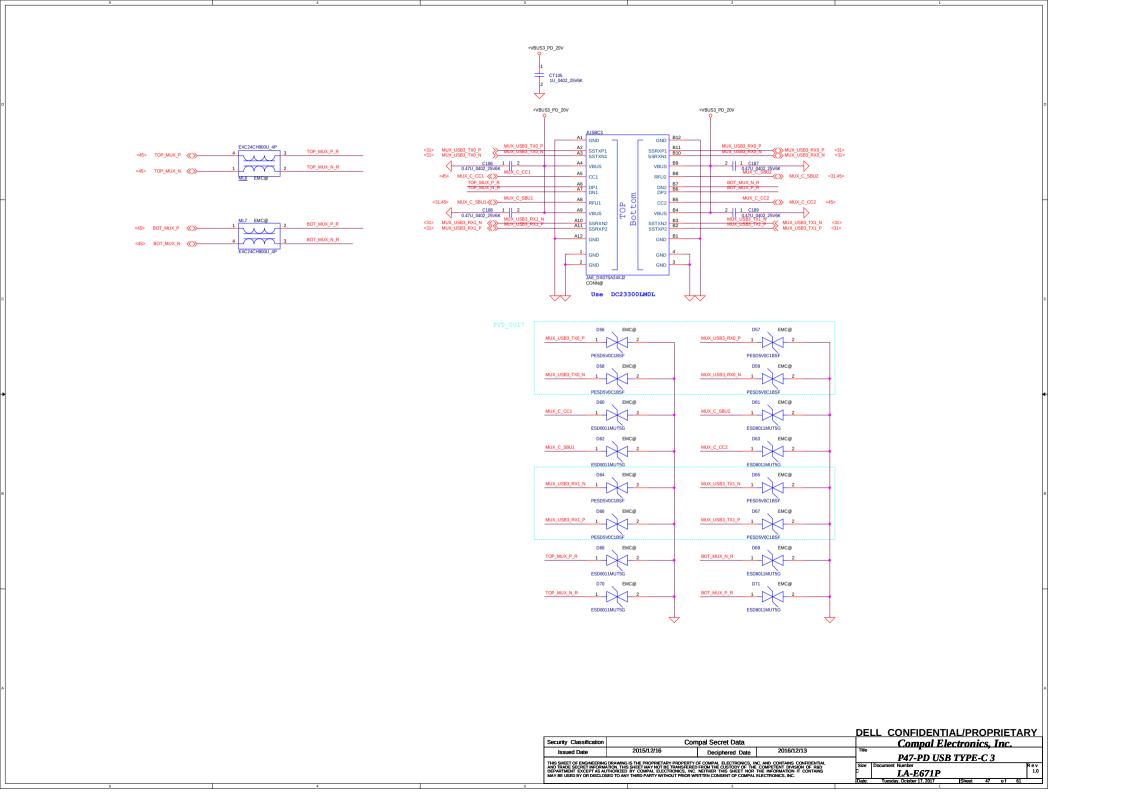


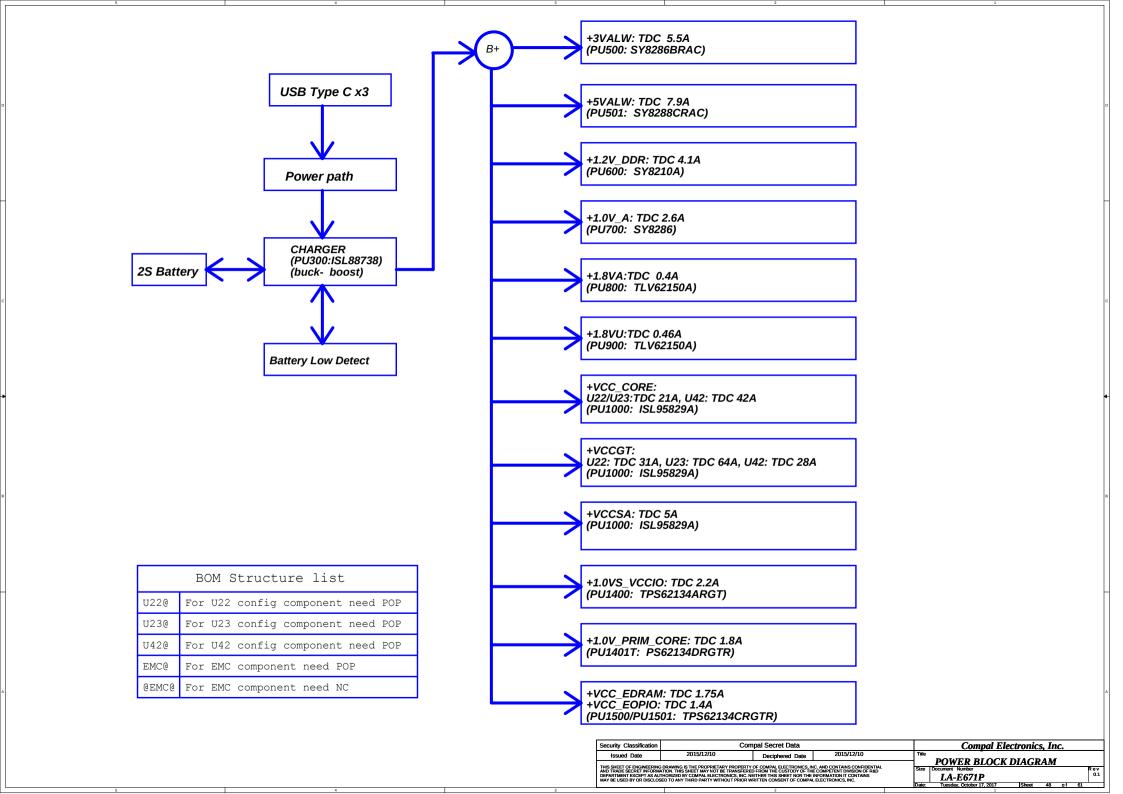


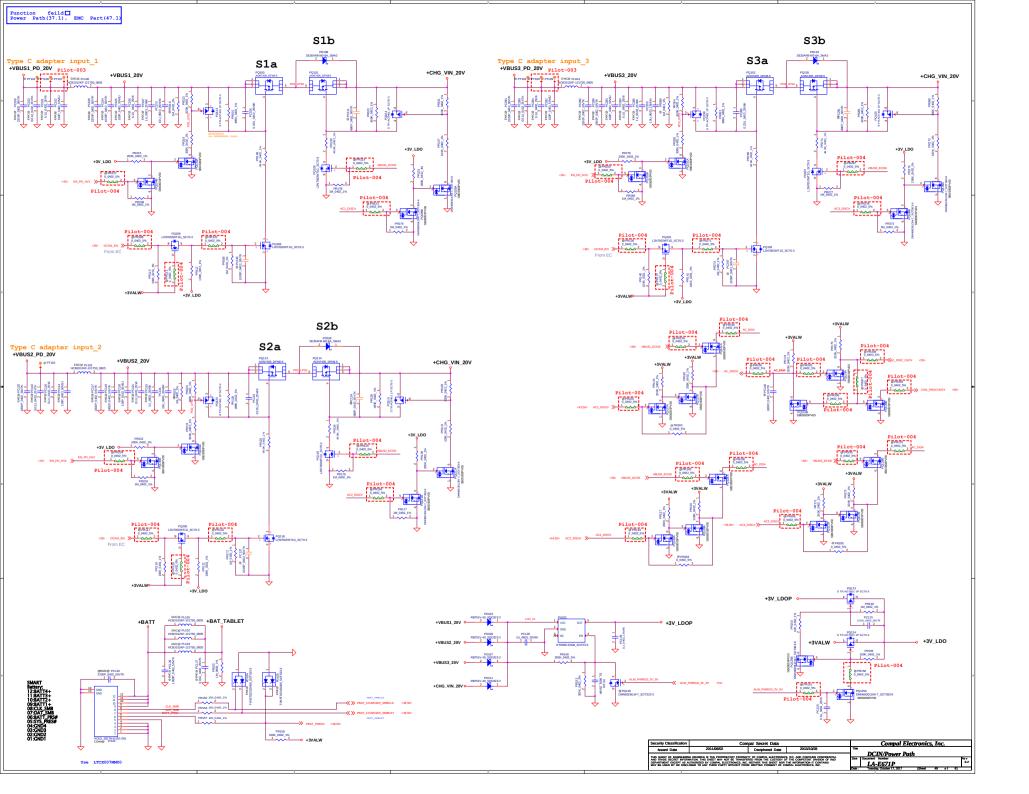


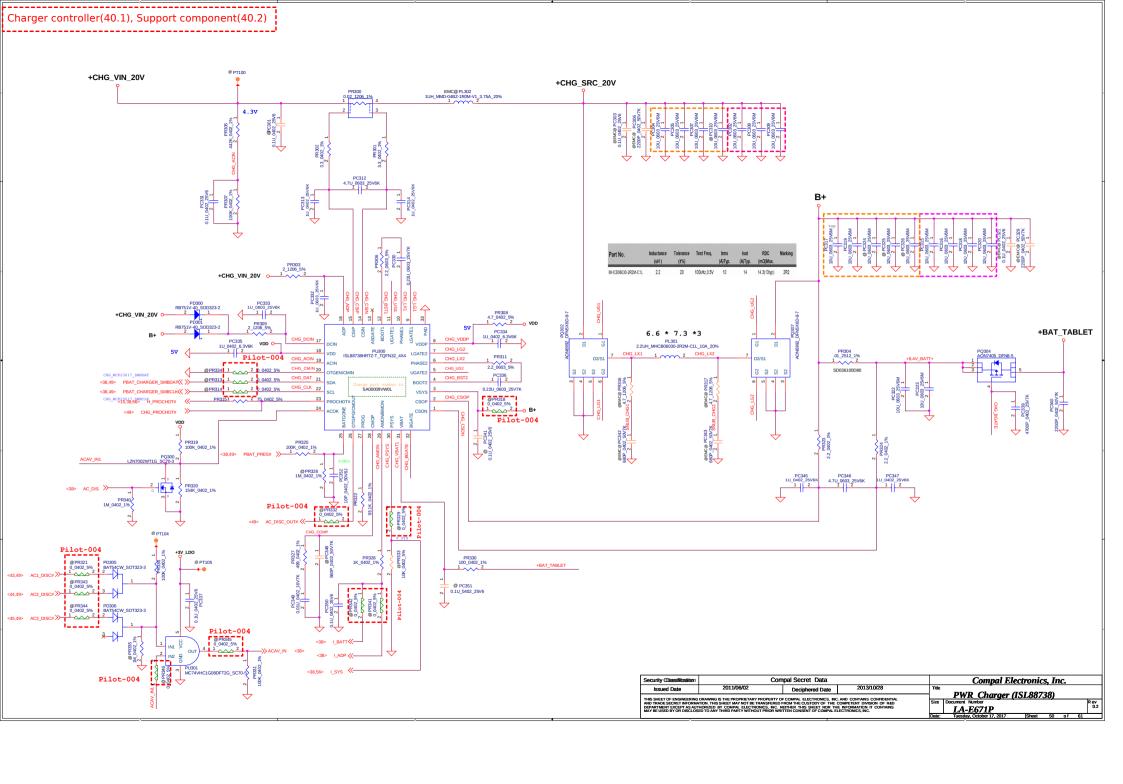


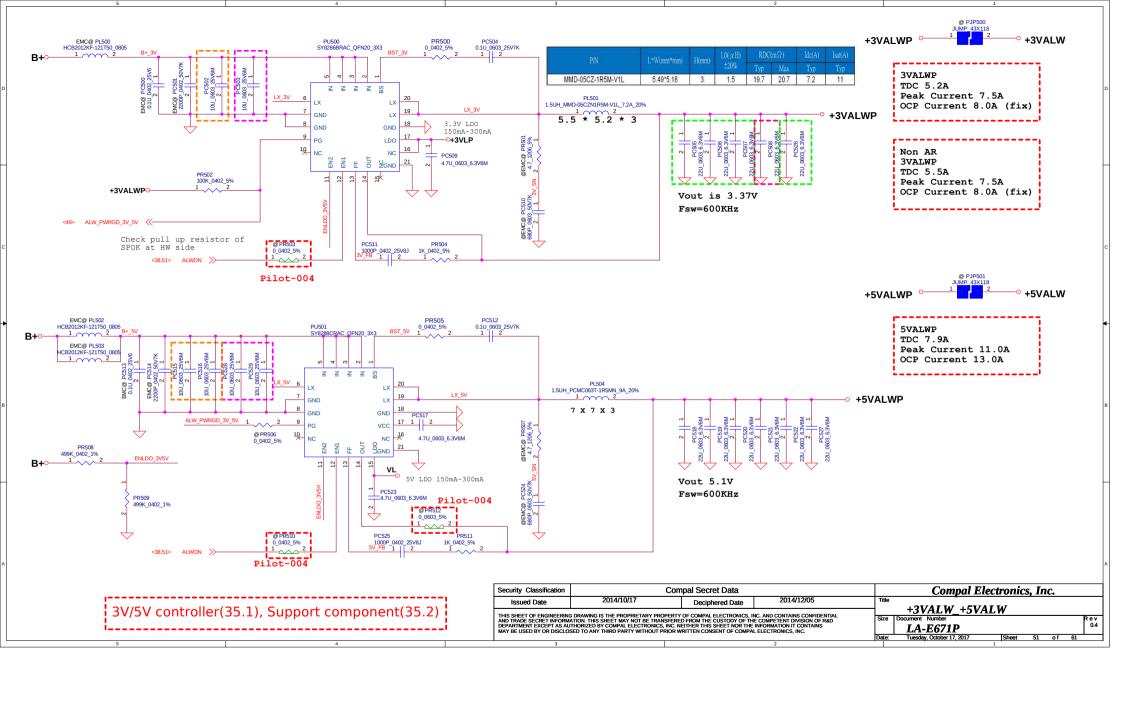


