Project Name : SFBW01
Platform : Braswell(For Valleyview-D/I/M System On Chip)

M/B Schematic Version Change List

Release Date	Version	PCB P/N	PCB Description	PCBA P/N	Note

Daughter Board Schematic Version Change List

Release Date	Version	PCB P/N	PCB Description	PCBA P/N	Note

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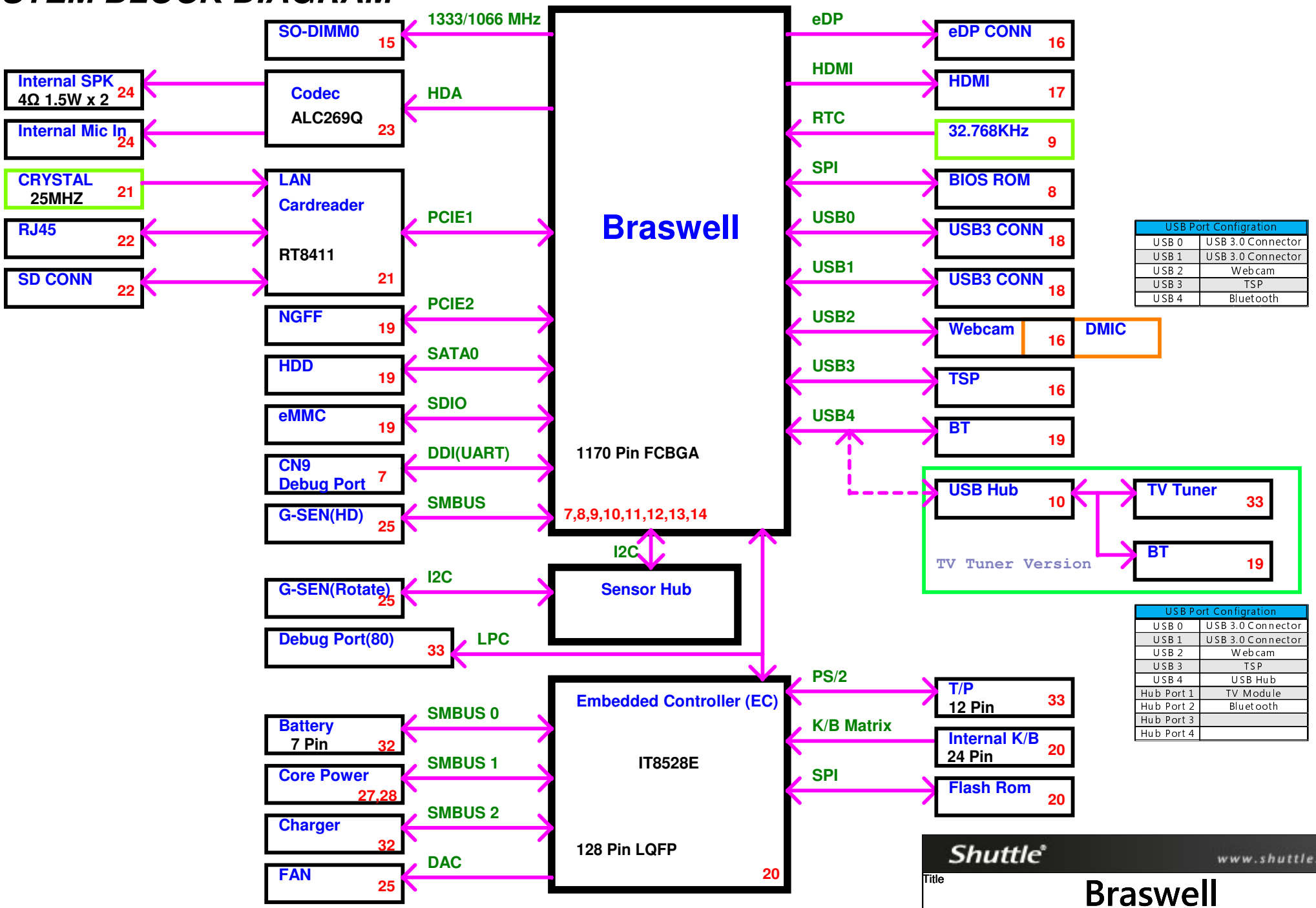
Title: Braswell

Size: A3 | Document Number: Index | Rev: 1.1

Date: Tuesday, February 16, 2016 | Sheet 1 of 36

SYSTEM BLOCK DIAGRAM



USB Port Configration	
USB 0	USB 3.0 Connector
USB 1	USB 3.0 Connector
USB 2	Webcam
USB 3	TSP
USB 4	Bluetooth

USB Port Configration	
USB 0	USB 3.0 Connector
USB 1	USB 3.0 Connector
USB 2	Webcam
USB 3	TSP
USB 4	USB Hub
Hub Port 1	TV Module
Hub Port 2	Bluetooth
Hub Port 3	
Hub Port 4	

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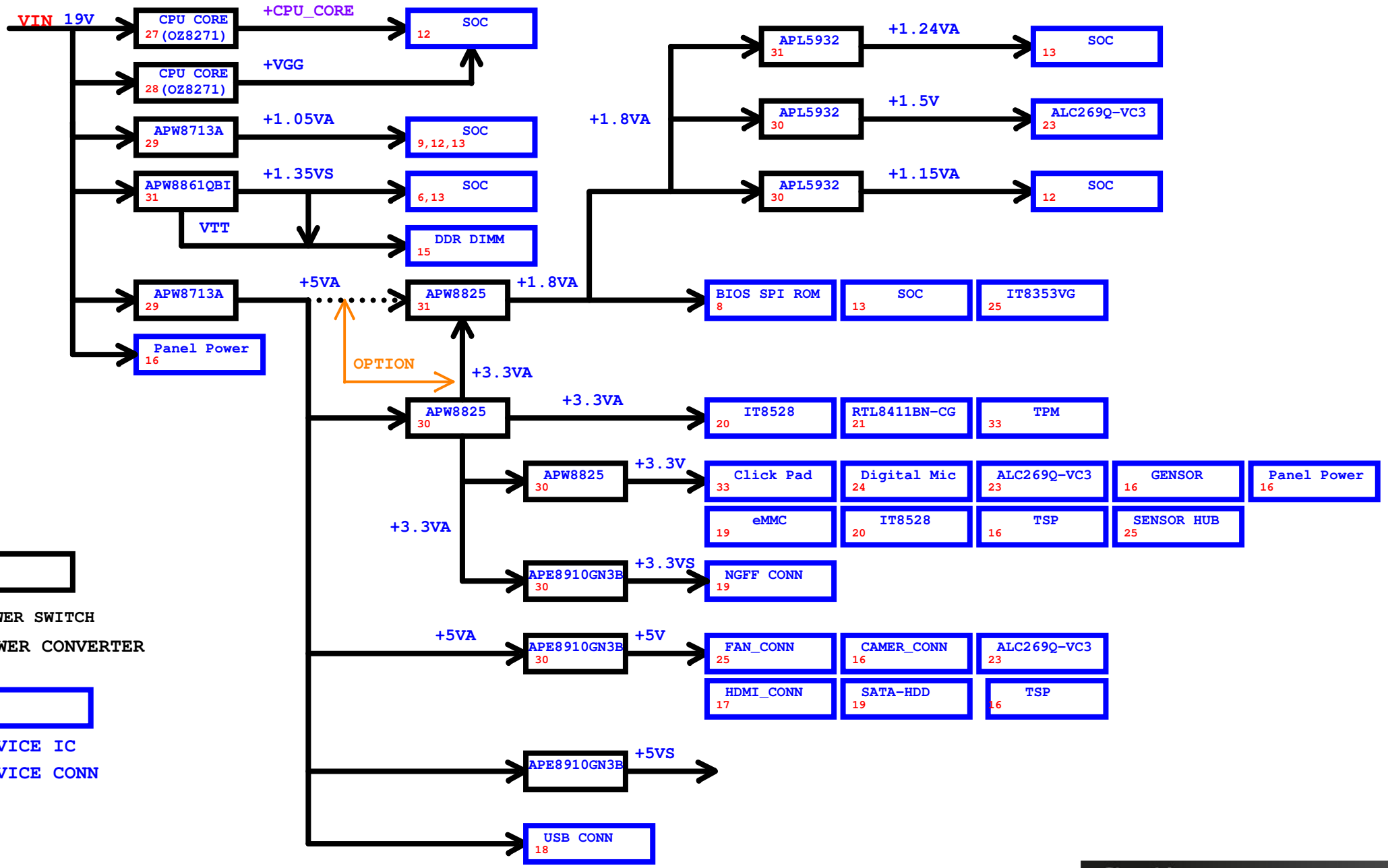
Title: Braswell

