

Compal Confidential

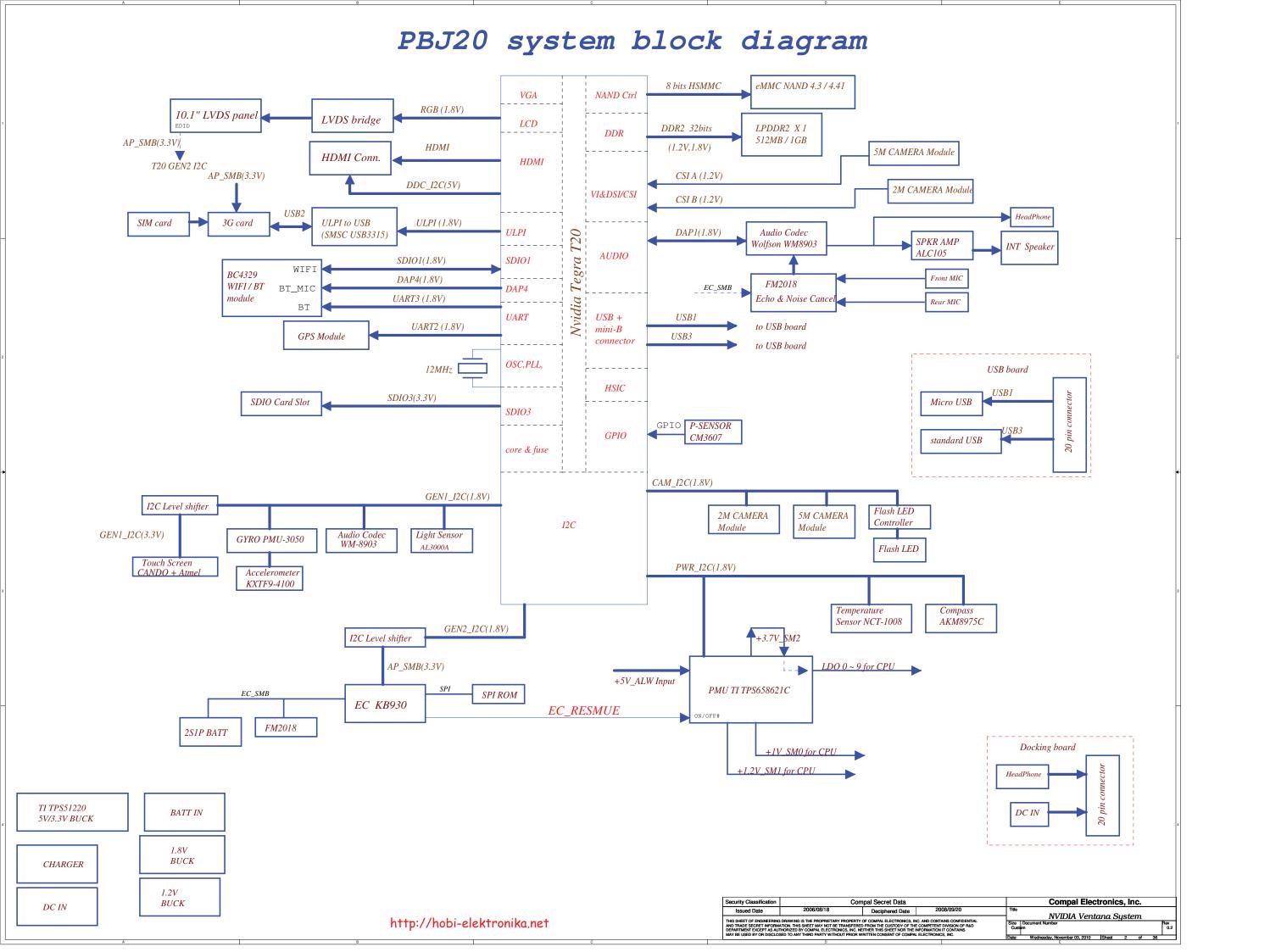
PBJ20 Schematics Document

Nvdia(T20) + LPDDRII

2010-10-07

REV: 0.4

Security Classification	Coi	Compal Secret Data				ctronic	s, Inc	C.		
Issued Date	2011/4/1	Deciphered Date	2008/09/20	Title	Cover	Paga				
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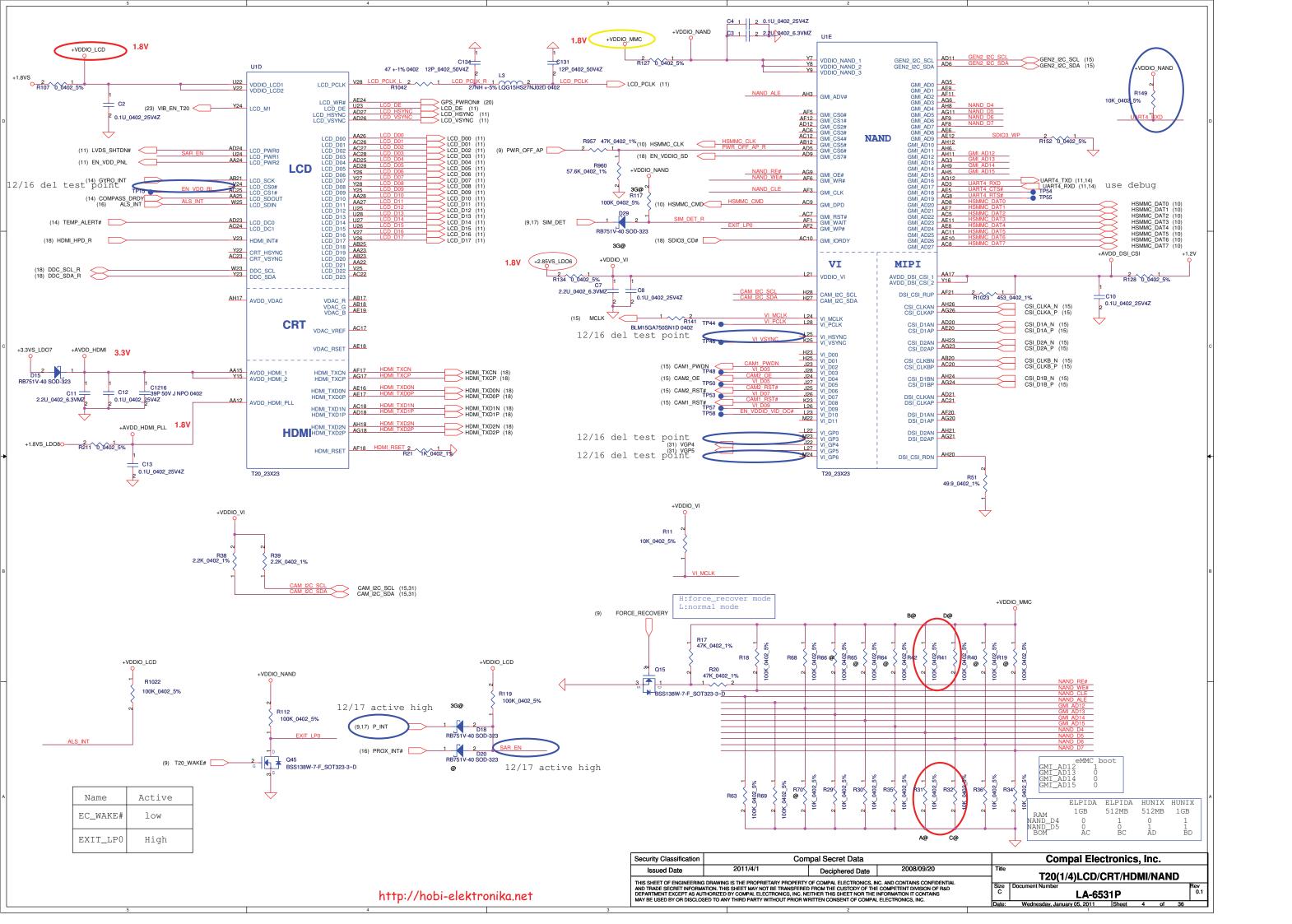


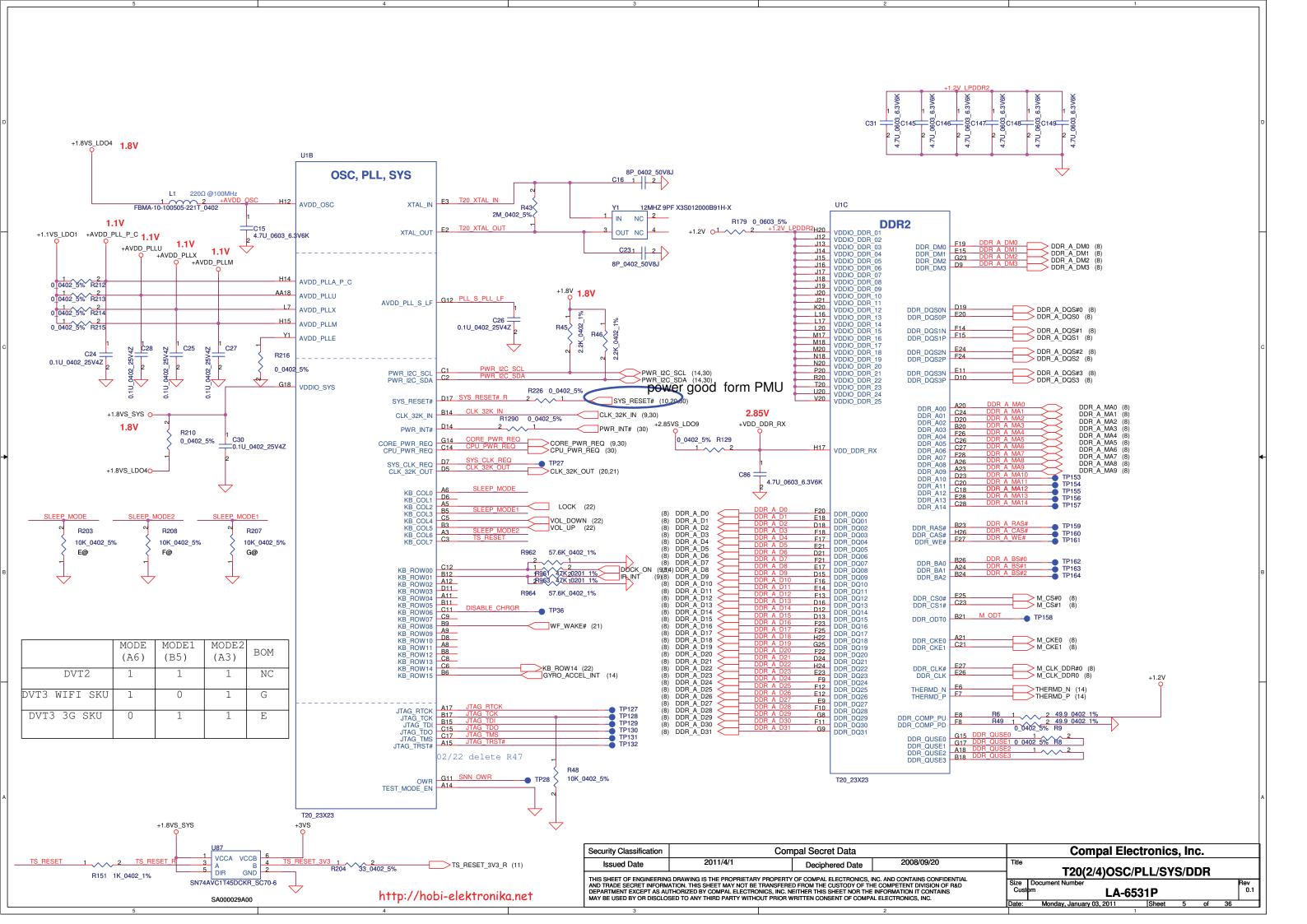
Voltage Rails

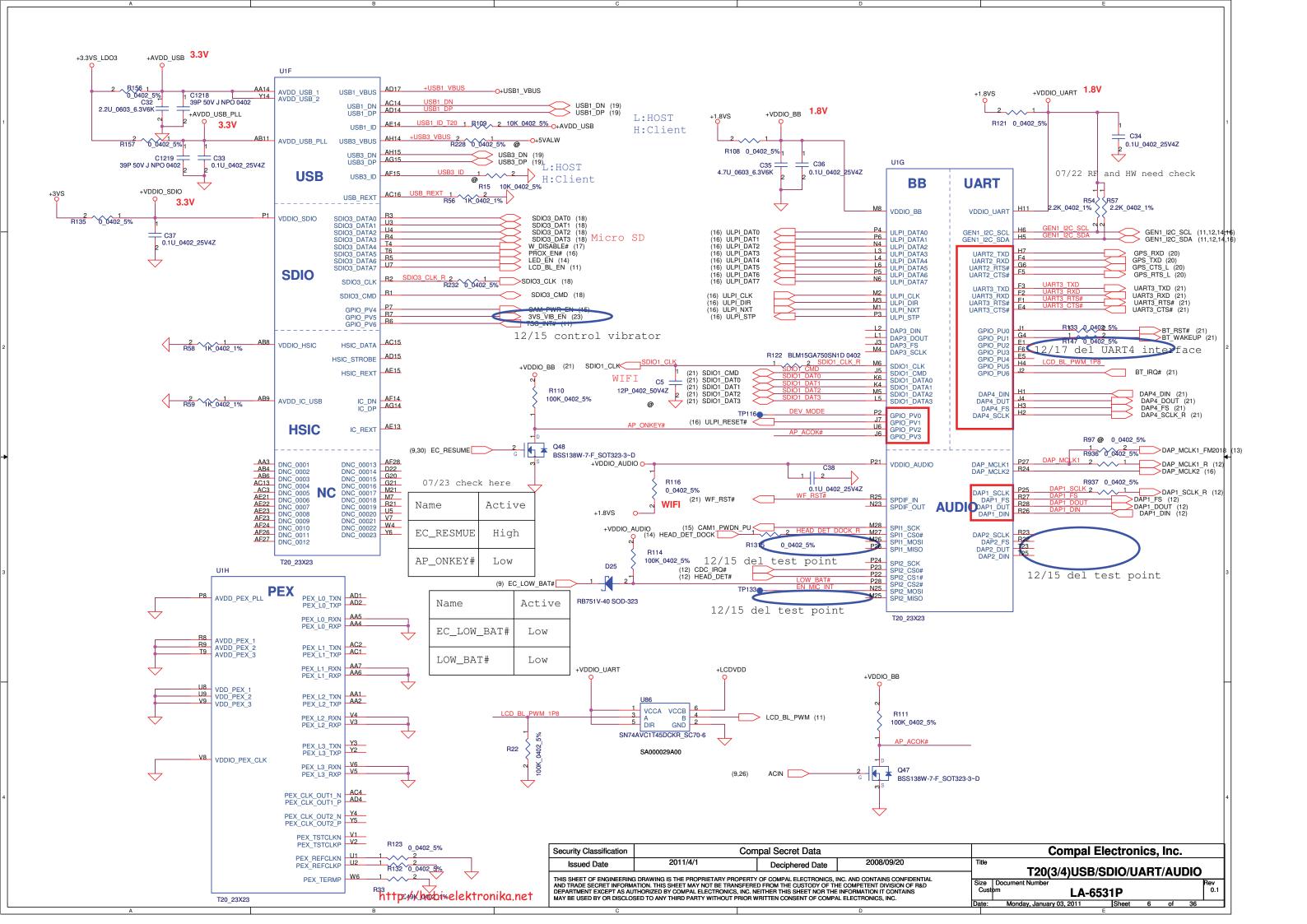
Power Plane	Description	IDLE	Standby
VIN	Adapter power supply (12V)	ON	ON
B+	AC or battery power rail for power circuit.	ON	ON
+1.2VS_SM0	Core voltage for CPU	ON	ON
+1.0VS_SM1	CPU voltage for CPU	ON	OFF
+1.1VS_LDO1	AVDD_PLL power rail	ON	OFF
+1.2VS_LDO2	T20 RTC power rail	ON	OFF
+1.8VS_LDO4	T20 system power rail	ON	ON
+3.3VS_LDO3	T20 USB power rail	ON	OFF
+2.85VS_LDO5	Core voltage for EMMC	ON	OFF
+2.85VS_LDO6	Core voltage for CAMERA	ON	OFF
+3.3VS_LDO7	T20 HDMI power rail	ON	OFF
+1.8VS_LDO8	T20 HDMI PLL power rail	ON	OFF
+2.85VS_LDO9	T20 DDR RX power rail	ON	ON
+3VALW	3.3V always on power rail	ON	ON
+3VS	3.3V switched power rail for standby mode	ON	OFF
+5VALW	5V always on power rail	ON	ON
+1.8V	1.8V always on power rail	ON	ON
+1.8VS	1.8V switched power rail for standby mode	ON	OFF
+3.3VS_RTC	RTC power	ON	ON