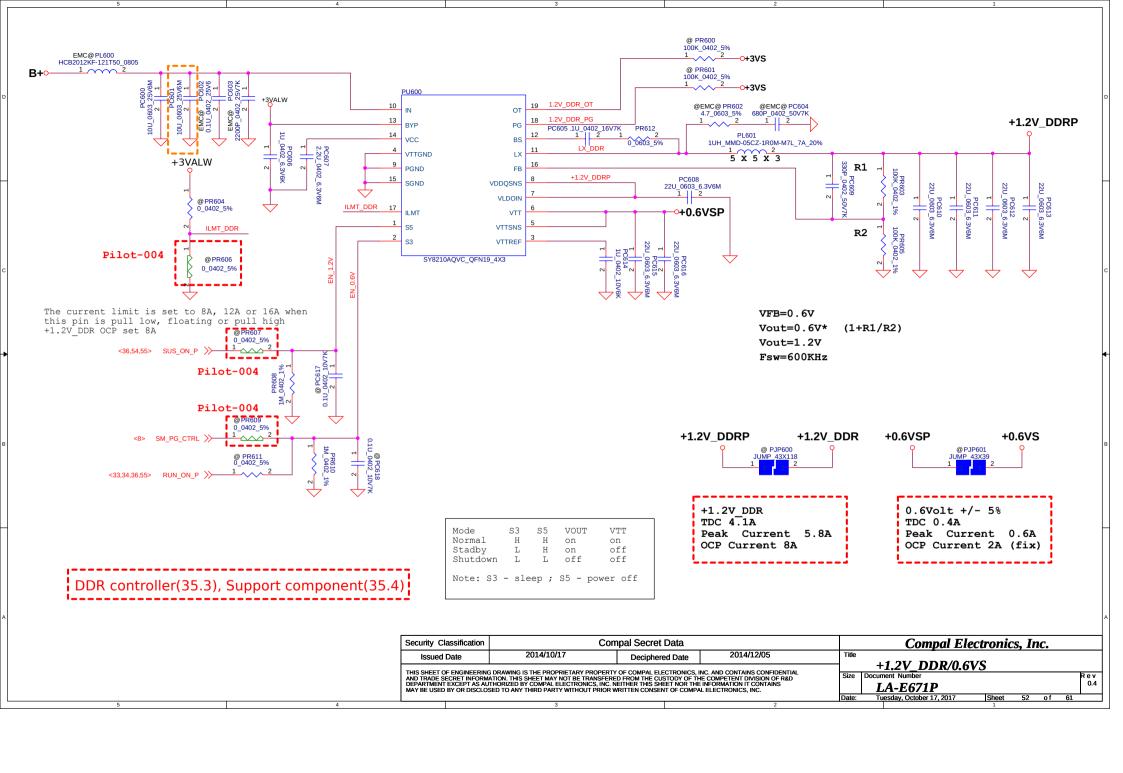


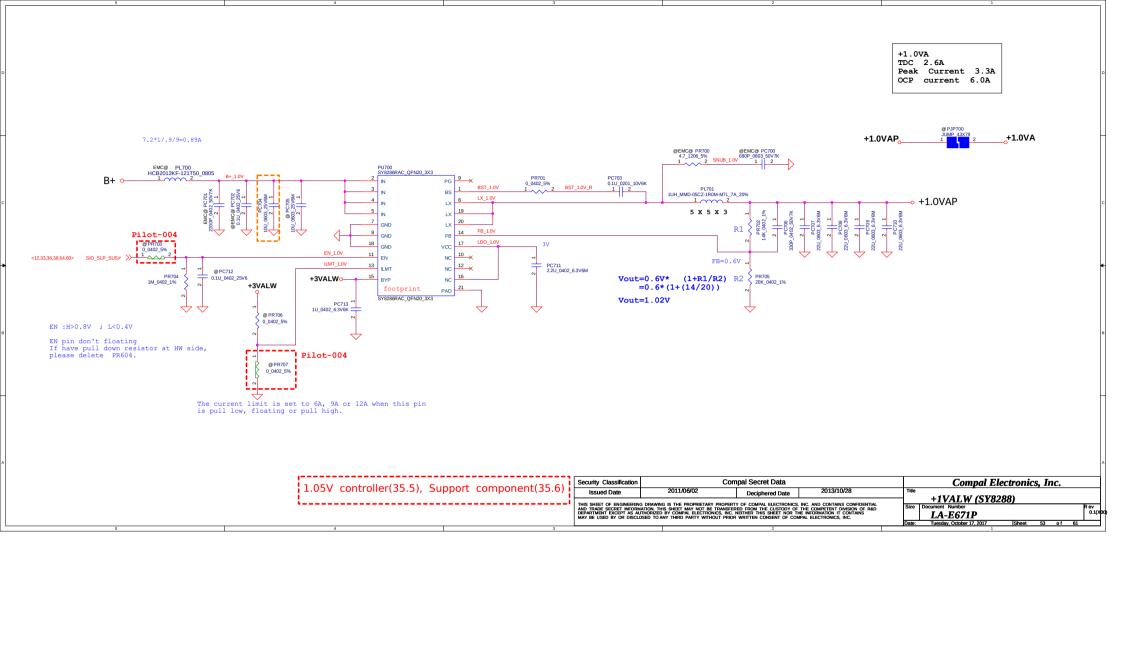


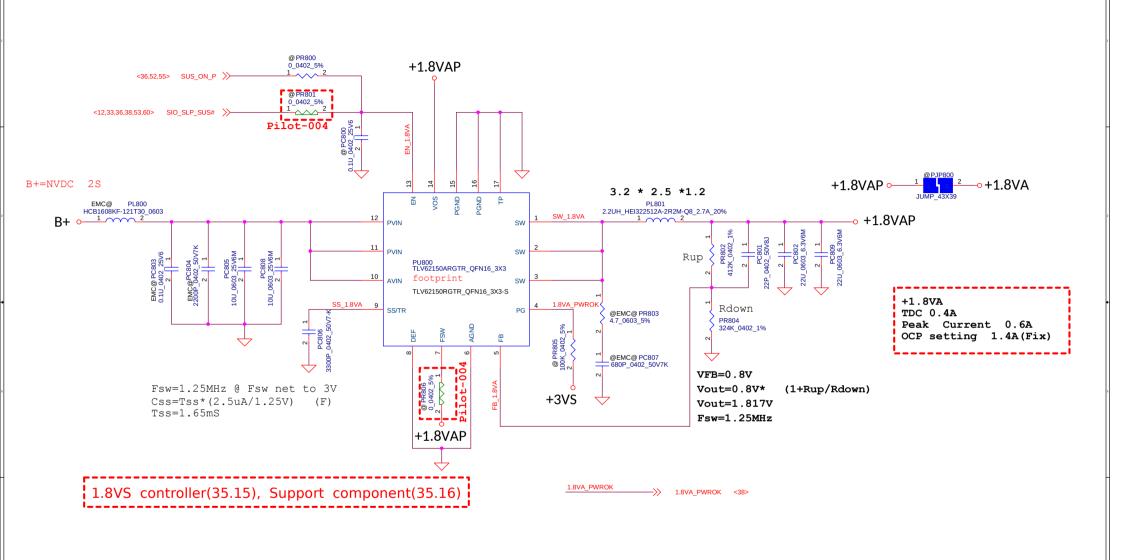




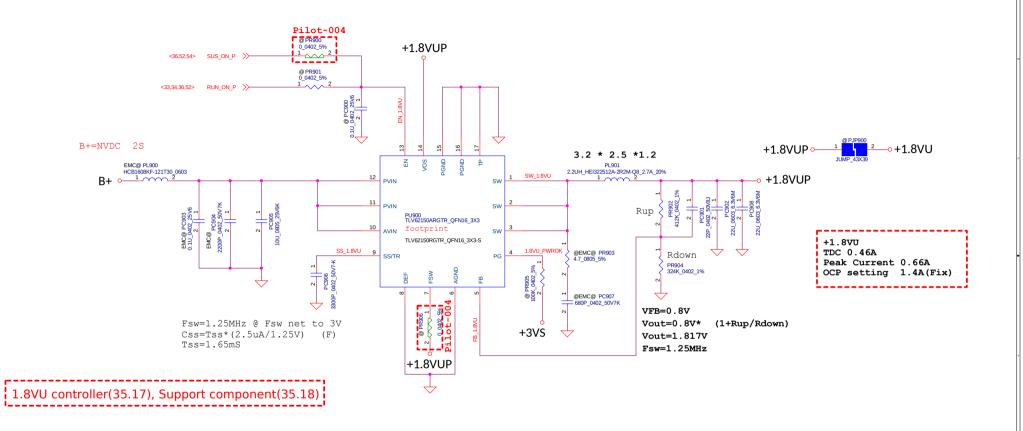








Security Classification	Compal Secret Data				Compal Electronics, Inc.					
Issued Date	2014/10/17	Deciphered Date	2014/12/05	Title	+1.8VS					
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD 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-E671P Tuesday, October 17, 2017	Sheet		R		



Security Classification	Compal Secret Data				Compal Electronics, Inc.						
Issued Date	2014/10/17	Deciphered Date	2014/12/05	Title	DE0 DIVID +4 01/11						
THE CHEET OF ENGINEEDING	THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS. INC. AND CONTAINS CONFIDENTIAL				P52-PWR_+1.8VU						
This Specific personal discounting is the province and provided the configuration of the competent of the co			Size	Document Number					Rev		
				LA-E671P					0.4		
				Date:	Tuesday, October 17, 2017 Si	eet	55	o f	61		