Size	Document Number	Rev
A4	SYSTEM BLOCK	1.1

Date: Tuesday, February 16, 2016 Sheet 2 of 36

POWER BLOCK DIAGRAM



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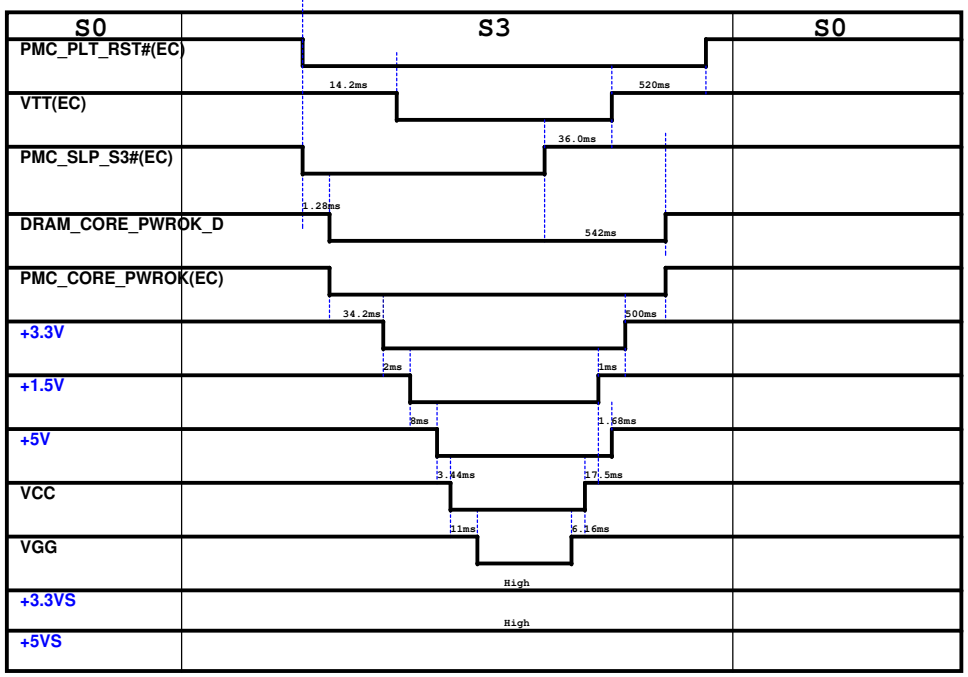
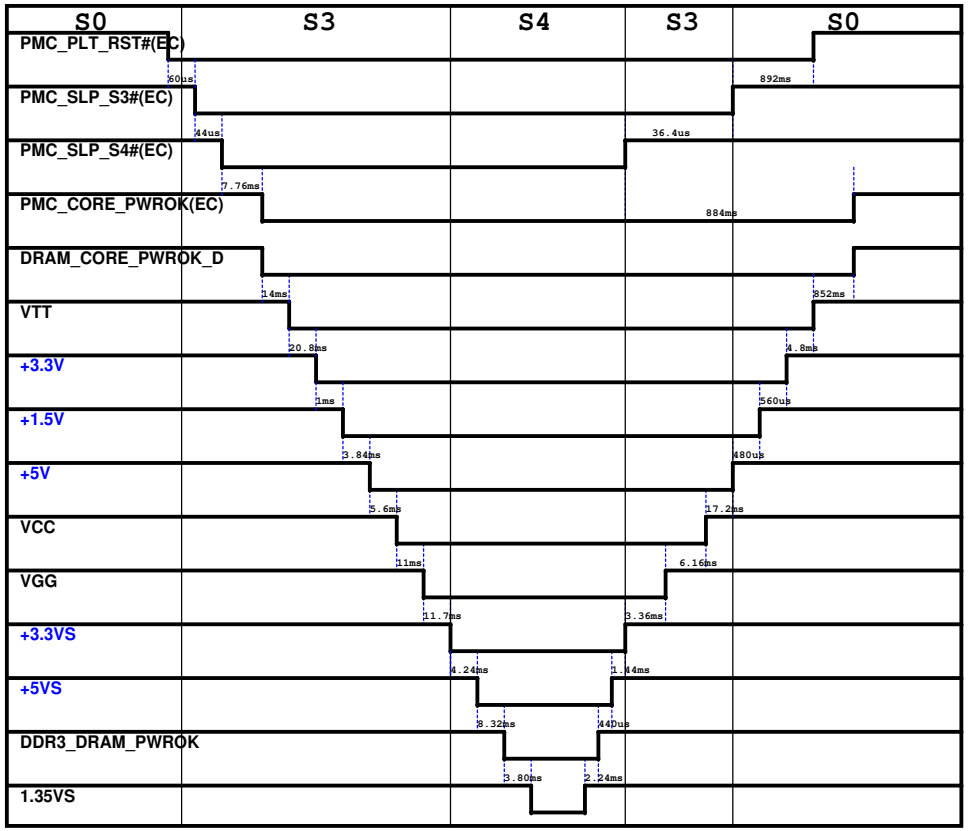
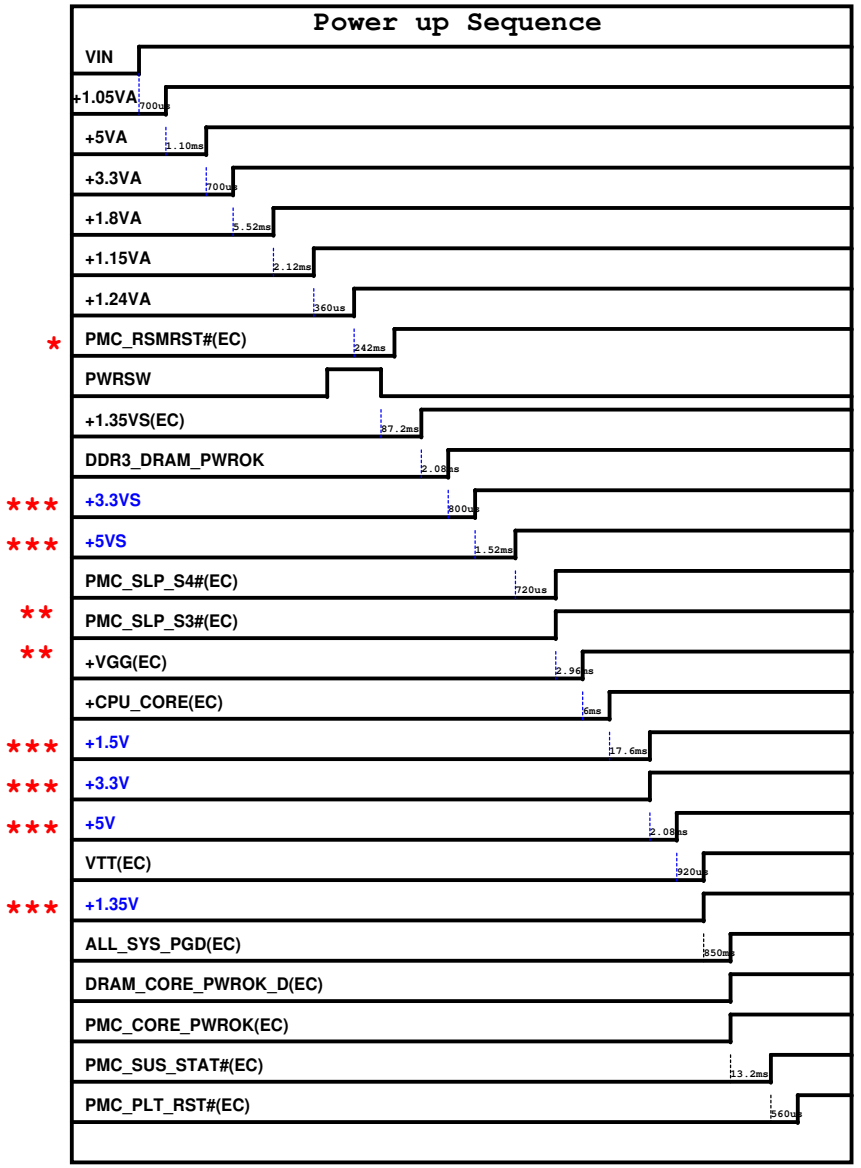
Title	Braswell	
Size A3	Document Number POWER DIAGRAM	Rev 1.1
Date: Tuesday, February 16, 2016	Sheet 3 of 35	