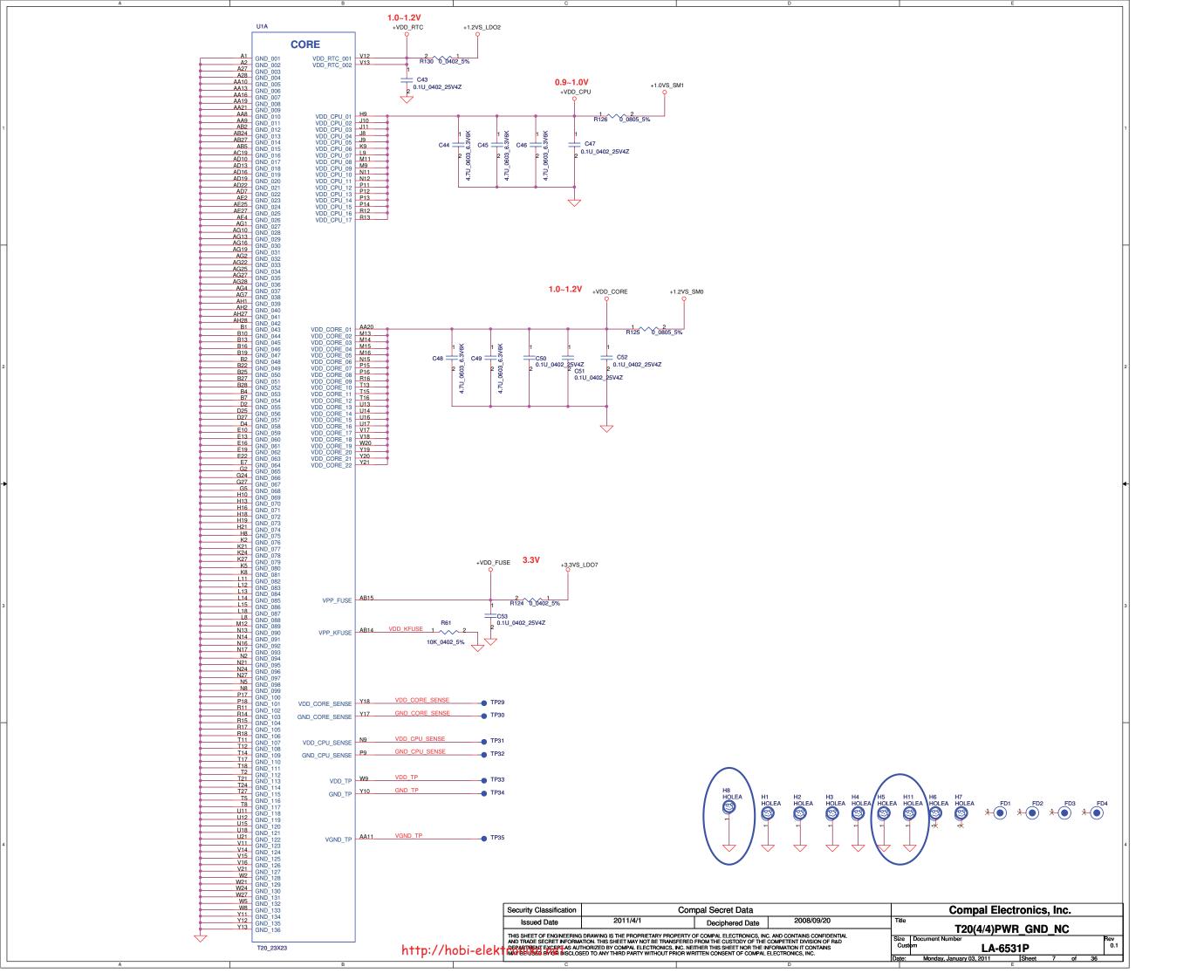
STATE SIGNAL	EC_SYS_STANDBY#	EN_VDD_+1.8VS_S3	EN_VDD_3V3	EN_VDD_1V8
Full ON	High	High	High	High
Standby	High	High	High	High

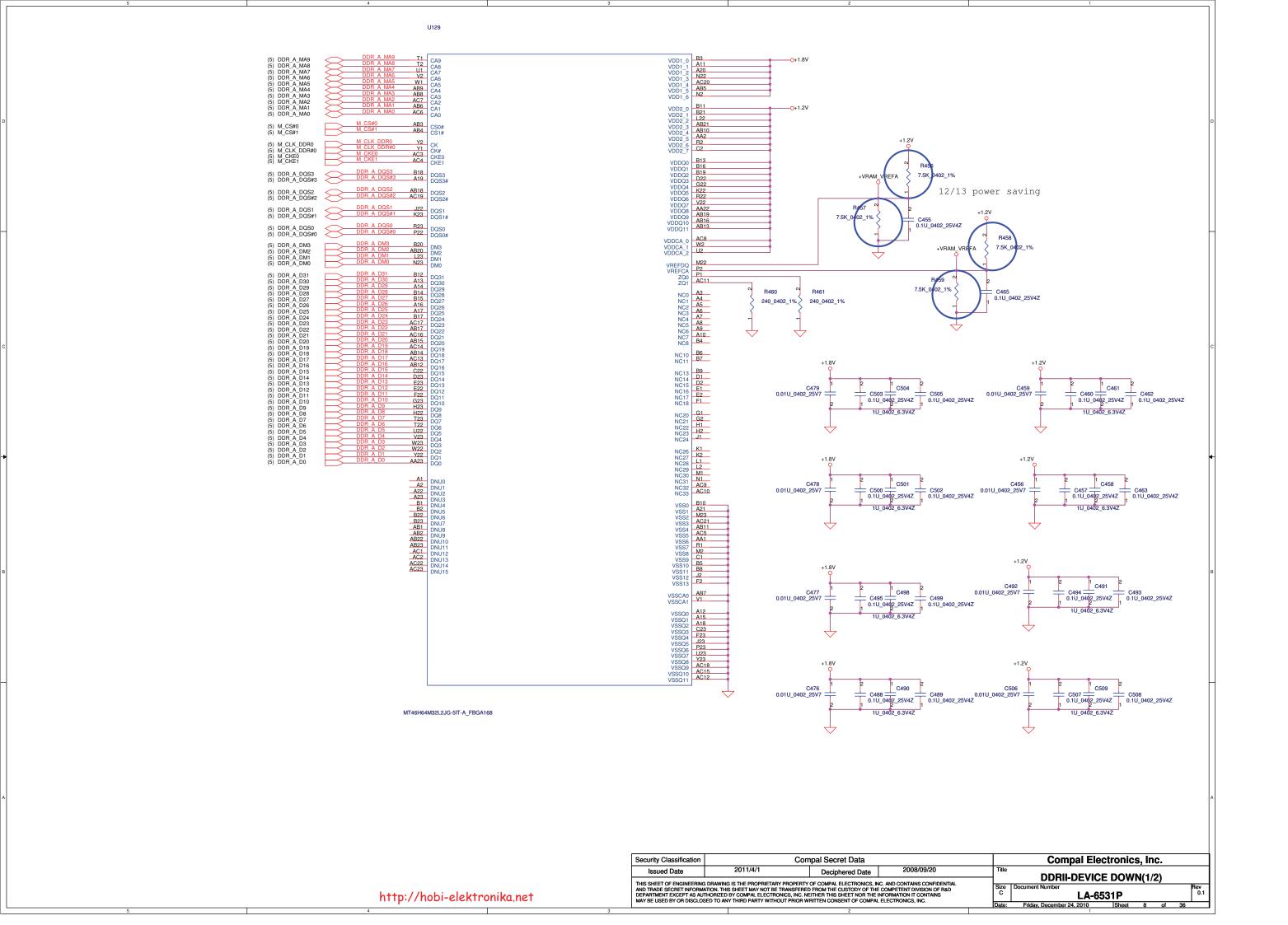
PWR_I2C addres	SS	CAM_I2C ad	ddress
Device PMU E-Compass	Address 0110 100X b	Device CAMERA 5M CAMERA 1.3M	Address 0110 110X b 1001 000X b
Temperature sensor	1001 100X b	LED FLASH	
GEN1_I2C		TS_I2C	
Device	Address	Device	Address
Audio Codec	1001 010xb	Touch Panel	0100 110xb
Light sensor	0100 010xb		
Gyro	1101 000xb		
GEN2_I2C		AP_SMB	
Device	Address	Device	Address
		PANEL EDID	
		3G Card	
		EC	
EC_SMB		AP_SMB	
Device	Address	Device	Address
Echo Cancellation	1011 111xb	G-sensor	0000 1111 b
BATT			
DDC_I2C			
Device	Address		
HDMI EDID	1010 000xb		

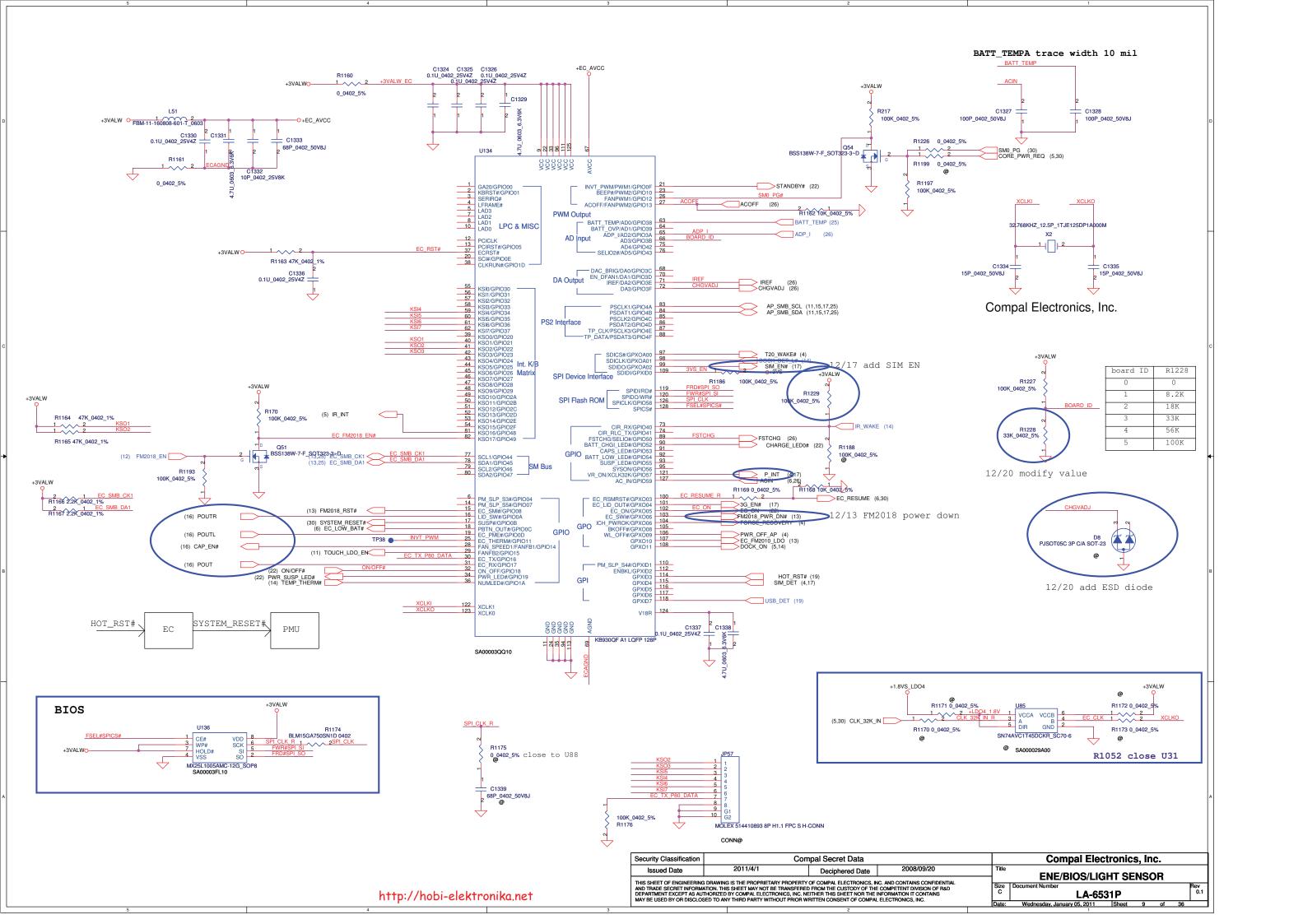


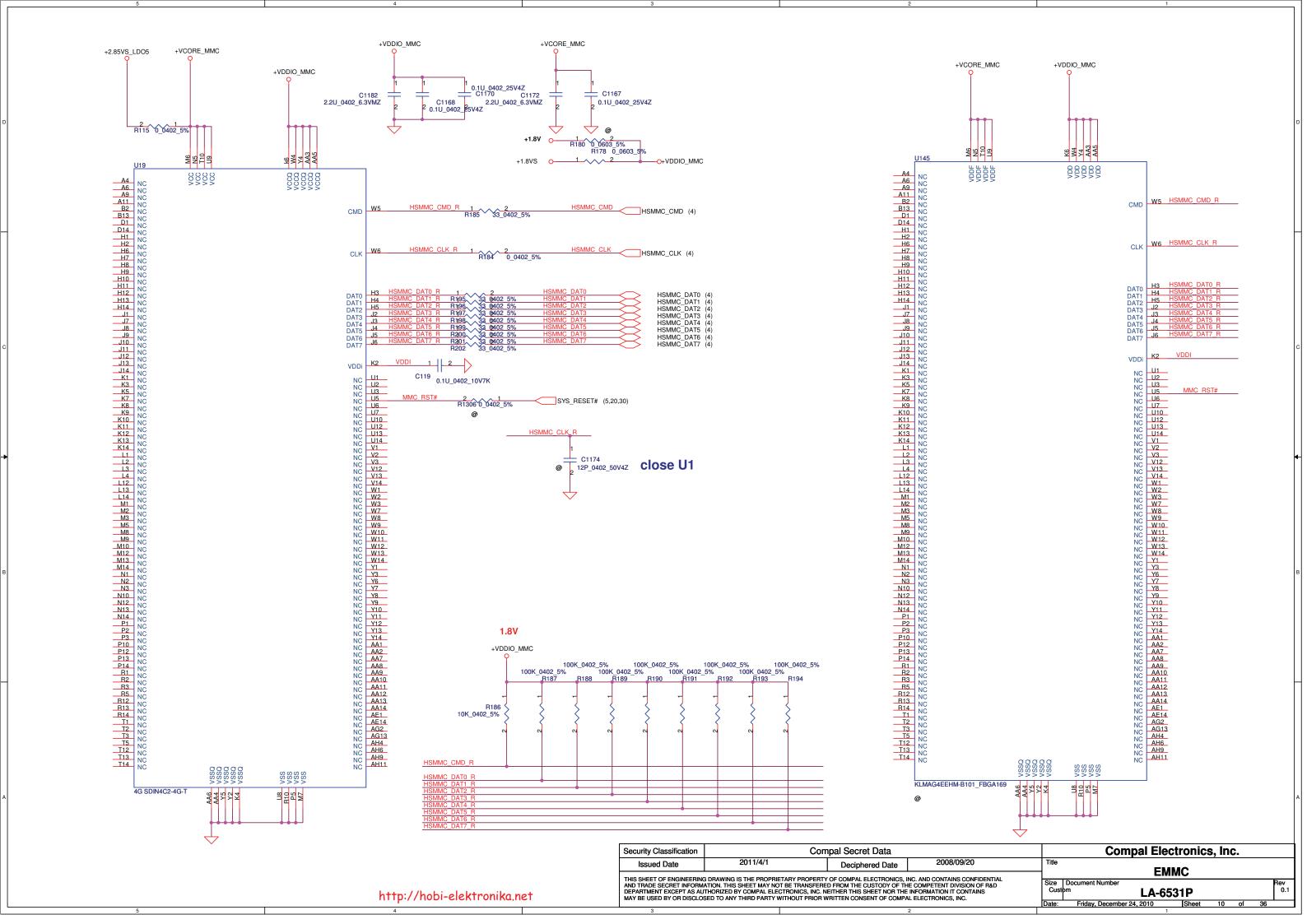


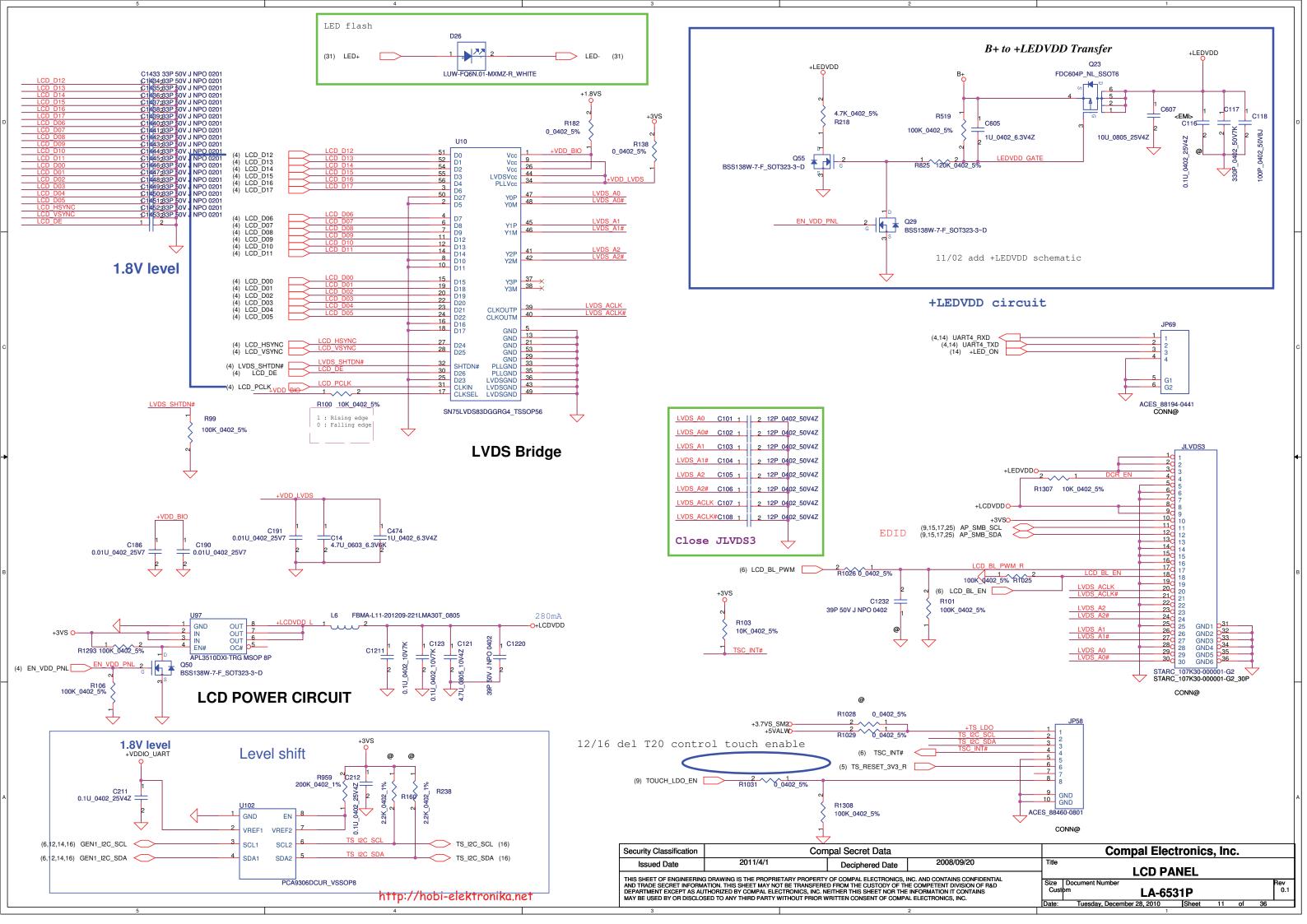


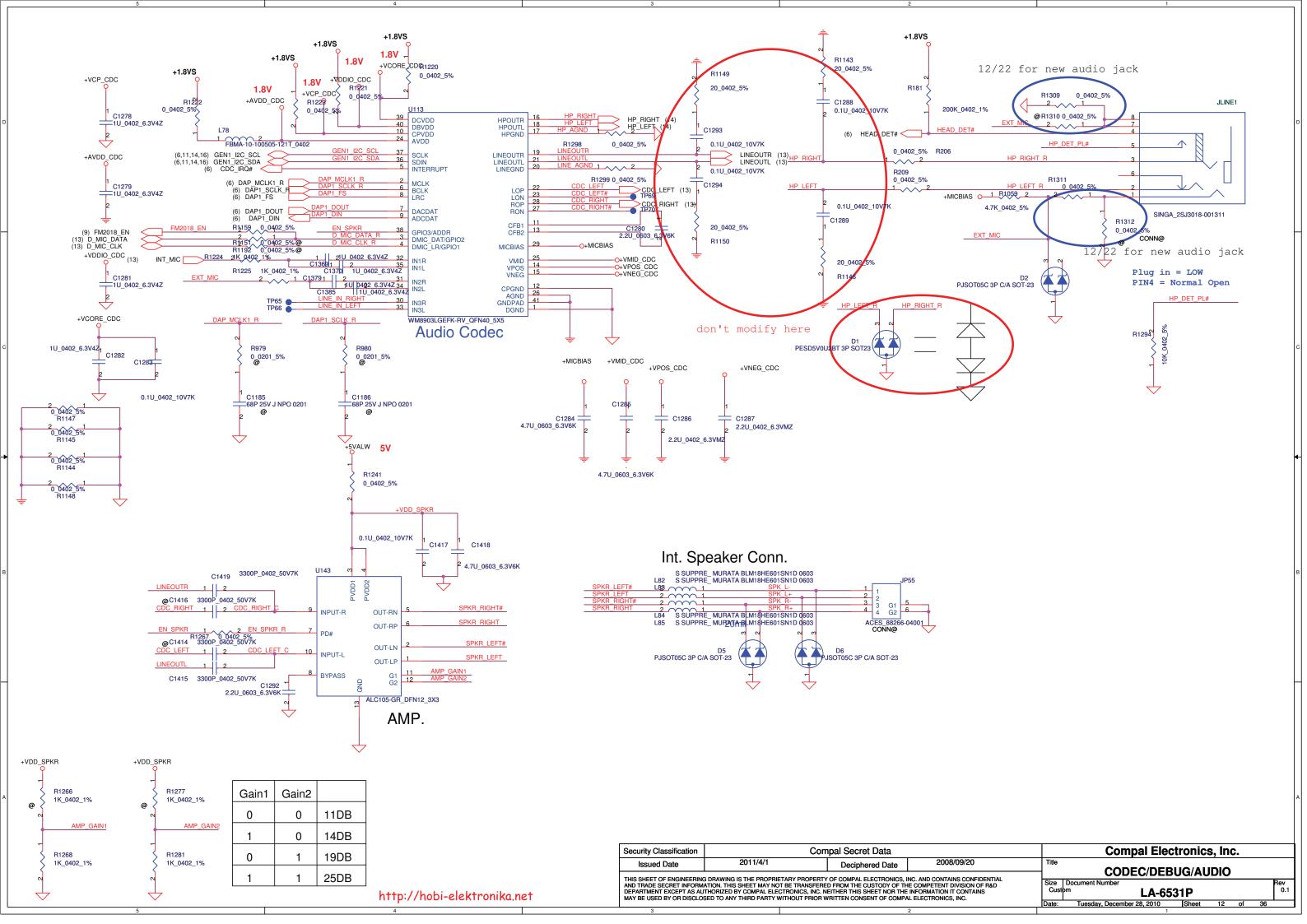


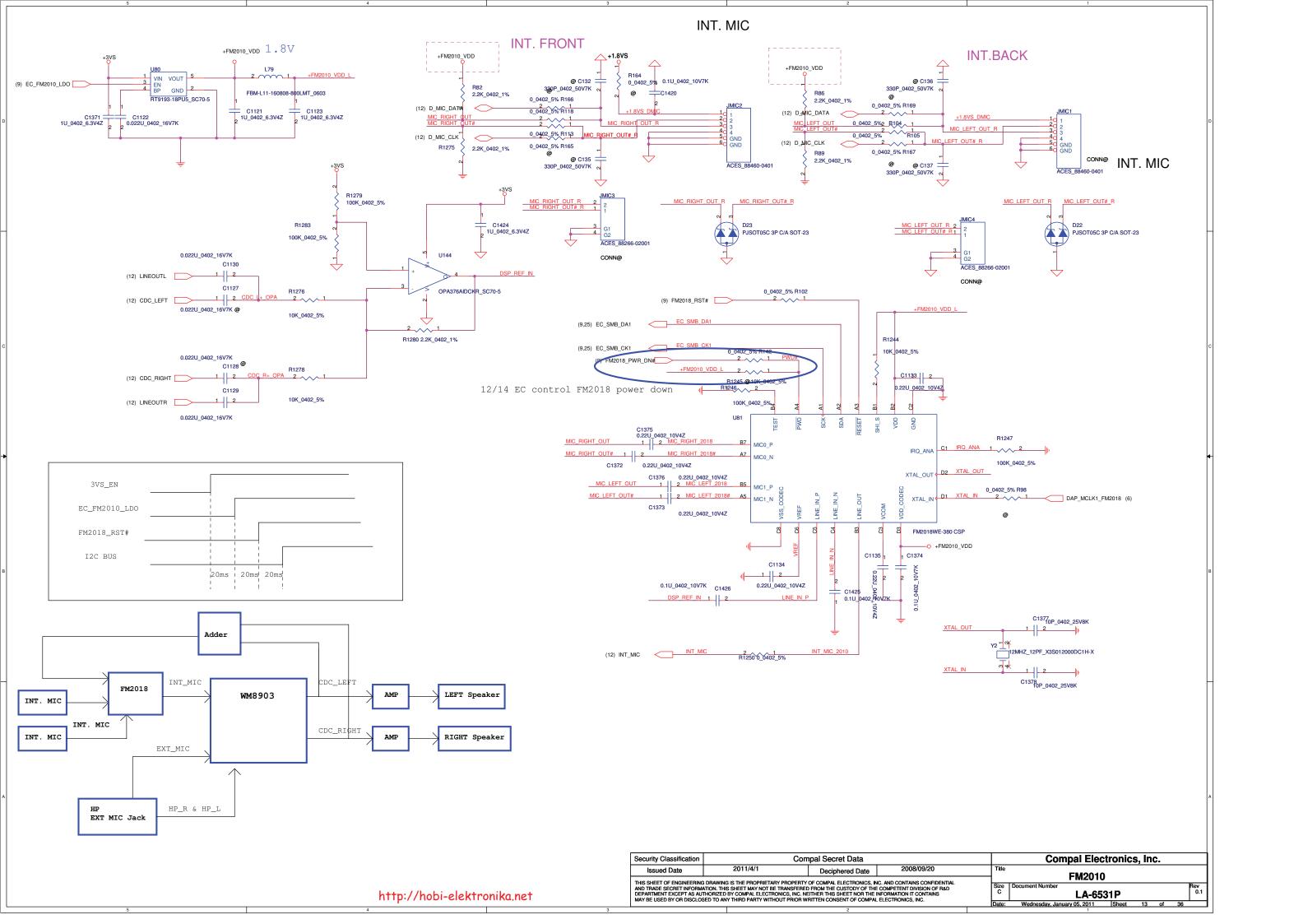


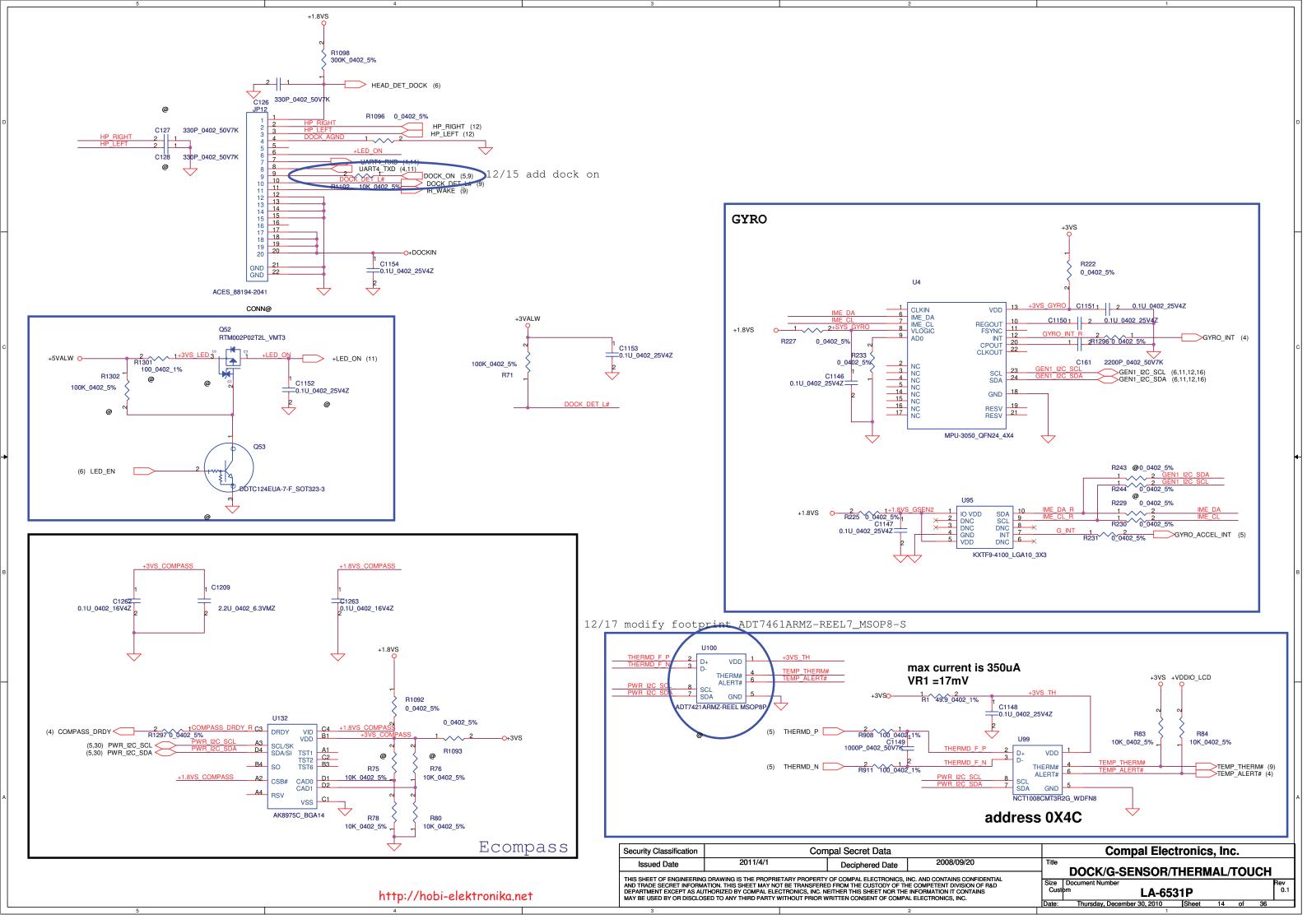


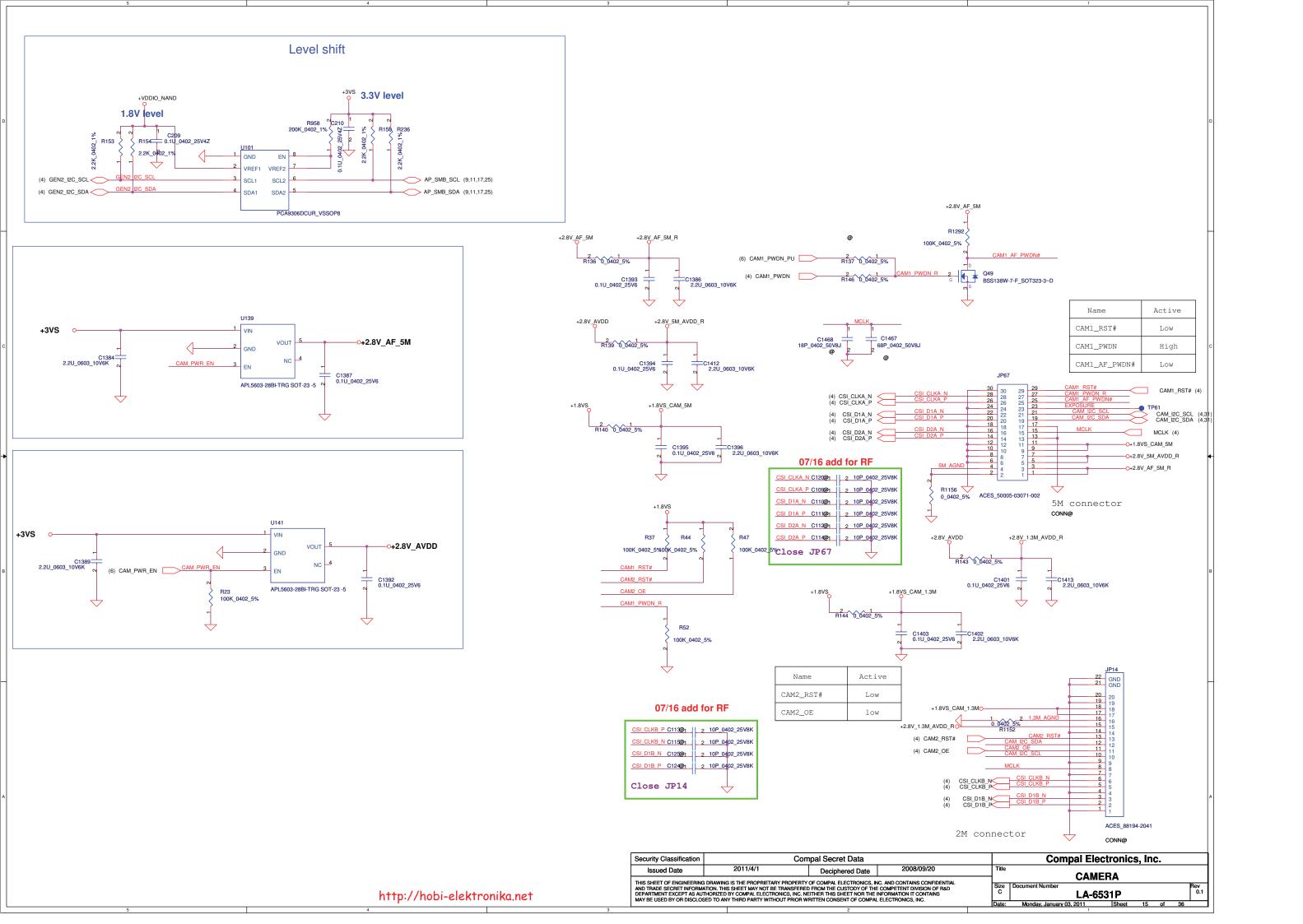