* EC Control Pin (O/P)

** EC Control Pin (I/P)

*** Add test item

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Title	Braswell	
Size A3	Document Number SEQUENCE	Rev 1.1
Date: Tuesday, February 16, 2016	Sheet 4 of 36	

EC GPIO Table

Port		PIN	Pin Name	Net Name	I/O	PU/PD
Port.A	A0	24	PWM0/GPA0(Up)			
	A1	25	PWM1/GPA1(Up)	BATT_VA_OFF#	O	PD
	A2	28	PWM2/GPA2(Up)	BTL_BEEP	O	NC
	A3	29	PWM3/GPA3(Up)	OZ8690_CEN	O	NC
	A4	30	PWM4/GPA4(Up)	+1.8V_ON	O	NC
	A5	31	PWM5/GPA5(Up)	SENBAT_V	O	PD
	A6	32	PWM6/SSCK/GPA6(Up)	PMC_RSMRST#	O	PD
	A7	34	PWM7/RIG1#/GPA7(Up)	EC_BL_PWM	O	NC
Port.B	B0	108	RXD/SIN0/GPB0(Up)	PM_SLP_S4#	I	PU
	B1	109	TXD/SOUT0/GPB1(Up)	PM_SLP_S3#	I	PU
	B2	123	CTX0/TMA0/GPB2(Dn)	CPU_BL_ON_RTD_DET	I	PU
	B3	110	SMCLK0/GPB3(X)	BAT_SMBCLK	O	NC
	B4	111	SMDAT0/GPB4(X)	BAT_SMBDAT	IO	PU
	B5	126	GA20/GPB5(X)	RTC_RST	O	PD
	B6	4	KBRST#/GPB6(X)	+3.3V	I	PU
	B7	112	RING#/PWRFAIL#/CK32KOUT/LPCRST#/GPB7(Dn)	SAFTY_PROTECT	O	PD
Port.C	C0	119	CRX0/GPC0(Dn)	LAN_PWR_ON	O	NC
	C1	115	SMCLK1/GPC1(X)	SMB_CLK_EC	O	PU
	C2	116	SMDAT1/GPC2(X)	SMB_DATA_EC	IO	PU
	C3	56	KSO16/SMOSI/GPC3(Dn)			
	C4	120	TMRI0/WUI2/GPC4(Dn)			
	C5	57	KSO17/SMISO/GPC5(Dn)	1.5V_3.3V_5V_ON	O	NC
	C6	124	TMRI1/WUI3/GPC6(Dn)	PANEL_3.3V_ON	O	NC
	C7	16	PWUREQ#/BBO/SMCLK2ALT/GPC7(Up)	+1.35VS_ON	O	NC
Port.D	D0	18	RI1#/WUI0/GPD0(Up)	ADAP_IN	I	PD
	D1	21	RI2#/WUI1/GPD1(Up)	PWRBTN#	O	NC
	D2	22	LPCRST#/WUI4/GPD2(Up)	PLT_RST#	I	PU
	D3	23	ECSCI#/GPD3(Up)	SMC_WAKE_SCI#	O	NC
	D4	15	ECSMI#/GPD4(Up)	EC_EXTSMI#	O	PU
	D5	33	GINT/CTS0#/GPD5(Up)	CPU_LCDVDD_EN_EC_DET	I	PU
	D6	47	TACH0A/GPD6(Dn)	FAN_RPM	I	NC
	D7	48	TACH1A/TMA1/GPD7(Dn)	PWR_USB#	O	PU
Port.E	E0	19	L80HLAT/BAO/WUI24/GPE0(Dn)	LID#	I	PU
	E1	82	EGAD/WUI25/GPE1(Dn)	+1.05VA_ON	O	NC
	E2	83	EGCS#/WUI26/GPE2(Dn)	ALL_SYS_PGD	O	NC
	E3	84	EGCLK/WUI27/GPE3(Dn)	VCORE_ON	O	NC
	E4	125	PWRSW/GPE4(Up)	PWRSW	I	PU
	E5	35	RTS1#/WUI5/GPE5(Dn)	LVDS_VIN	O	NC
	E6	17	LPCPD#/WUI6/GPE6(Dn)	WLAN_ON	O	PD

Port		PIN	Pin Name	Net Name	I/O	PU/PD
Port.F	F0	85	PS2CLK0/TMB0/GPF0(Up)			
	F1	86	PS2DAT0/TMB1/GPF1(Up)	TXE_DISABLE	O	NC
	F2	87	PS2CLK1/DTR0#/GPF2(Up)	BT_ON	O	PU
	F3	88	PS2DAT1/RTS0#/GPF3(Up)			
	F4	89	PS2CLK2/WUI20/GPF4(Up)	TP_CLK	O	NC
	F5	90	PS2DAT2/WUI21/GPF5(Up)	TP_DATA	IO	NC
	F6	117	PECI/SMCLK2/WUI22/GPF6(Up)	CHG_SMCLK	O	NC
	F7	118	SMDAT2/WUI23/GPF7(Up)	CHG_SMDATA	IO	NC
Port.G	G0	106	SSCE1#/GPG0(X)			
	G1	107	DTR1#/SBUSY/GPG1/ID7(Dn)	+3.3VS_5VS_ON	O	NC
	G2	100	SSCE0#/GPG2(X)			
	G6	104	DSR0#/GPG6(X)	WEBCAM_ON	O	NC
Port.H	H0	93	CLKRUN#/WUI16/GPH0/ID0(Dn)	PLATFORM_ID1	I	PD
	H1	94	CRX1/WUI17/SIN1/SMCLK3/GPH1/ID1(Dn)	PID_1_CHG_R_LED	O	NC
	H2	95	CTX1/WUI18/SOUT1/GPH2/SMDAT3/ID2(Dn)	PID_2_PWR_LED	O	NC
	H3	96	HSCE#/WUI19/GPH3/ID3(Dn)	VGG_ON	O	NC
	H4	97	HSCK/GPH4/ID4(Dn)	PLATFORM_ID2	I	PD
	H5	98	HMISO/GPH5/ID5(Dn)	PLATFORM_ID3	I	PD
	H6	99	HMOSI/GPH6/ID6(Dn)	eMMC_RST	O	PU
Port.I	I0	66	ADC0/GPI0(X)	PLATFORM_ID4	I	PD
	I1	67	ADC1/GPI1(X)	Angle_ID1	I	PU
	I2	68	ADC2/GPI2(X)	PCIE_WAKE#	I	PU
	I3	69	ADC3/GPI3(X)	Angle_ID2	I	NC
	I4	70	ADC4/WUI28/GPI4(X)	BAT_I	I	NC
	I5	71	ADC5/DCD1#/WUI29/GPI5(X)	BATT_TEMP	I	PU
	I6	72	ADC6/DSR1#/WUI30/GPI6(X)	ADAPTOR_I	I	NC
	I7	73	ADC7/CTS1#/WUI31/GPI7(X)	BAT_V	I	PU
Port.J	J0	76	TACH2/GPJ0(X)	EC_BL_ON	O	NC
	J1	77	GPJ1(X)	EC_PROCHOT	O	PD
	J2	78	DAC2/TACH0B/GPJ2(X)	FAN_CTRL0	O	NC
	J3	79	DAC3/TACH1B/GPJ3(X)	VTT_ON	O	NC
	J4	80	DAC4/DCD0#/GPJ4(X)	CHG_REF	O	NC
	J5	81	DAC5/RIG0#/GPJ5(X)		O	NC
Port.M	M.0	10	LAD0/GPM0(X)	LPC_AD0_EC	IO	NC
	M.1	9	LAD1/GPM1(X)	LPC_AD1_EC	IO	NC
	M.2	8	LAD2/GPM2(X)	LPC_AD2_EC	IO	NC
	M.3	7	LAD3/GPM3(X)	LPC_AD3_EC	IO	NC
	M.4	13	LPCCLK/GPM4(X)	CLK_EC_LPC	I	NC
	M.5	6	LFRAME#/GPM5(X)	LPC_FRAME#	I	NC