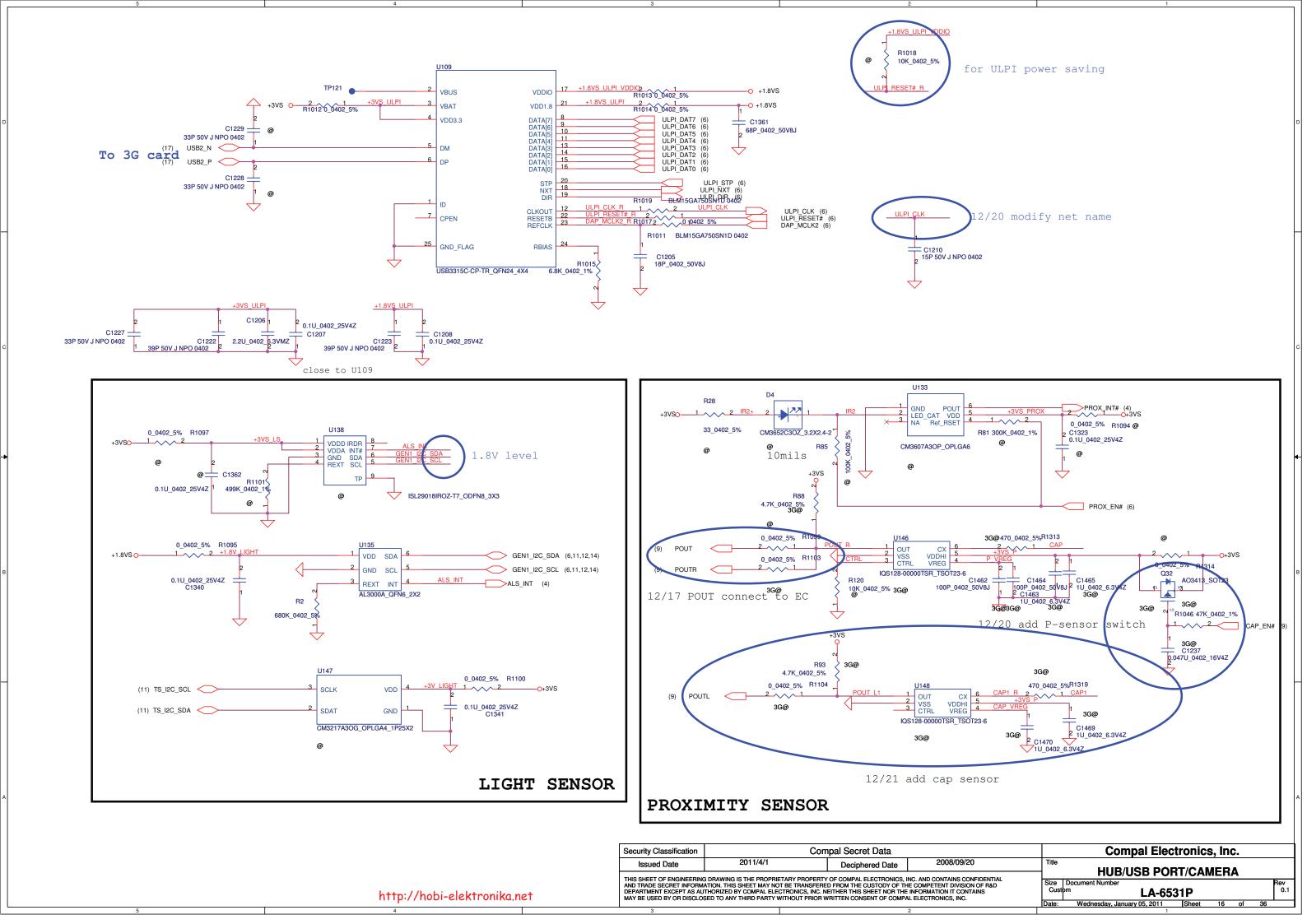


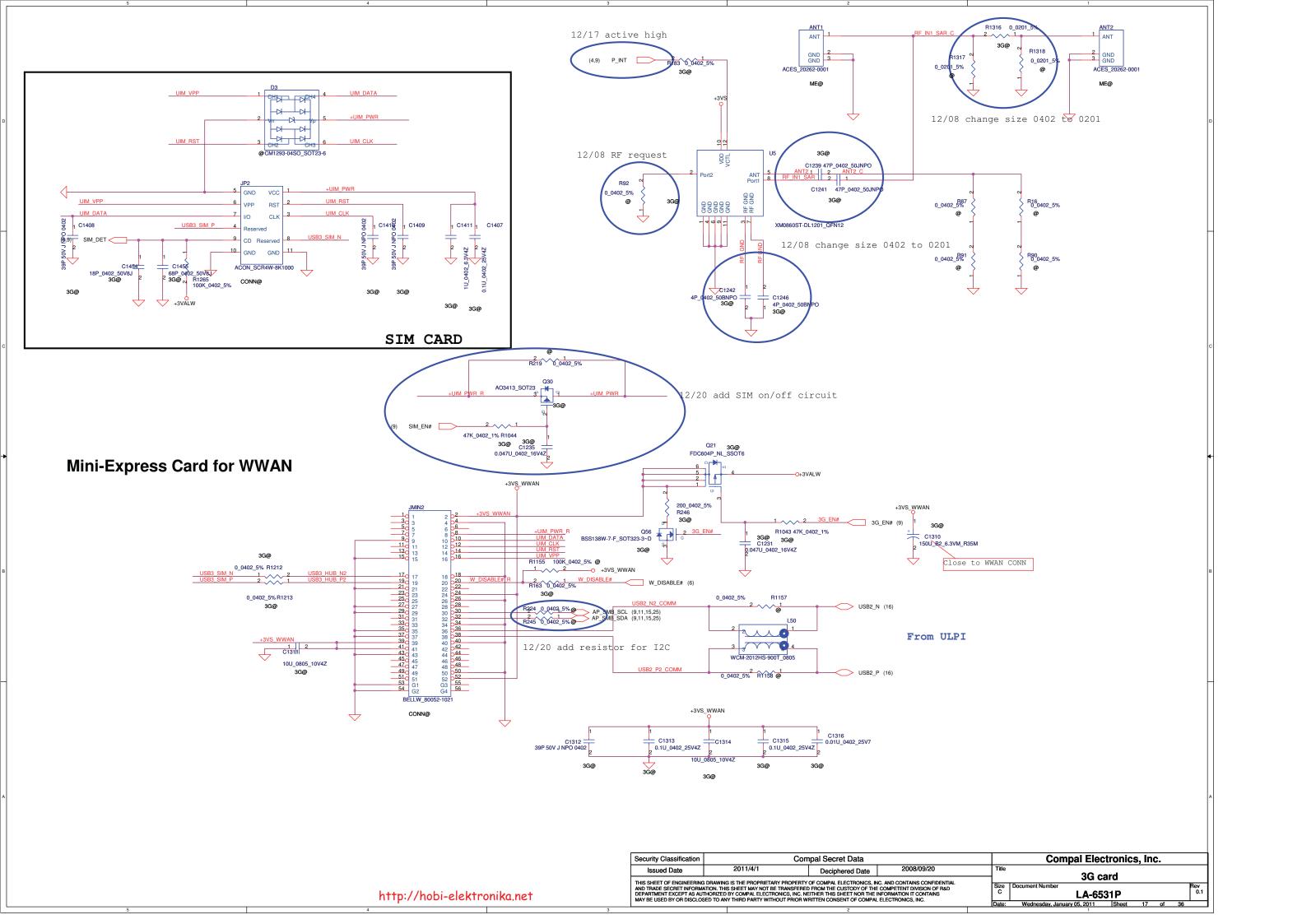


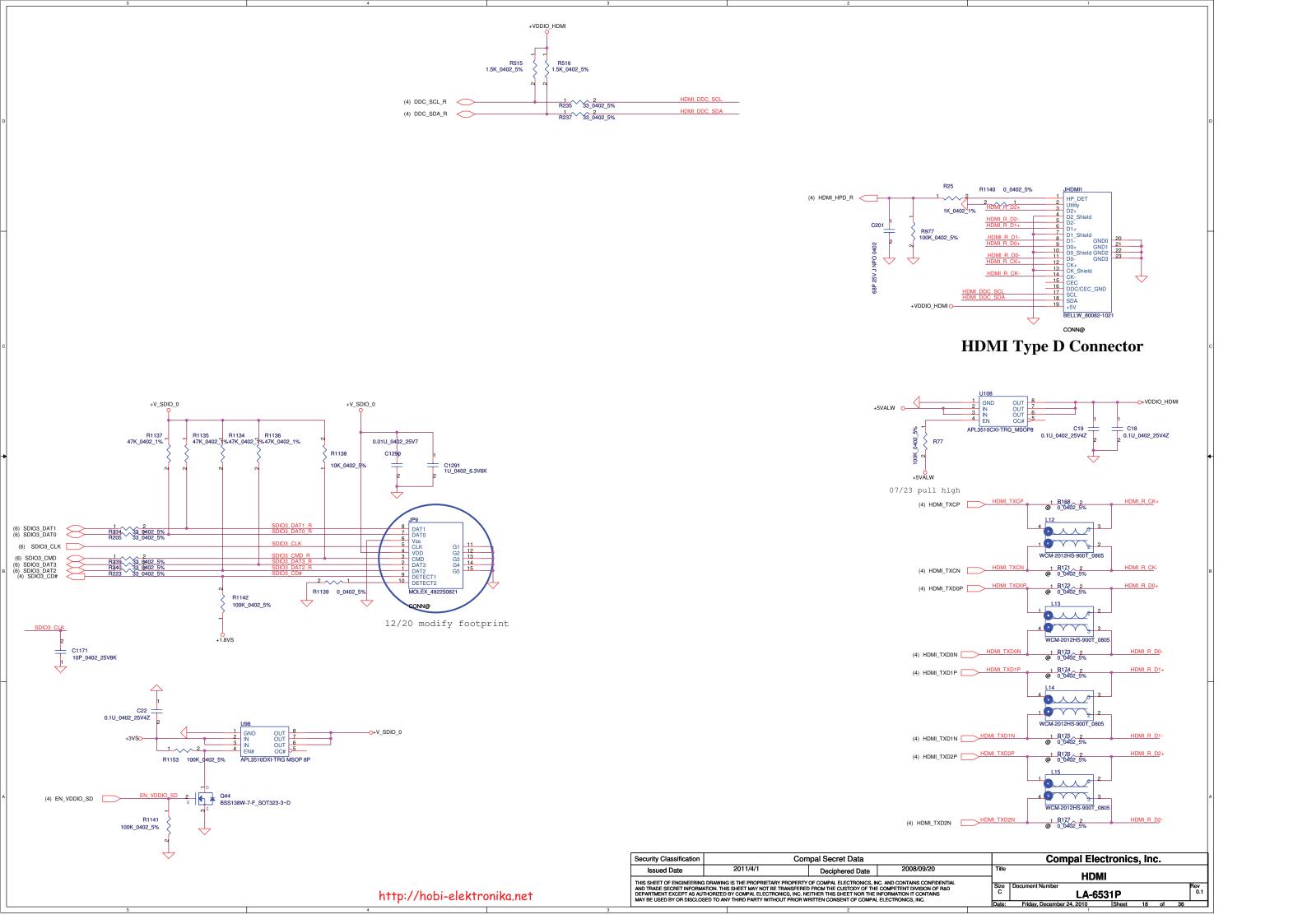


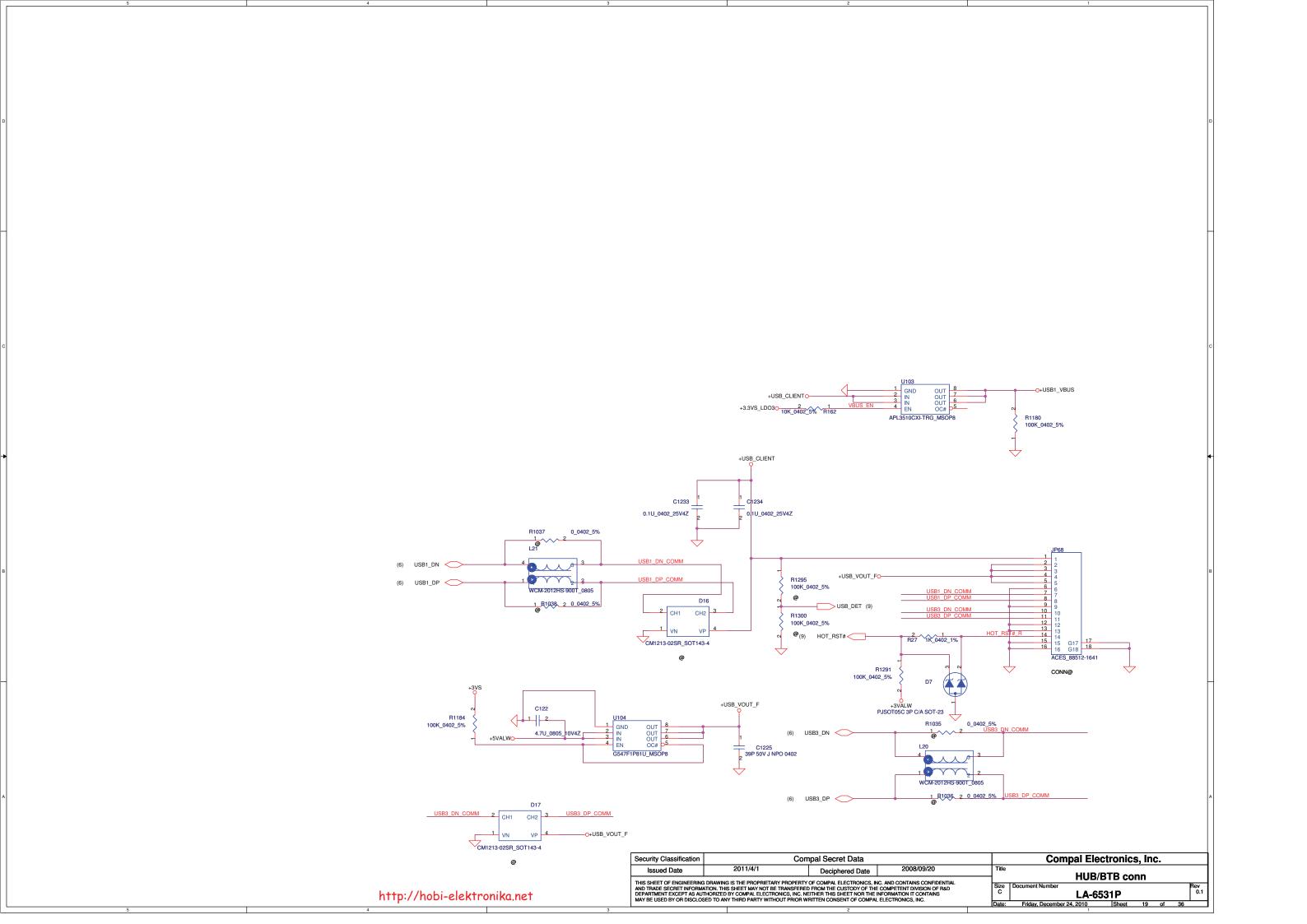


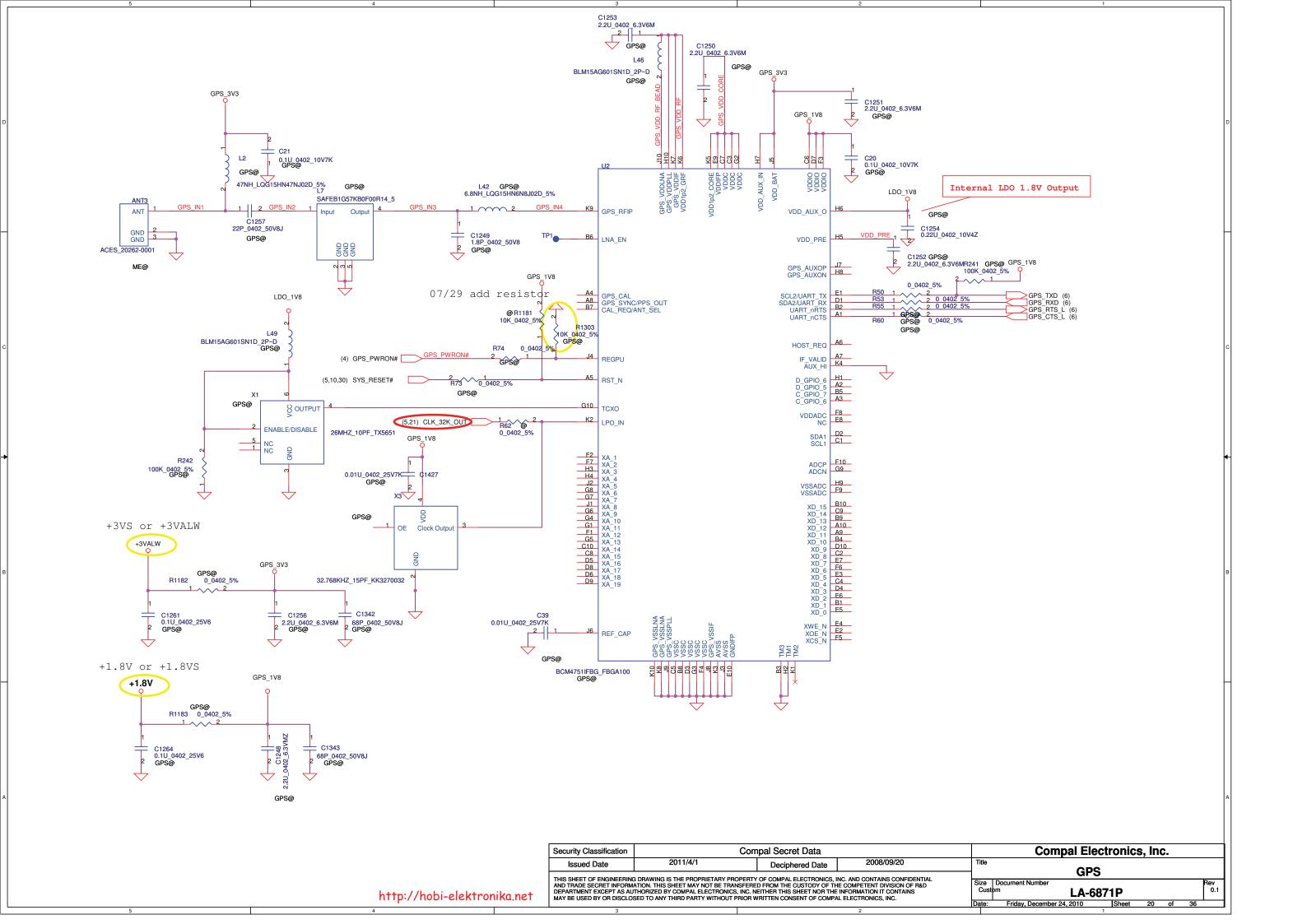


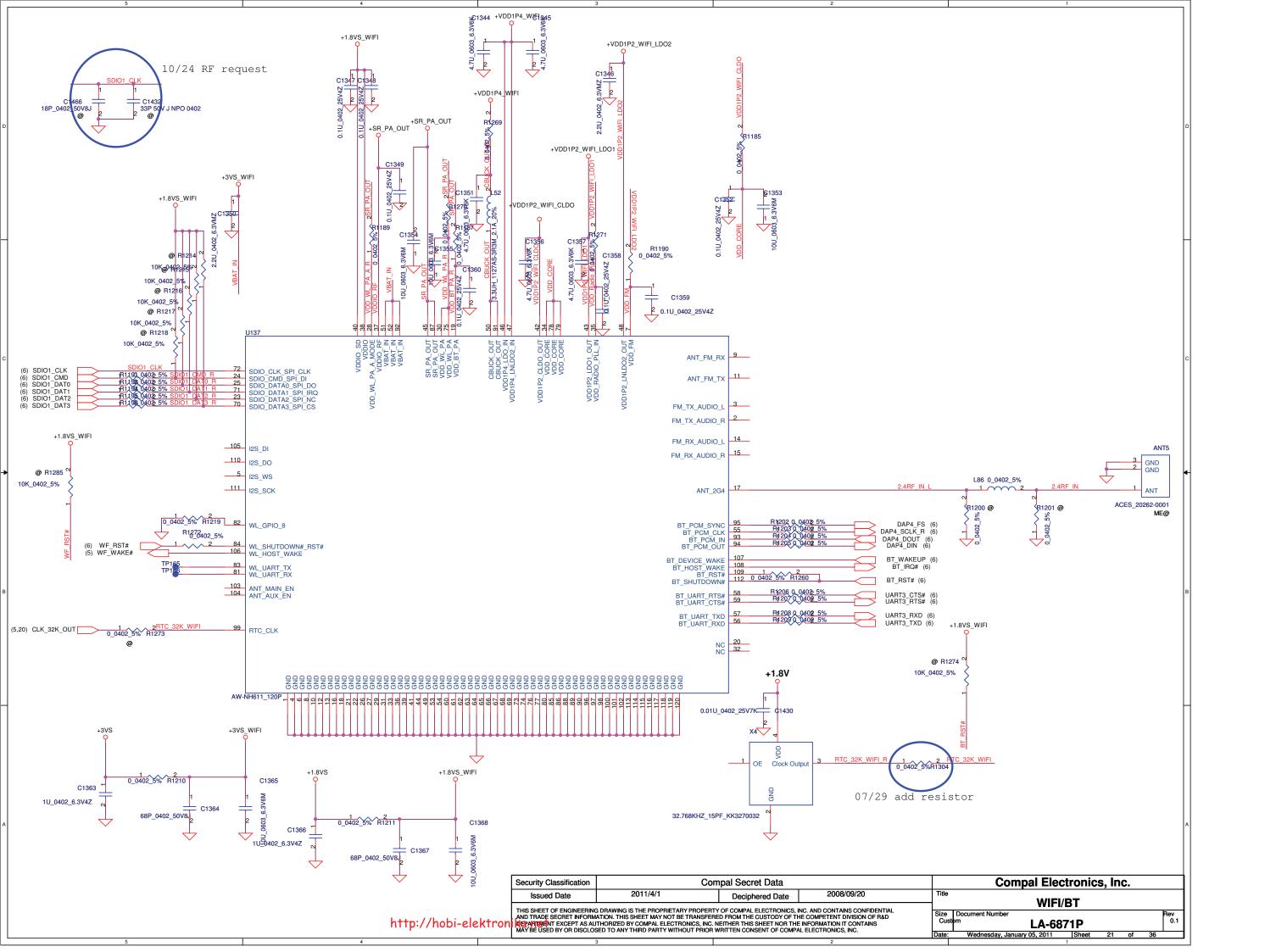


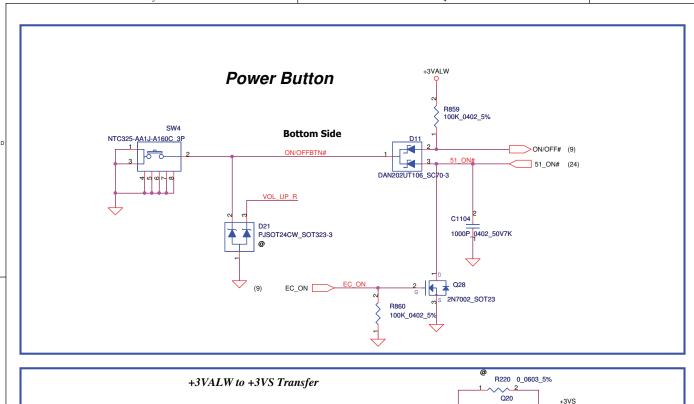


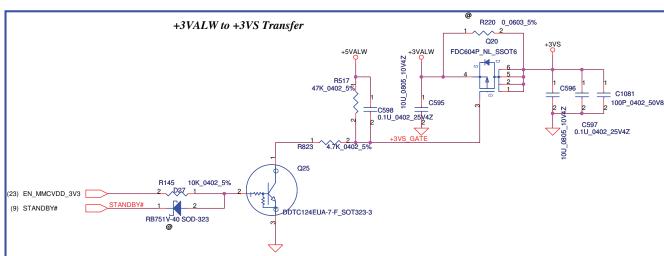


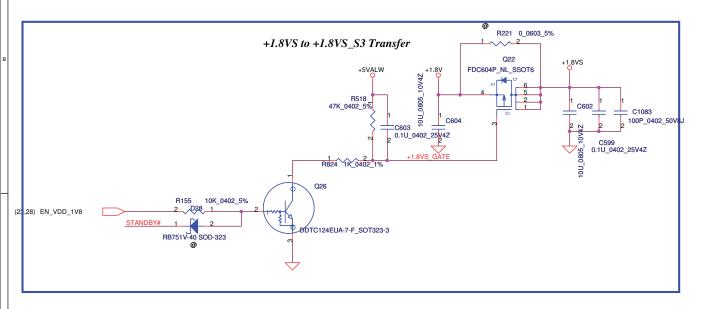


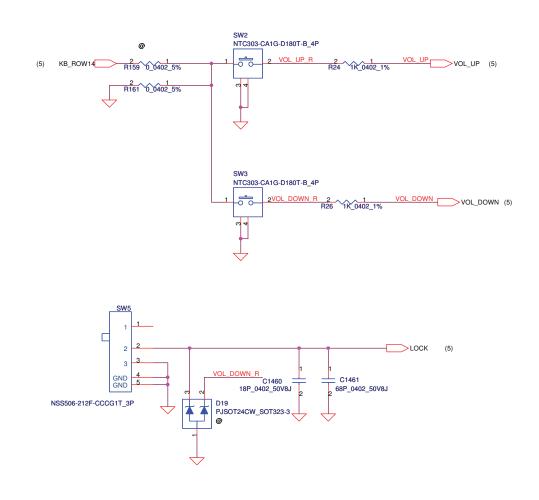


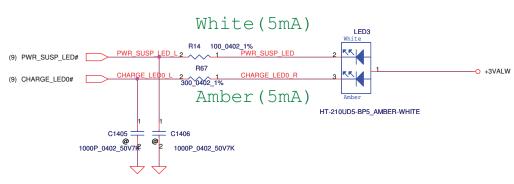




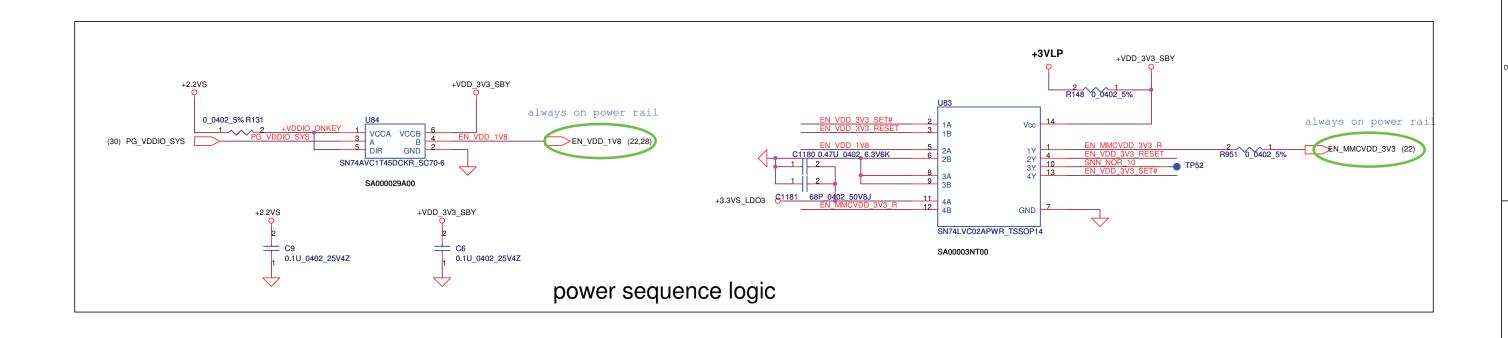


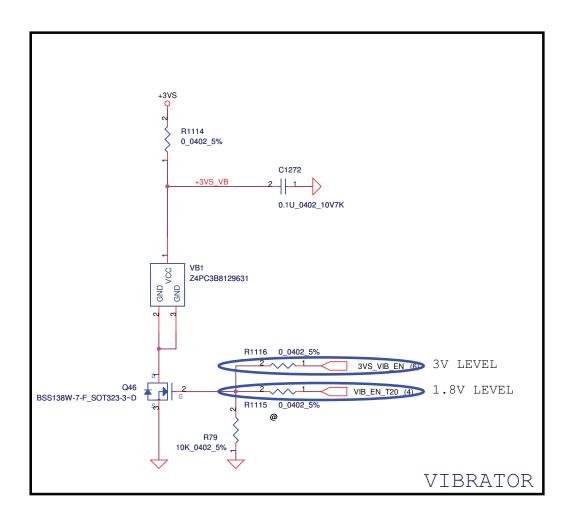