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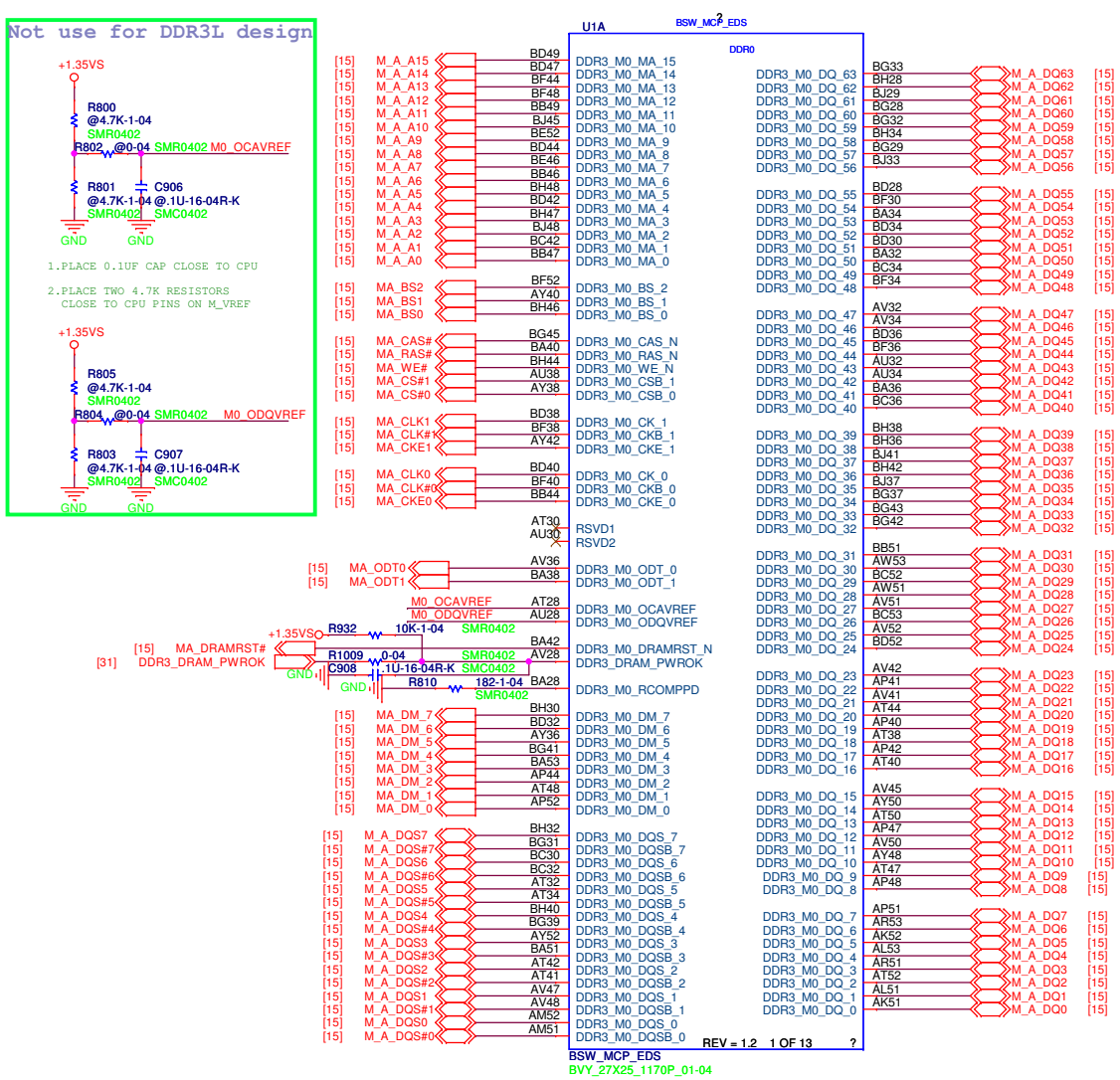
Title: Braswell

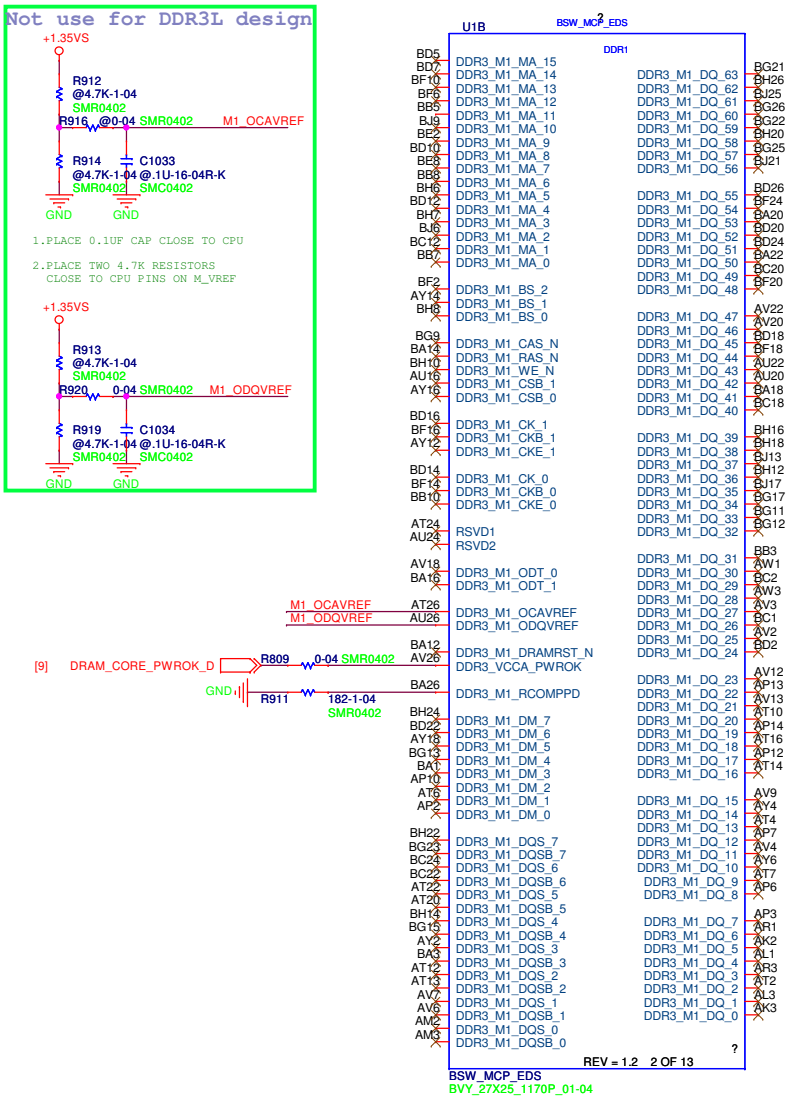
Size: A3 | Document Number: EC GPIO Table | Rev: 1.1

Date: Tuesday, February 16, 2016 | Sheet 5 of 36

DDR0



DDR1



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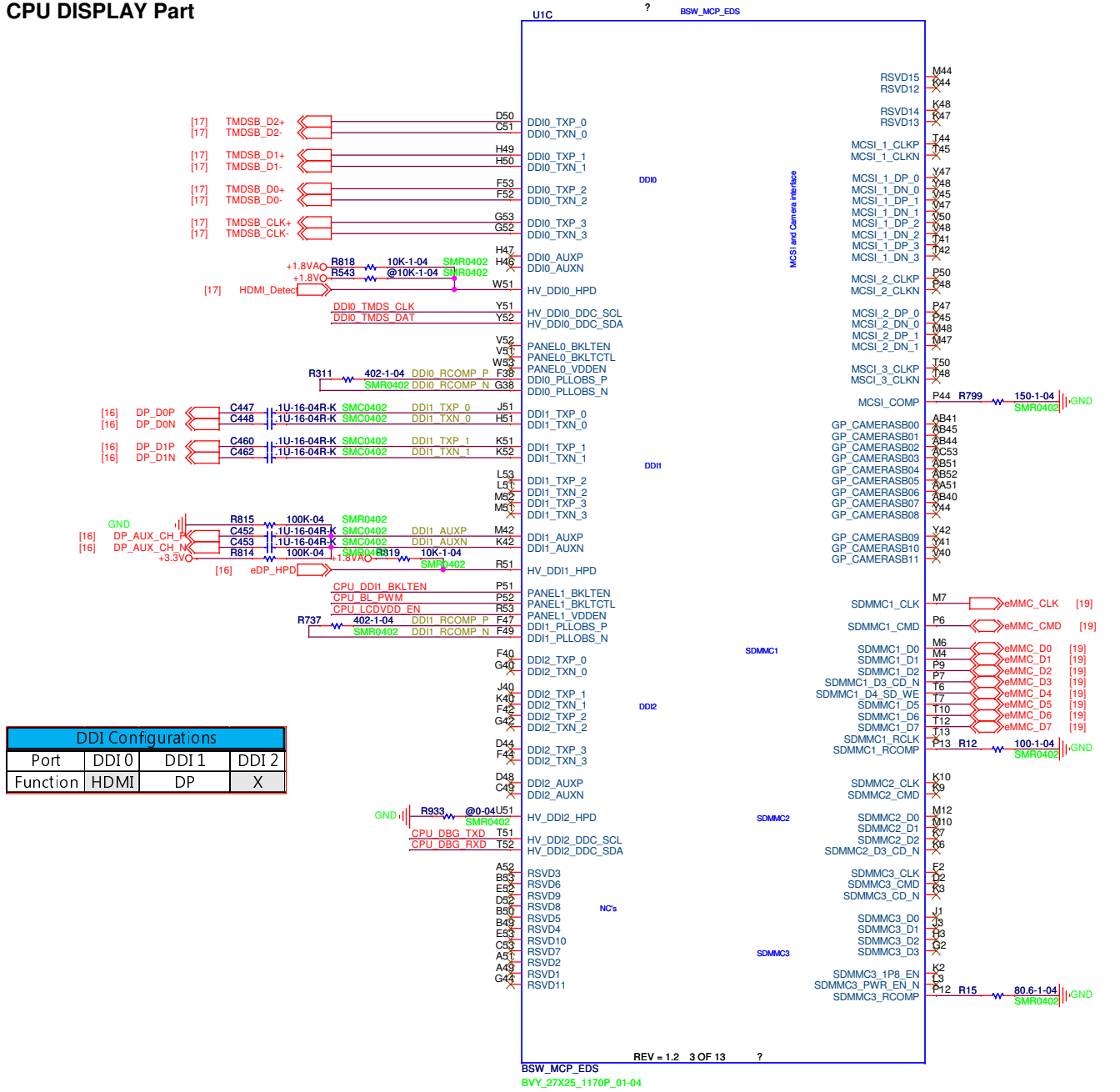
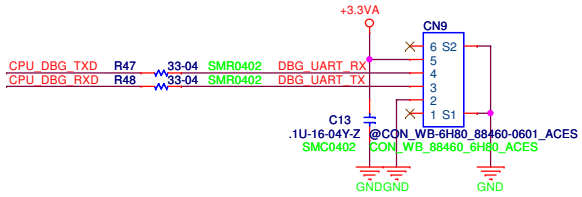
Title	Braswell	
Size A3	Document Number CPU-DDR	Rev 1.1
Date: Tuesday, February 16, 2016	Sheet 6 of 36	