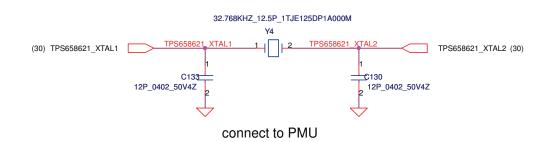




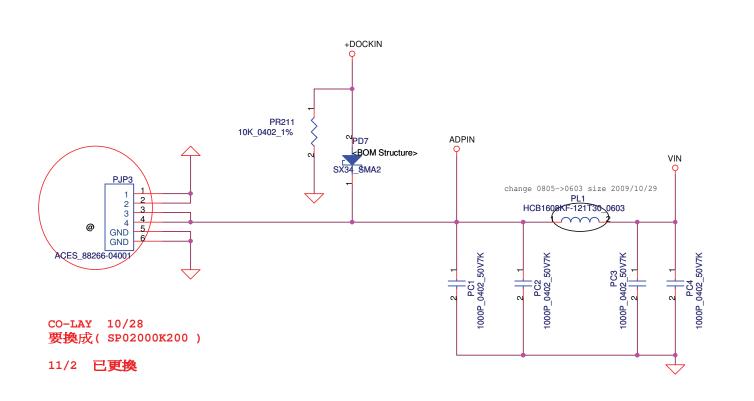
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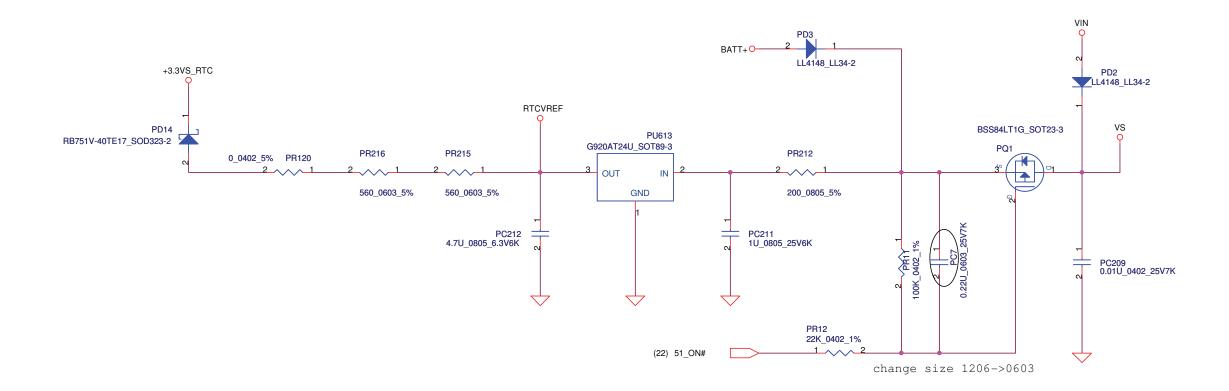






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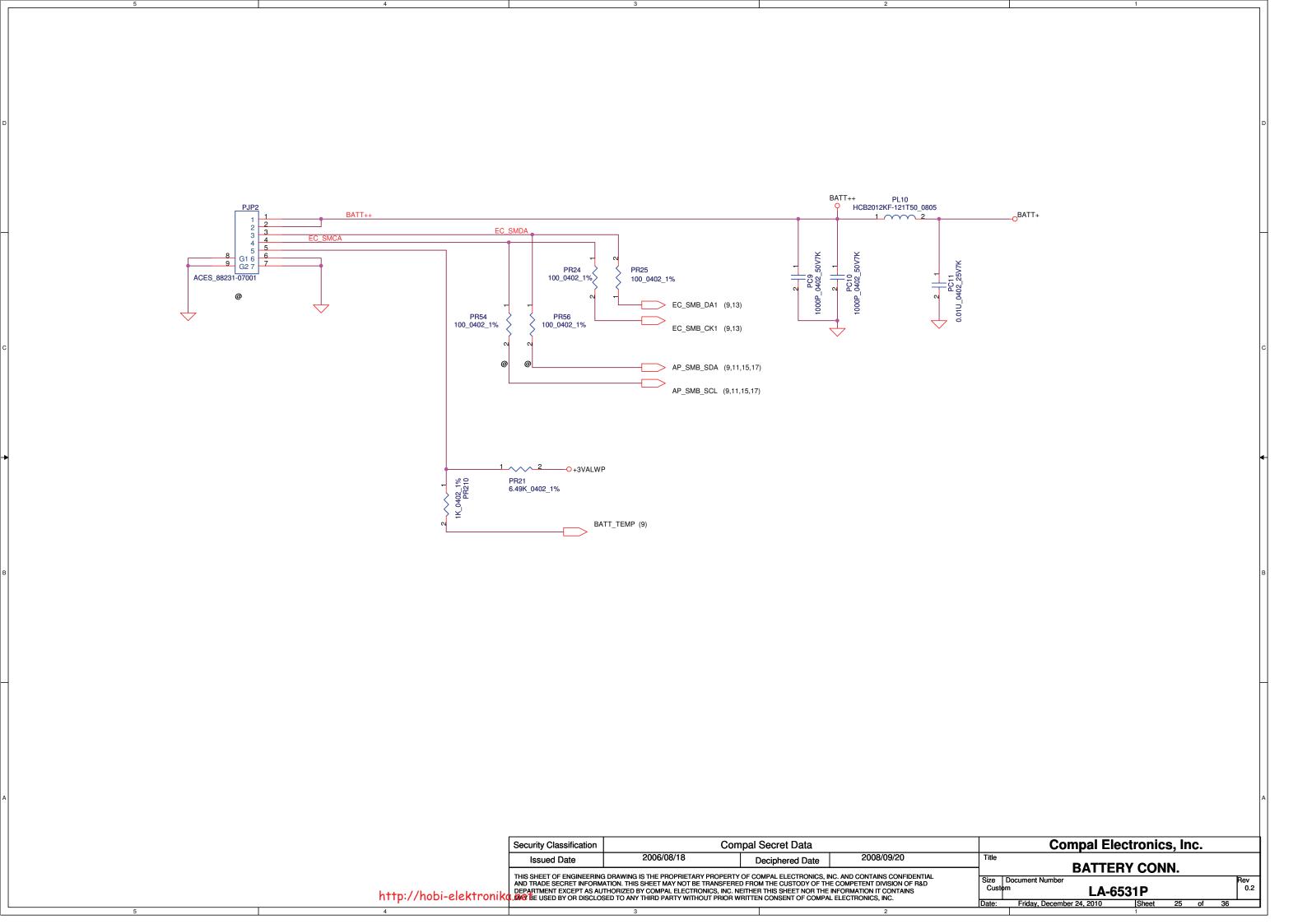


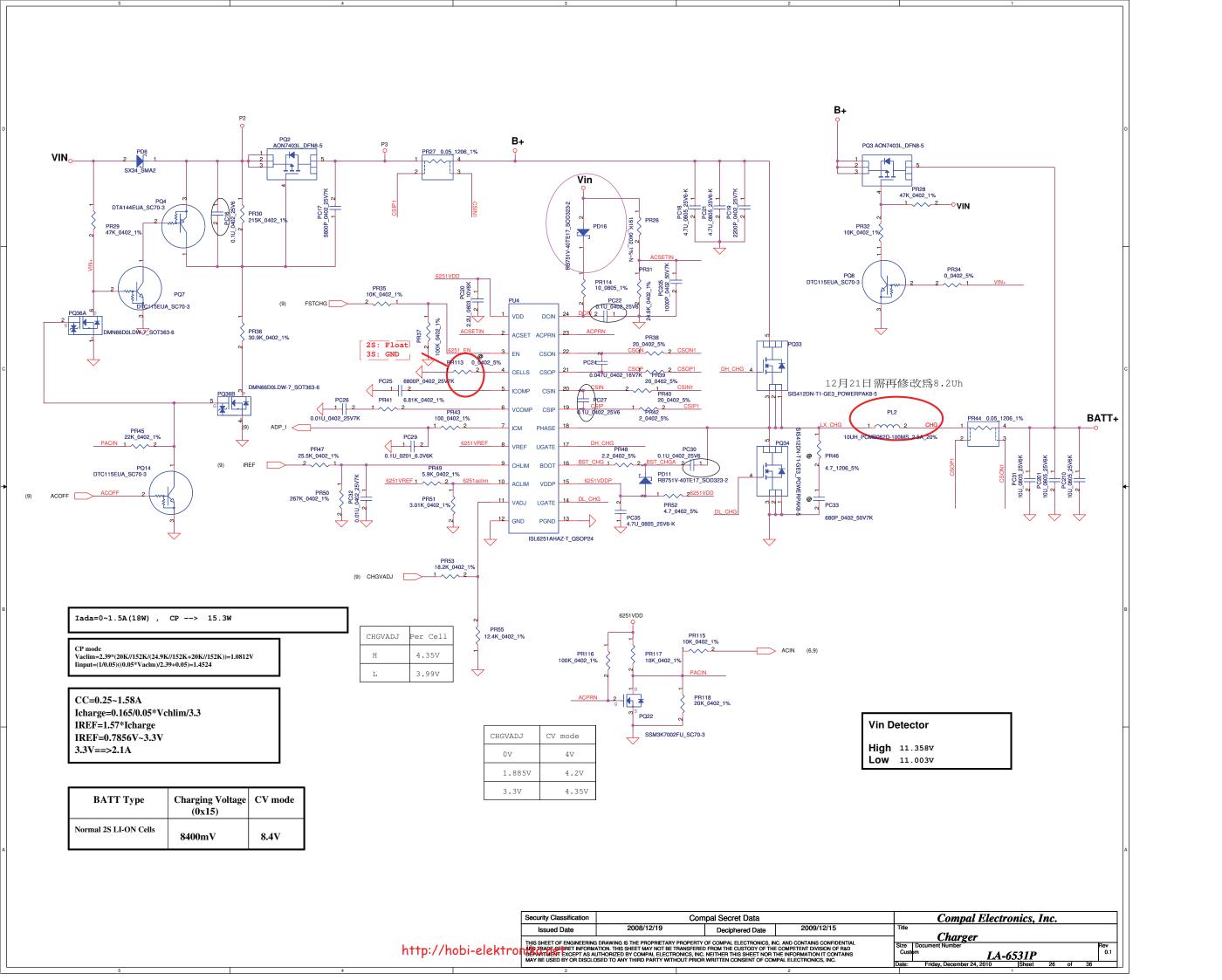


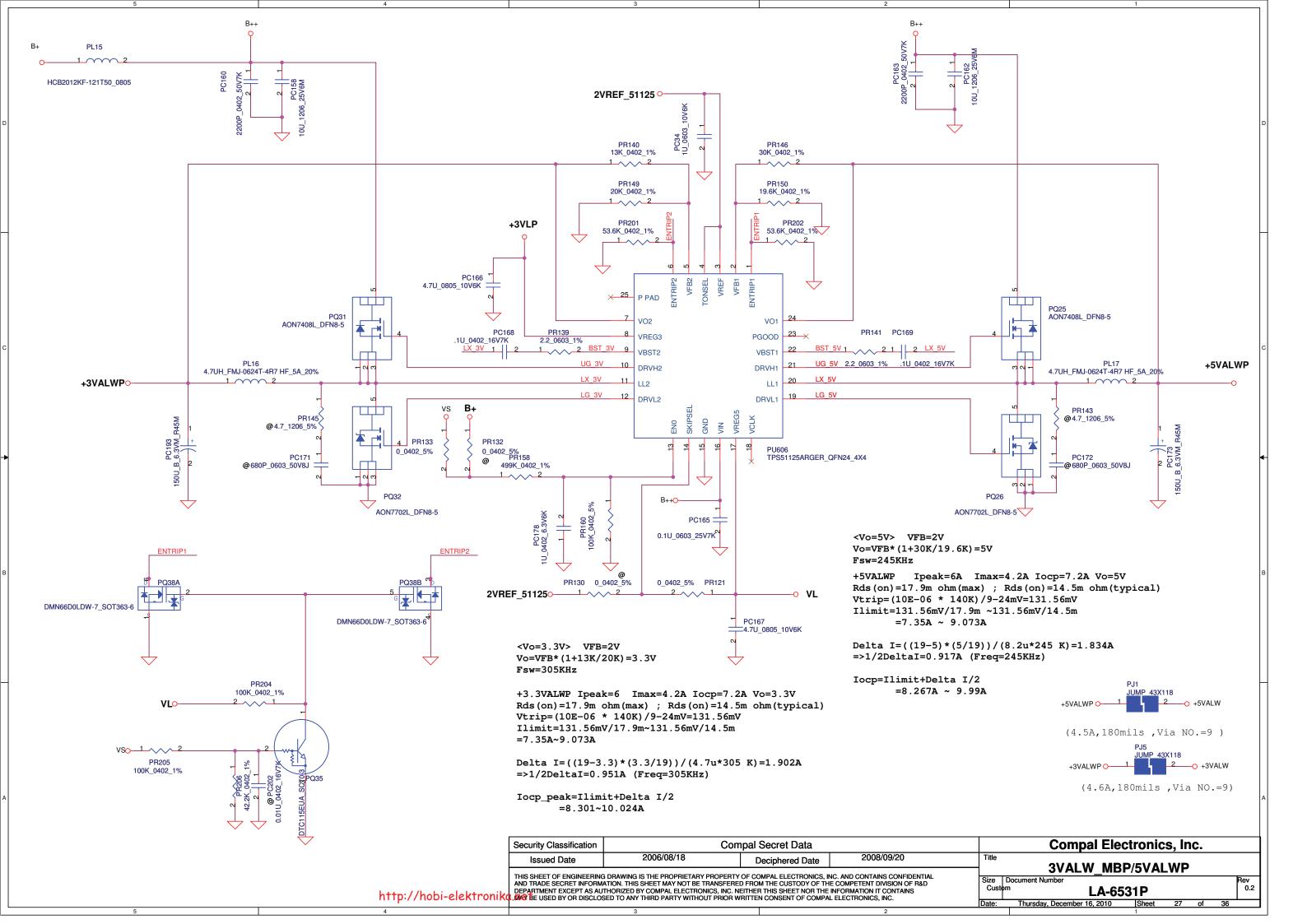
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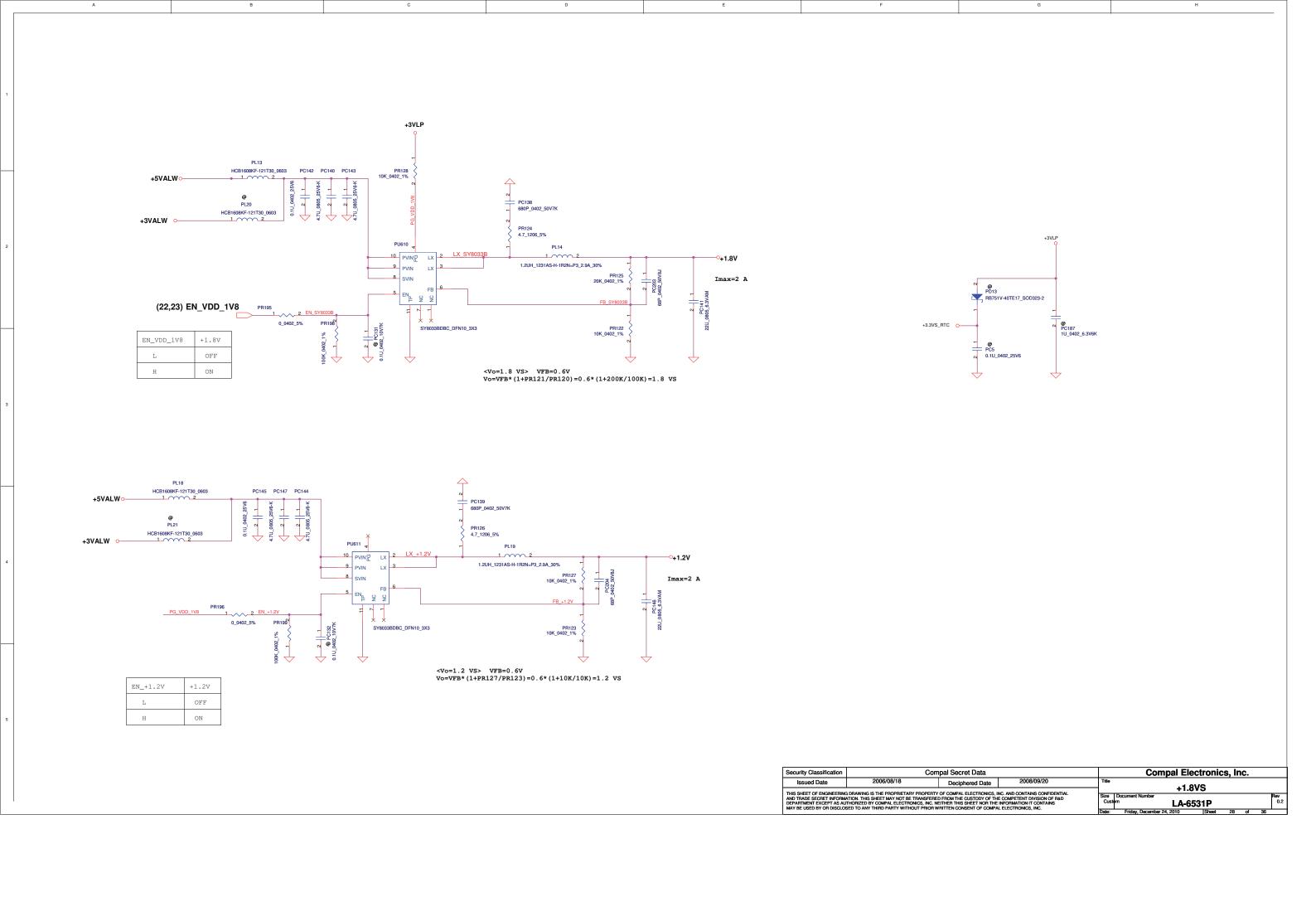
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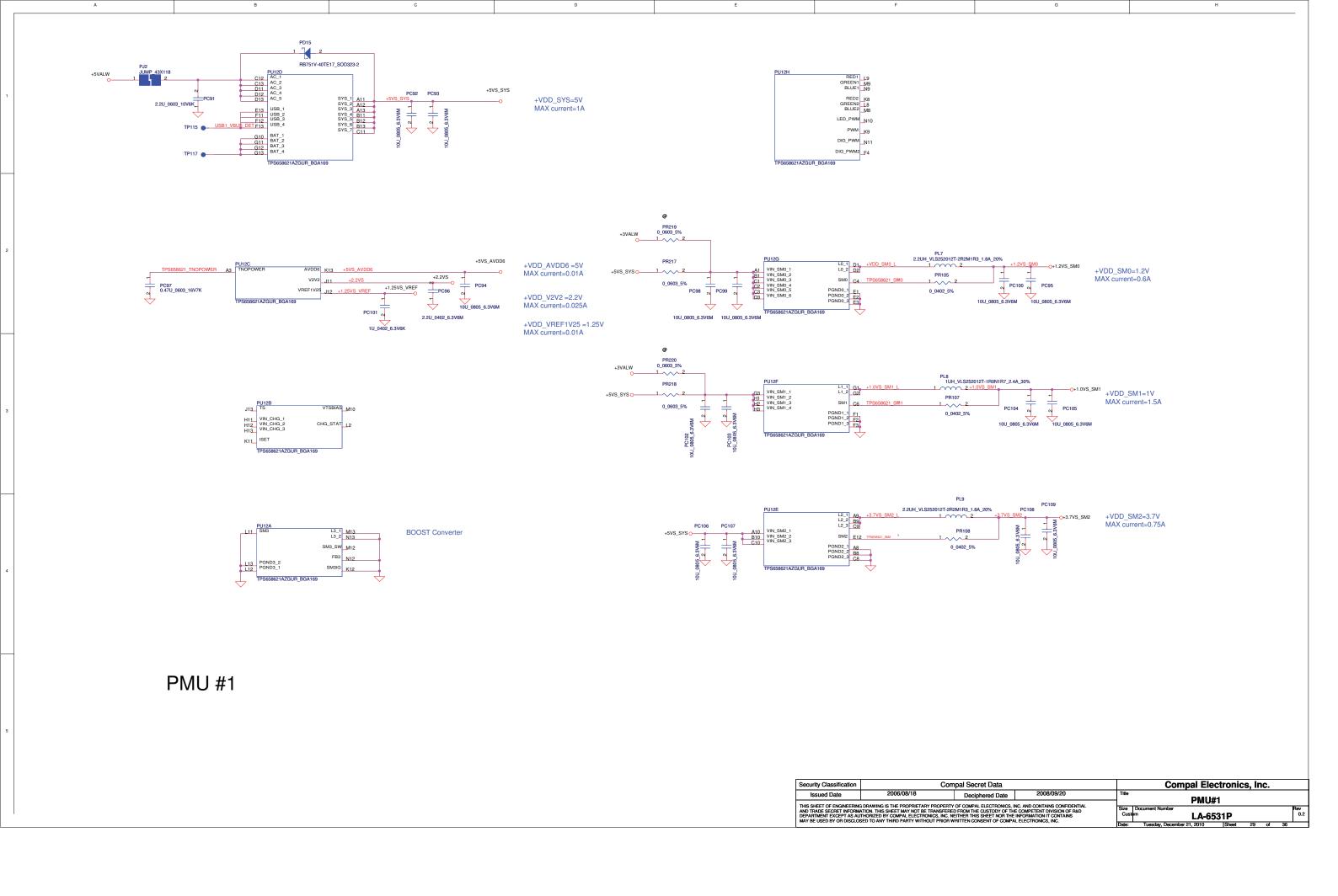
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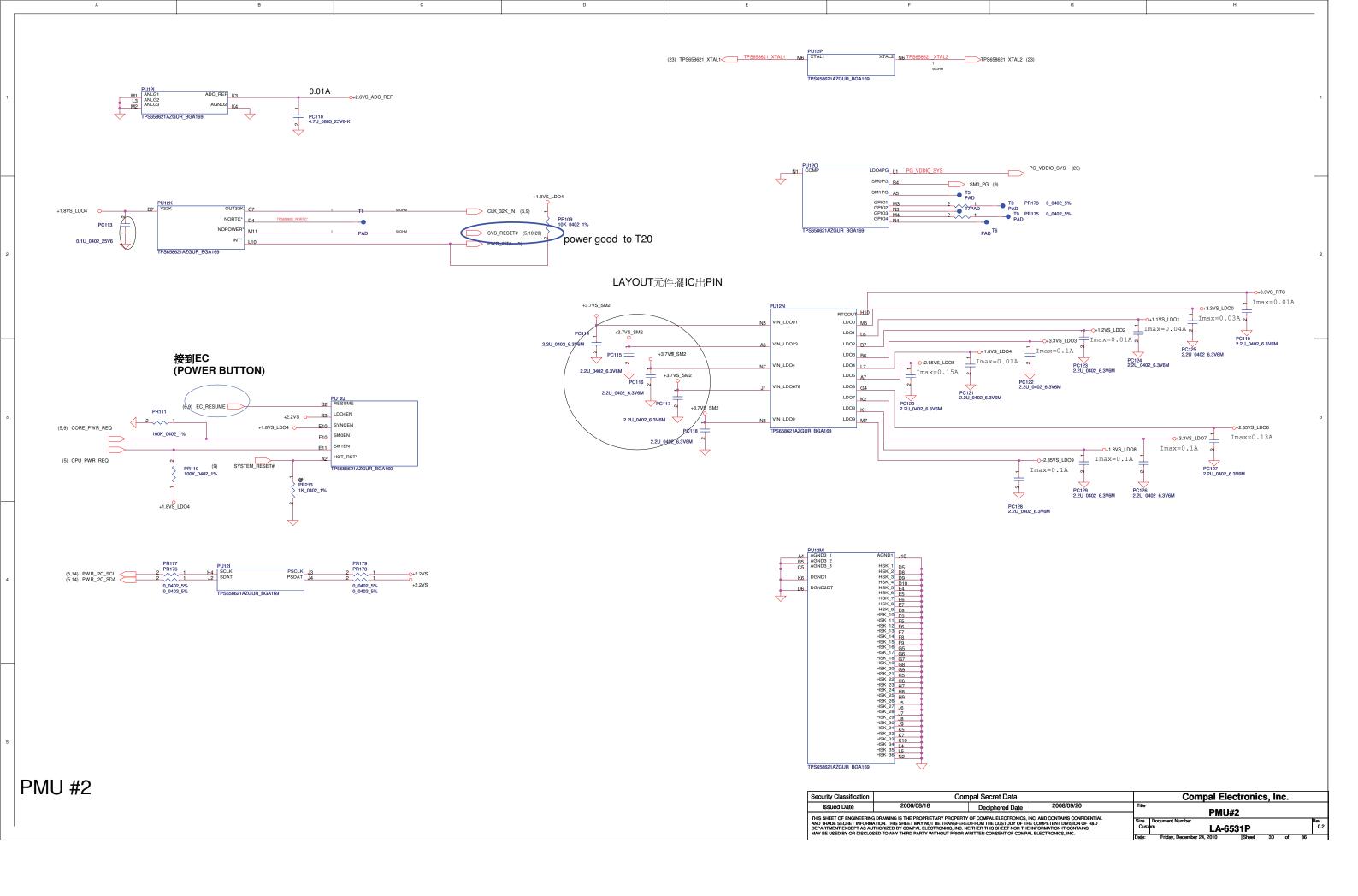