CPU DISPLAY Part

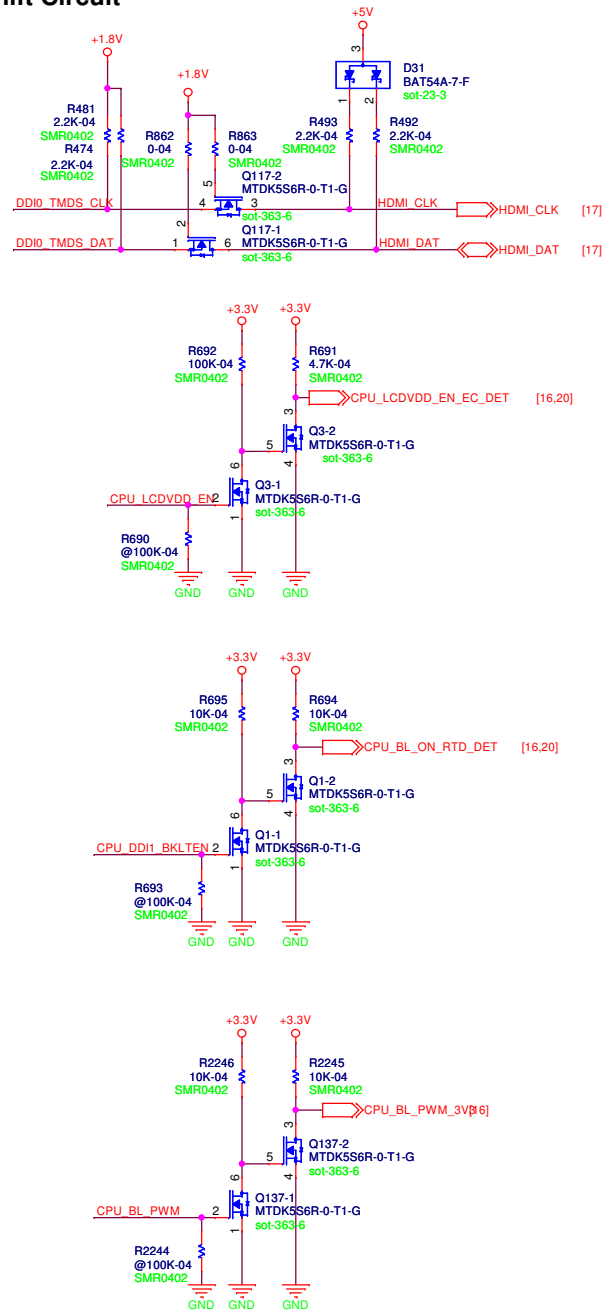


DDI Configurations			
Port	DDI 0	DDI 1	DDI 2
Function	HDMI	DP	X

Debug Port



Level Shift Circuit

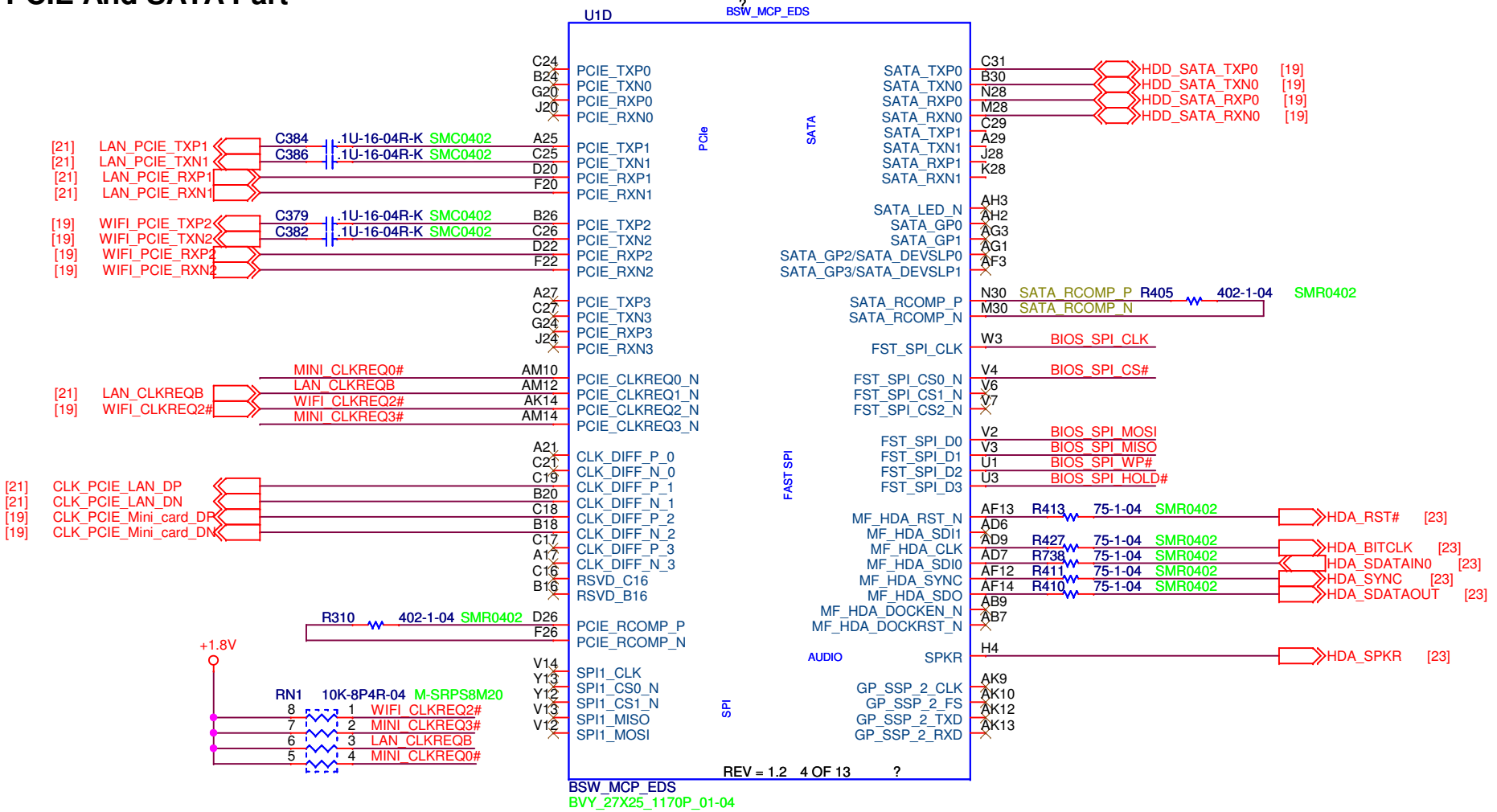


Title: Braswell

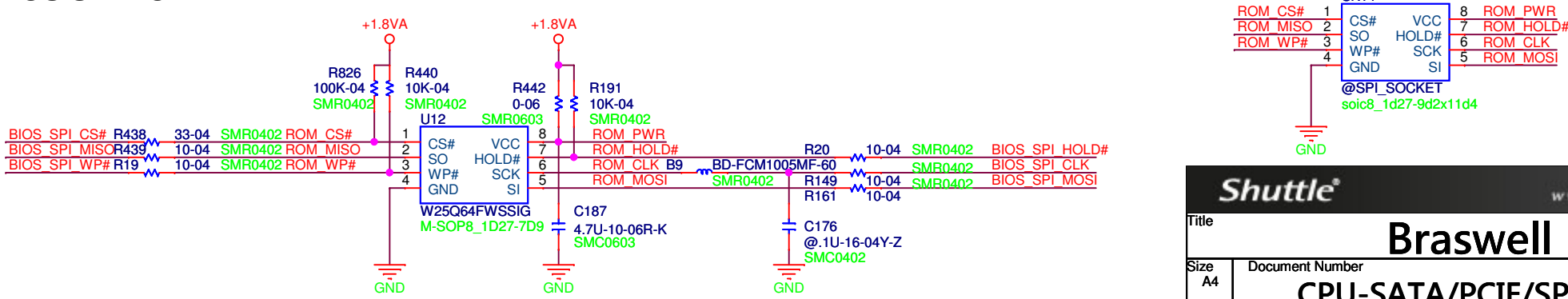
Size	Document Number	Rev
A3	CPU-DISPLAY	1.1

Date: Tuesday, February 16, 2016 Sheet 7 of 36

CPU PCIE And SATA Part



BIOS SPI ROM



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Title: Braswell

Size	Document Number	Rev
A4	CPU-SATA/PCIE/SPI ROM	1.1

Date: Tuesday, February 16, 2016 Sheet 8 of 36

CPU PMU Part

Add For No Battery (AIO type)

[29,31] +5VA_PG — D24 RB520S-H M-DIODE-SOD-523FL R1100 100-04 SMR0402 PMC_RSMRST#
D25 RB520S-H M-DIODE-SOD-523FL R1101 100-04 SMR0402 ALL_SYS_PGD

U1G BSW_MCP_EDS

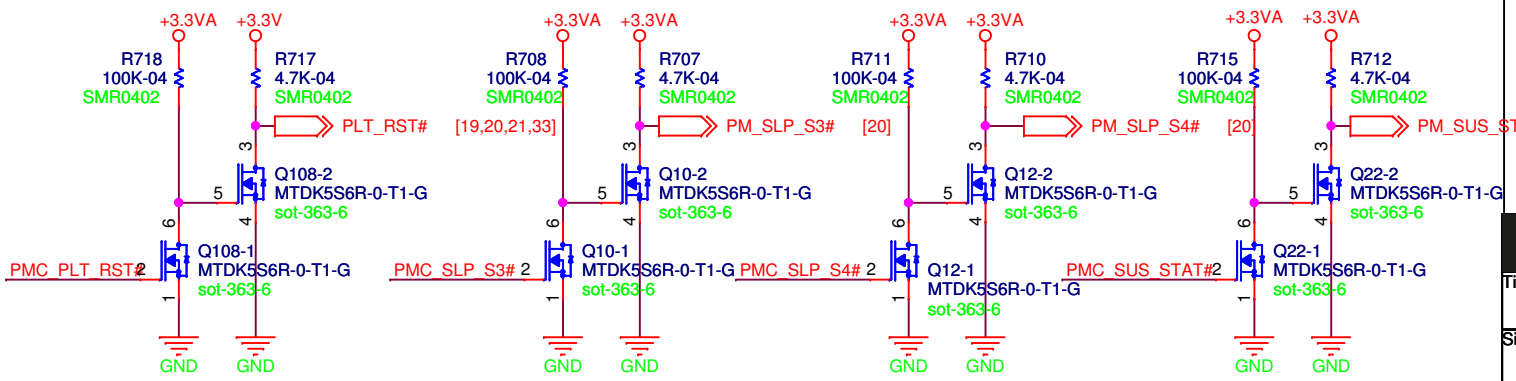
JTAG/ITP: TCK, TDI, TDO, TMS, TRST_N
RTC: RTC_X1, RTC_X2, RTC_EXTPAD, RTC_RST_N, COREPWROK, RSMRST_N, RTC_TEST_N, RSVD_VSS
LPC: CX_PRDY_N, CX_PREQ_N, RSVD5, MF_LPC_CLKOUT0, MF_LPC_CLKOUT1, LPC_CLKRUN_N, LPC_FRAME_N, MF_LPC_AD0, MF_LPC_AD1, MF_LPC_AD2, MF_LPC_AD3, LPC_HVT_RCOMP, ILB_SERIRQ
PWM: RSVD_H5, RSVD_H7
RESERVED: RSVD6, RSVD7, RSVD4, RSVD3, RSVD1, RSVD2, PROCHOT_N
PMU: SUSPWRDNACK, SUS_STAT_N, PMU_SUSCLK, PMU_SLP_S4_N, PMU_SLP_S3_N, PMU_RESETBUTTON_N, PMU_PLTRST_N, PMU_BATLOW_N, PMU_AC_PRESENT, PMU_SLP_S0IX_N, PMU_SLP_LAN_N, PMU_WAKE_N, PMU_PWRBTN_N, PMU_WAKE_LAN_N
SVID: SVID0_CLK, SVID0_DATA, SVID0_ALERT_N
VOLTAGE SENSE: CORE_VCC0_SENSE, CORE_VSS0_SENSE, CORE_VCC1_SENSE, CORE_VSS1_SENSE, DDI_VGG_SENSE, UNCORE_VSS_SENSE2, UNCORE_VSS_SENSE1

REV = 1.2 7 OF 13
BSW_MCP_EDS BVY_27X25_1170P_01-04

Signal Name	Description
RTC_RST#	RTC Reset - When asserted, this signal resets register bits in the RTC well.
RTC_TEST#	RTC Battery Test -An external RC circuit creates a time delay for the signal such that it will go high (to ILB_RTC_3P3_G3) sometime after the battery voltage is valid. The RC time delay should be in the 18~25 ms range. This signal will be internally asserted just after suspend power is up if coin cell battery is weak.

Level Shift to CPU 1.8V

Level Shift to EC 3.3V



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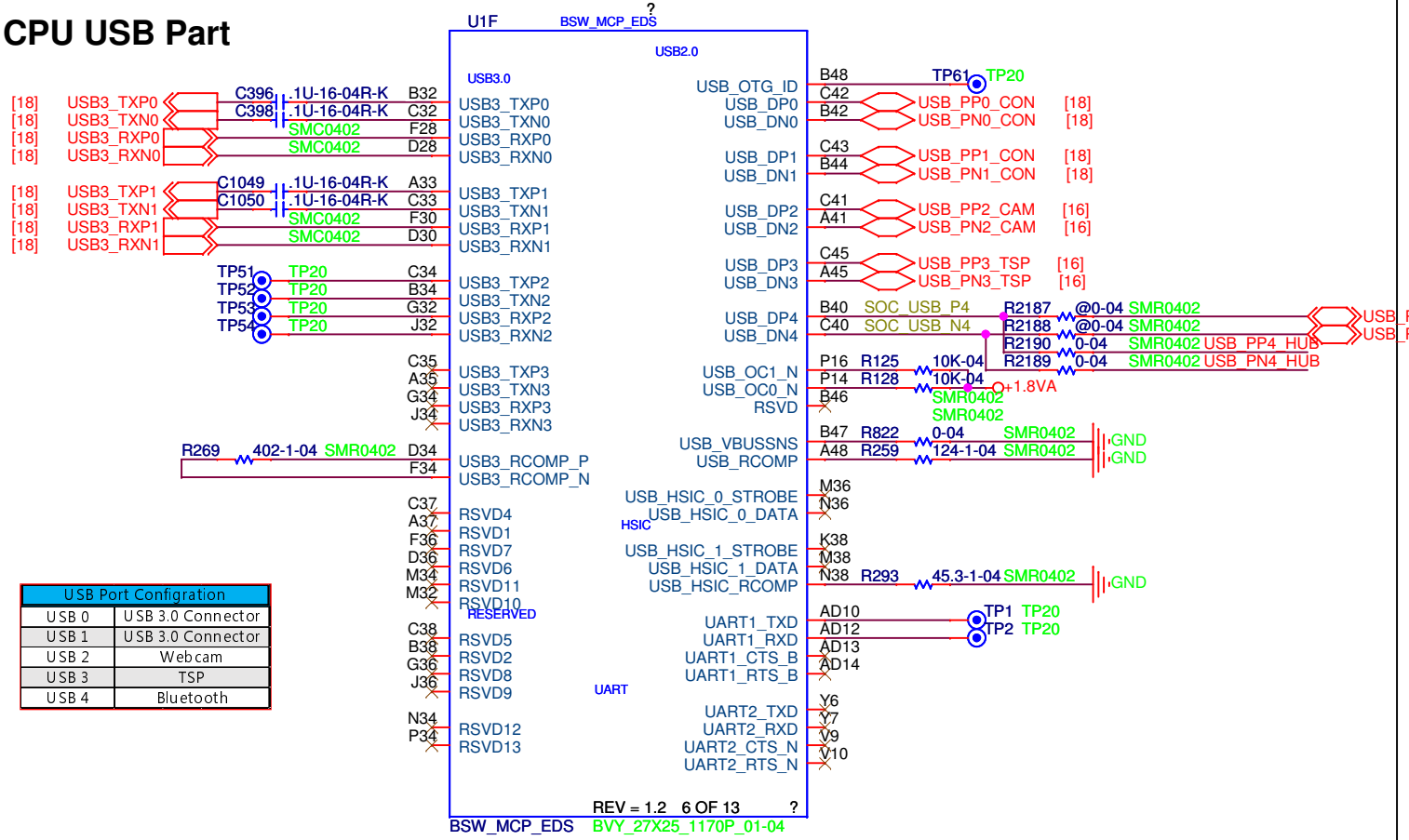
Title: Braswell

Size	Document Number	Rev
A4	CPU-PMU	1.1

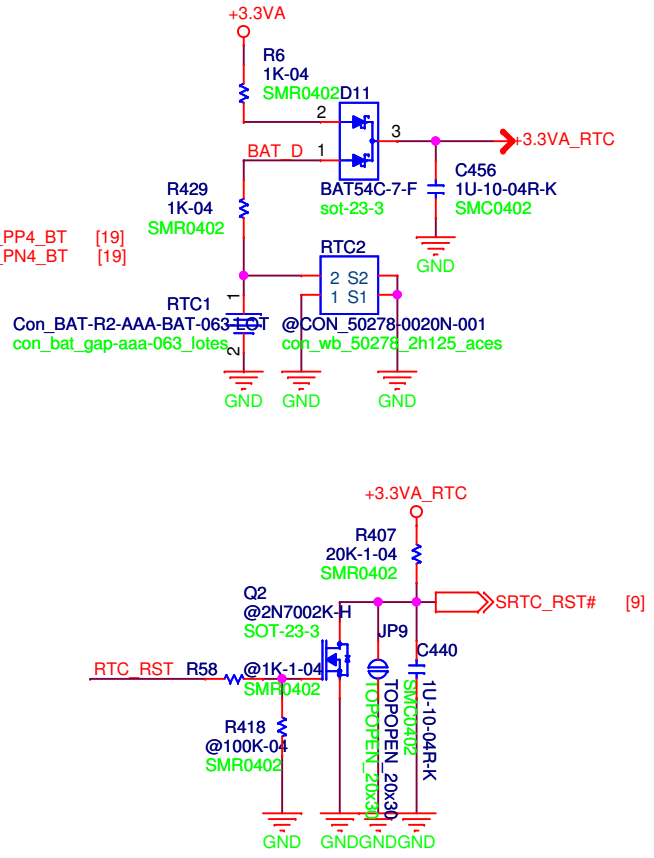
Date: Tuesday, February 16, 2016 Sheet 9 of 36

CPU USB Part



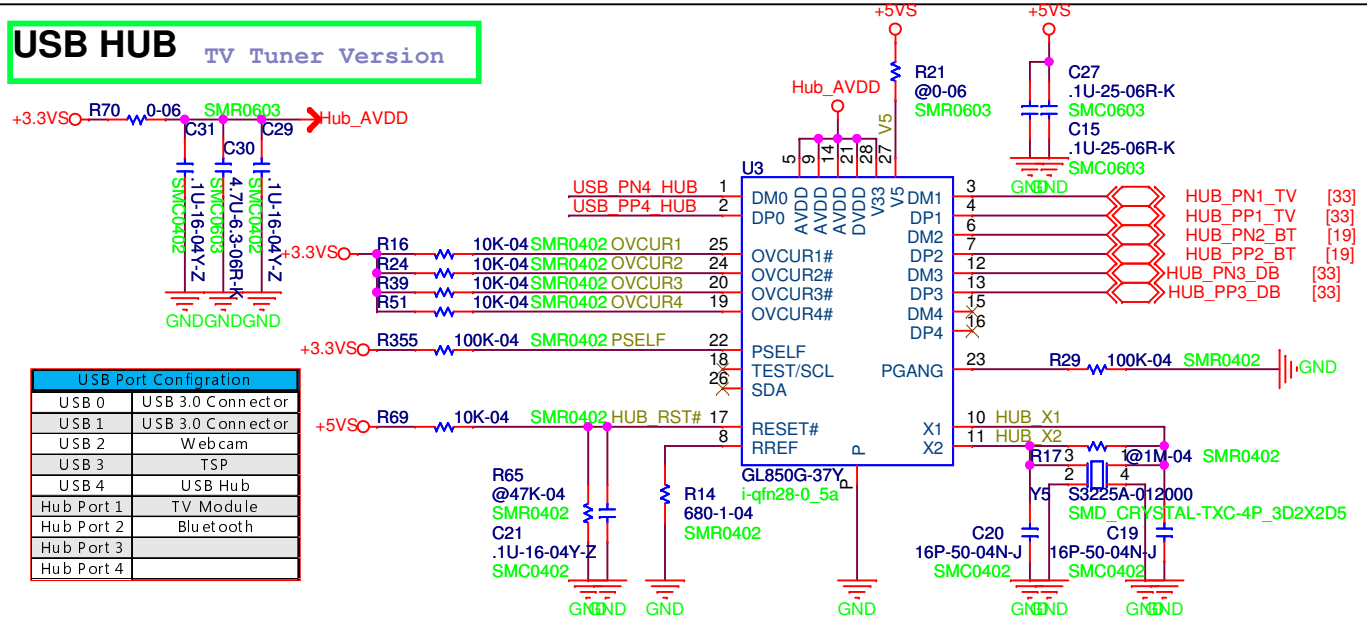
USB Port Configration	
USB 0	USB 3.0 Connector
USB 1	USB 3.0 Connector
USB 2	Webcam
USB 3	TSP
USB 4	Bluetooth

RTC Reset Function



USB HUB

TV Tuner Version



USB Port Configration	
USB 0	USB 3.0 Connector
USB 1	USB 3.0 Connector
USB 2	Webcam
USB 3	TSP
USB 4	USB Hub
Hub Port 1	TV Module
Hub Port 2	Bluetooth
Hub Port 3	
Hub Port 4	