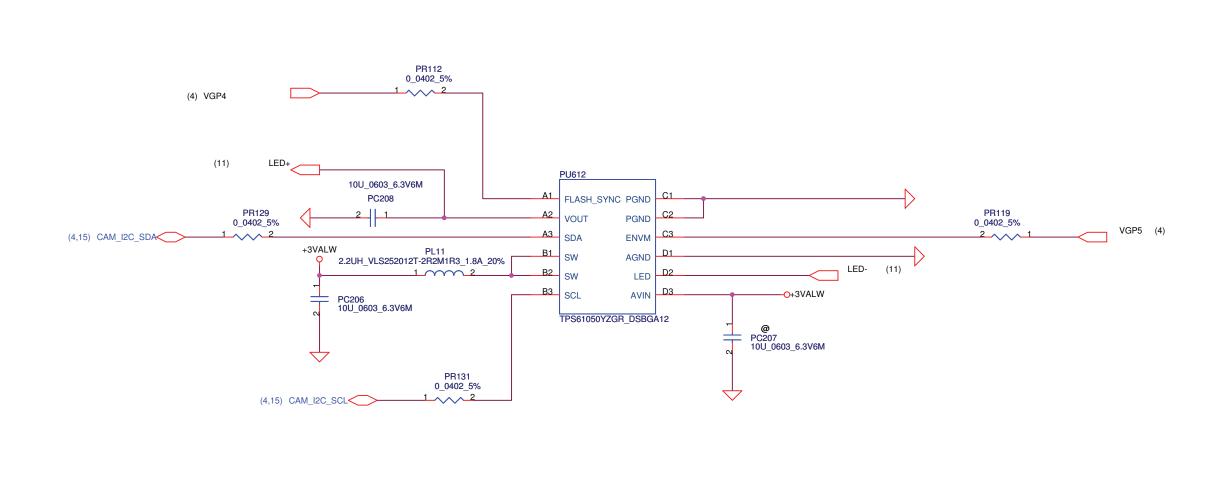








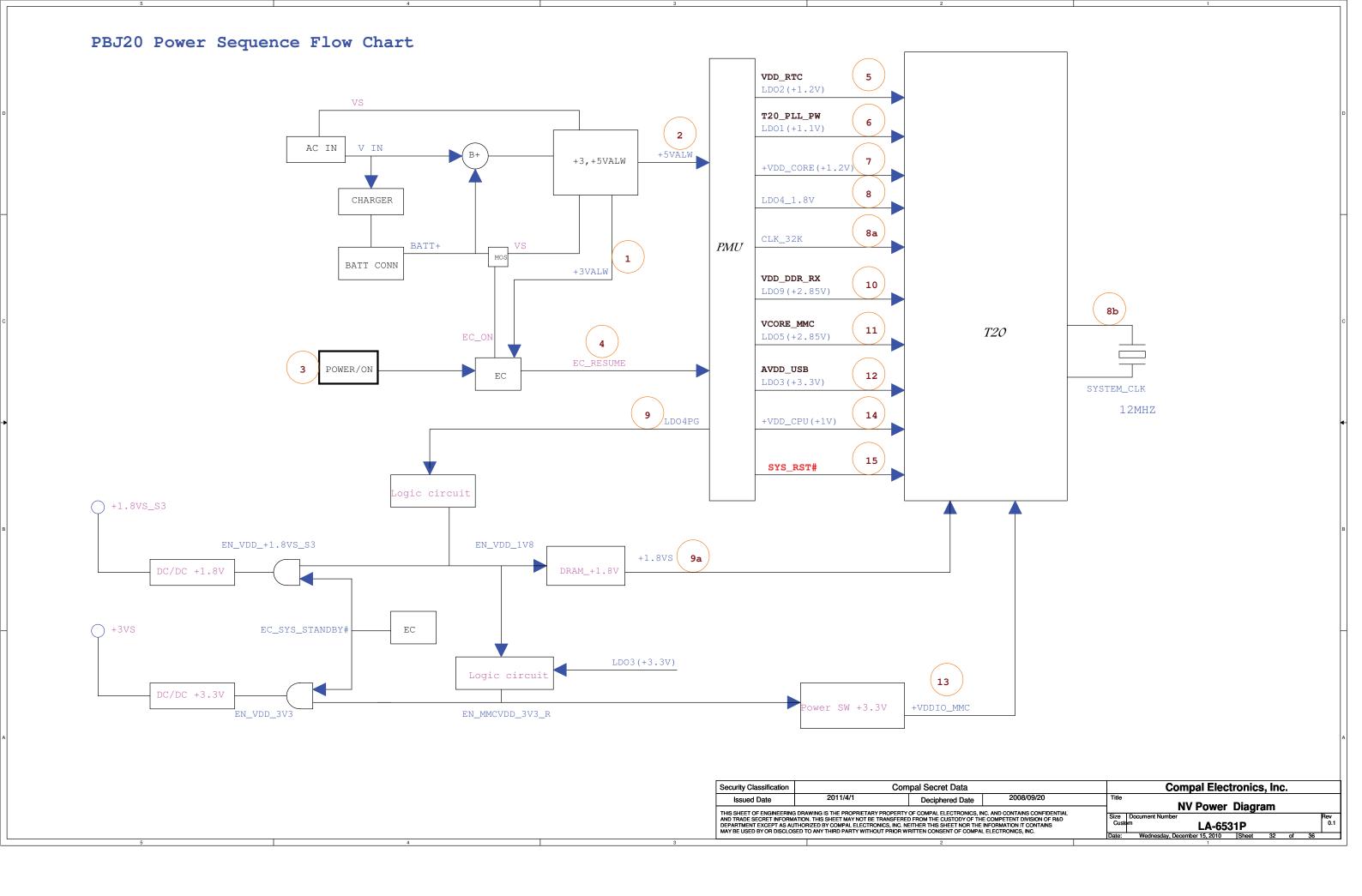


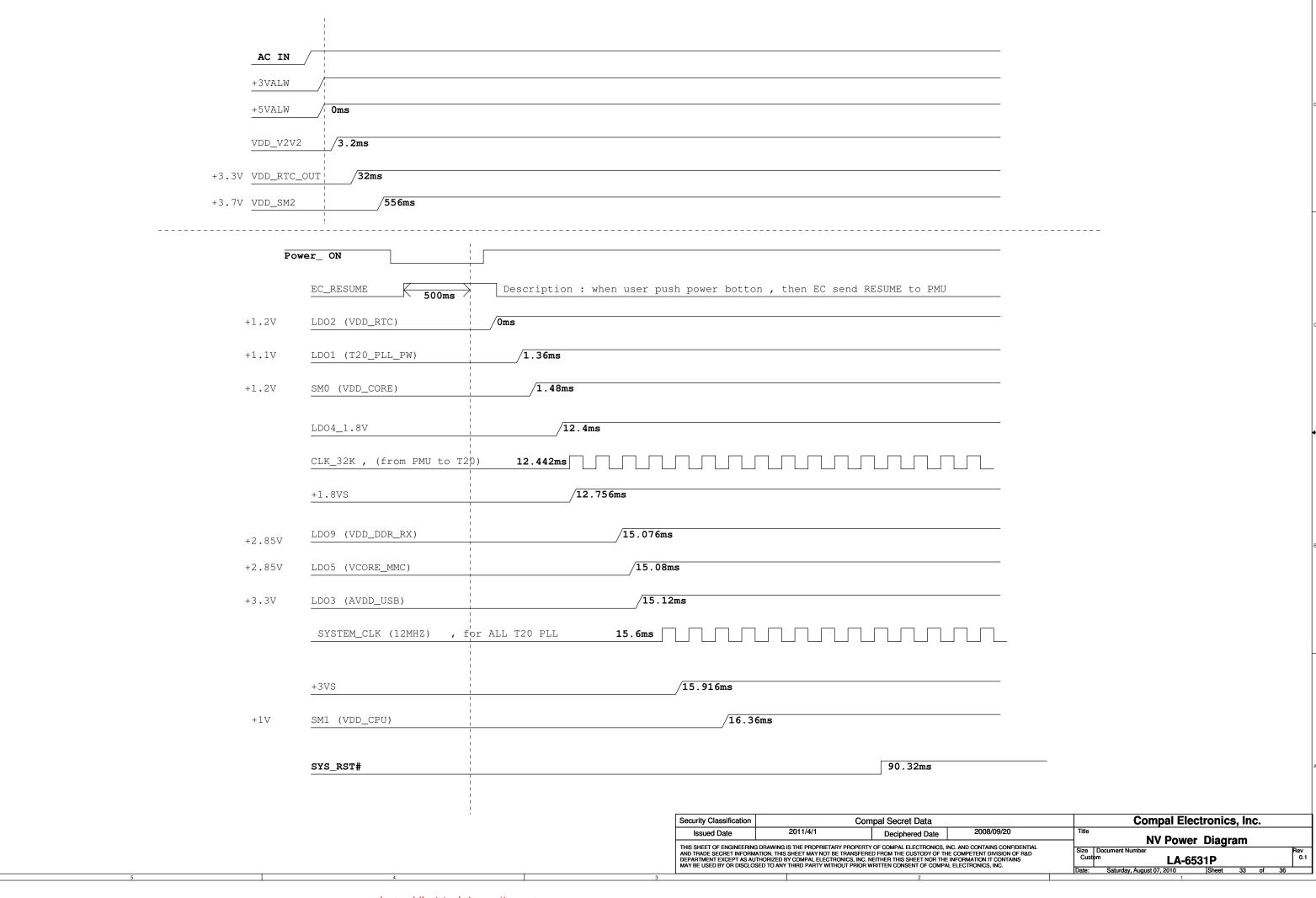


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LA-6531P
Wednesday, January 05, 2011 | Sheet





PBJ20 I2C Routing H4 J2 0x68 (writes) E~Compass Tempature Sensor 1001 100x b 0x69 (reads) PMUH28 H27 CAM_I2C Camera Camera LED flash *5M* 1.3M 0110 110x b 1001 000x b 0110 011x b Н6 GEN1_I2C Level shift LEVEL : 1.8V 36 37 IME_I2C **AUDIO** Light Sensor Touch Panel Gyro CODEC 1101 000x b 1000 100x b 0100 110x b 0011 010x b G-Sensor 0001 111x b EC_SMB 77 78 +3VALW AD11 LEVEL : 3.3V AD6 Level shift **TEGRA** *T20* echo cancellation Battery Con 1100 000x b LCD3G CARD Battery Con EC W23 HDMI_DDC Y23 **HDMI** Compal Electronics, Inc. Compal Secret Data CONN. Security Classification 2011/4/1 2008/09/20 Issued Date Deciphered Date 1010 000x 1 **I2C ROUING** 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 LECTRONICS, INC. NEITHER THIS SHEET INOR THIS PROPARTION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC. http://hobi-elektronika.net LA-6531P Wednesday, November 17, 2010 | Sheet 34 of

Version change list (P.I.R. List) Item | Fixed Issue Reason for change Rev. P*G#*

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Version change list (P.I.R. List)

Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	Date	Phase
1		增加控制CAMERA的GPIO	A		add CAM1_PWDN,CAM2_OE,CAM2_RST#,CAM1_RST#	08/29	DVT
2		修改EC firmware pin define	Α		add KSI4,KSI5,KSI6,KSI7	08/29	DVT
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