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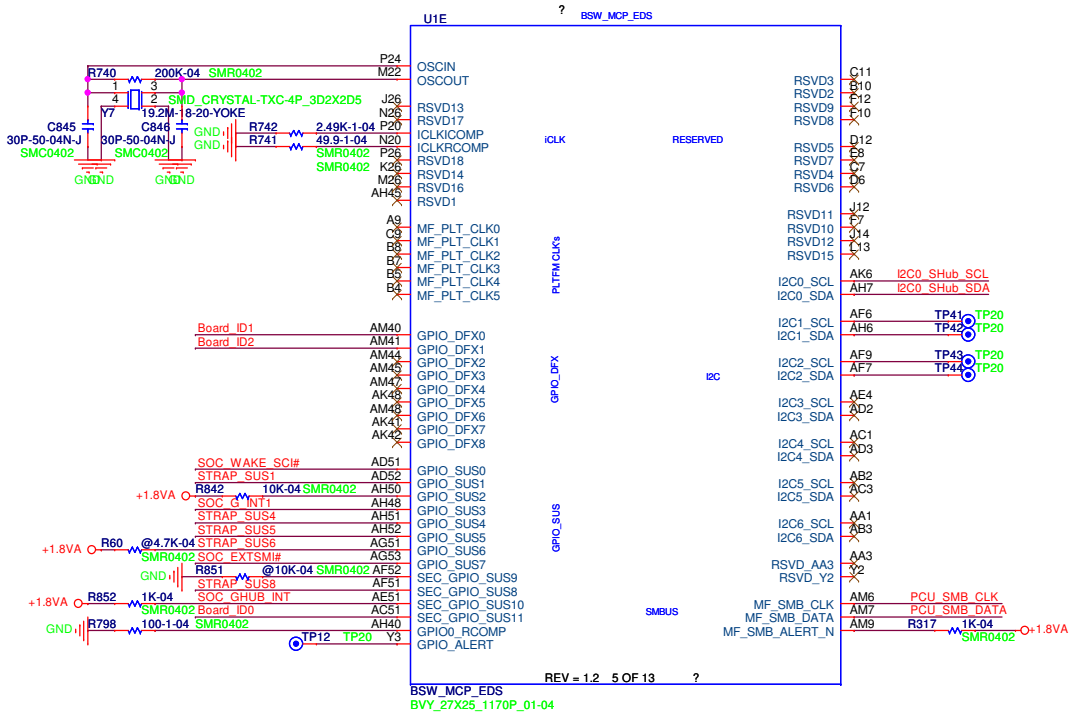
Title: Braswell

Size	Document Number	Rev
A4	CPU-USB/USB Hub	1.1

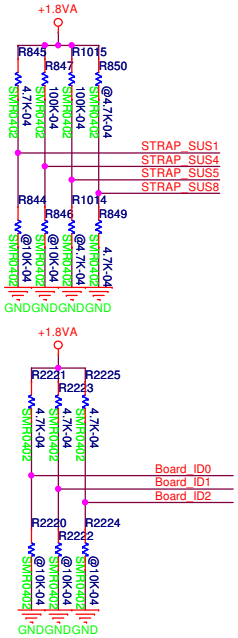
Date: Tuesday, February 16, 2016 Sheet 10 of 36

CPU GPIO Part



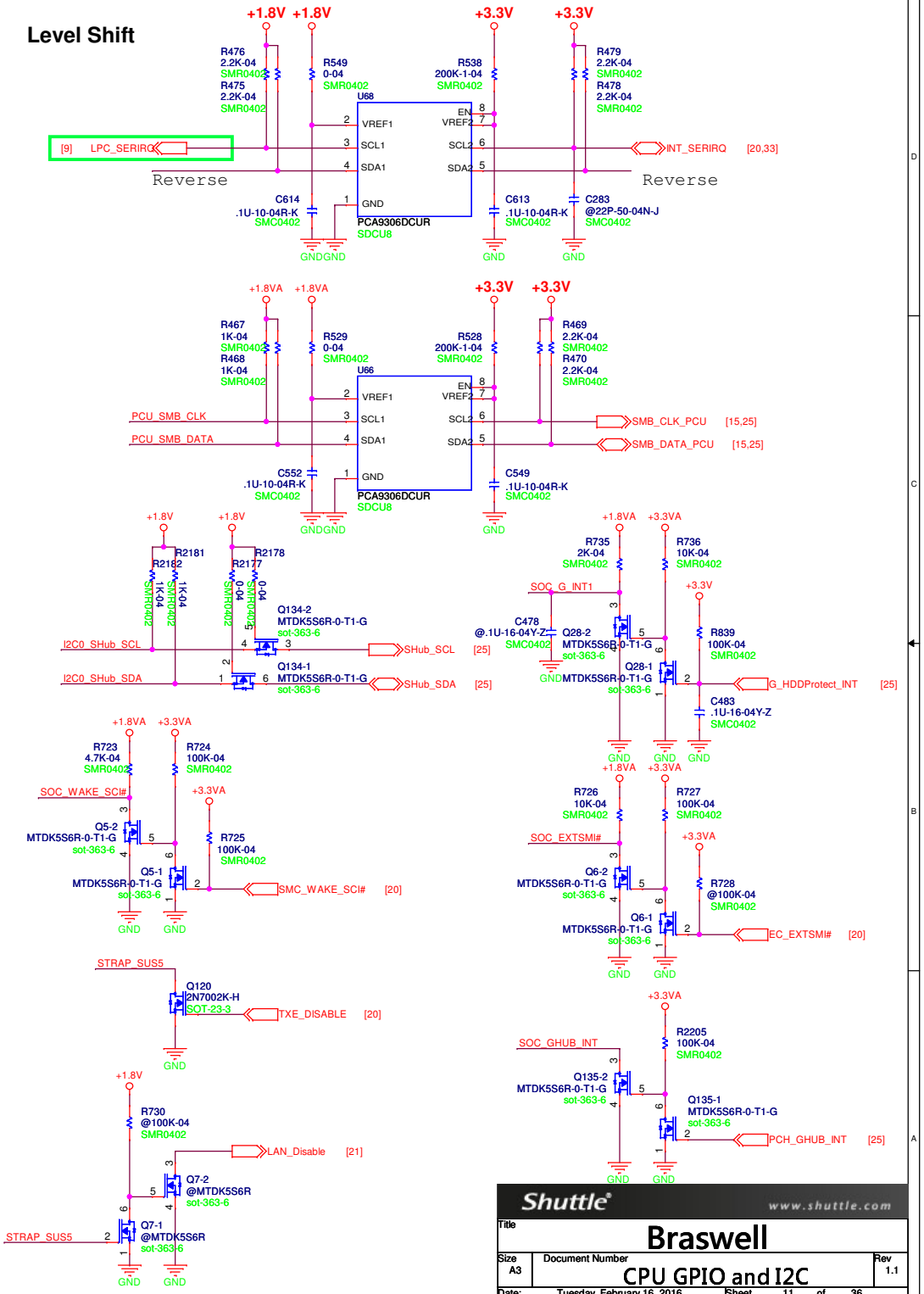
Hardware Strap

Purpose	Pin Name	PU/PD(internal-weak)	Options	State
DDI0 Detected	GPIO_SUS0	PD	0 - Diable 1 - DDI0 Detect	1
DDI1 Detected	GPIO_SUS1	PD	0 - Diable 1 - DDI1 Detect	1
Top Swap override	GPIO_SUS2	PU	0 - Normal Operation 1 - Change Boot Loader address	0
DSI Display Detected	GPIO_SUS3	PD	0 - Diable 1 - DSI Detect	0
Boot Bios Strap BBS	GPIO_SUS4	PU	0 - No SPI (Default) 1 - Boot from SPI	1
Flash Descriptor Security Override	GPIO_SUS5	PU	0 - Normal Operation 1 - No supported	0
Halt Boot Strap	GPIO_SUS6	PU	1 - Normal Operation	1
ICLK、USB2.0、DDI SFR supply select	GPIO_SUS8	PU	0 - Supply is 1.25V 1 - Supply is 1.35V	0
ICLK、USB2.0、DDI SFR Bypass	GPIO_SUS9	PD	0 - No bypass 1 - Bypass with 1.05V	0



	Board_ID0	Board_ID1	Board_ID2
High	BT	RSV	RSV
Low	TV Module	RSV	RSV

Level Shift



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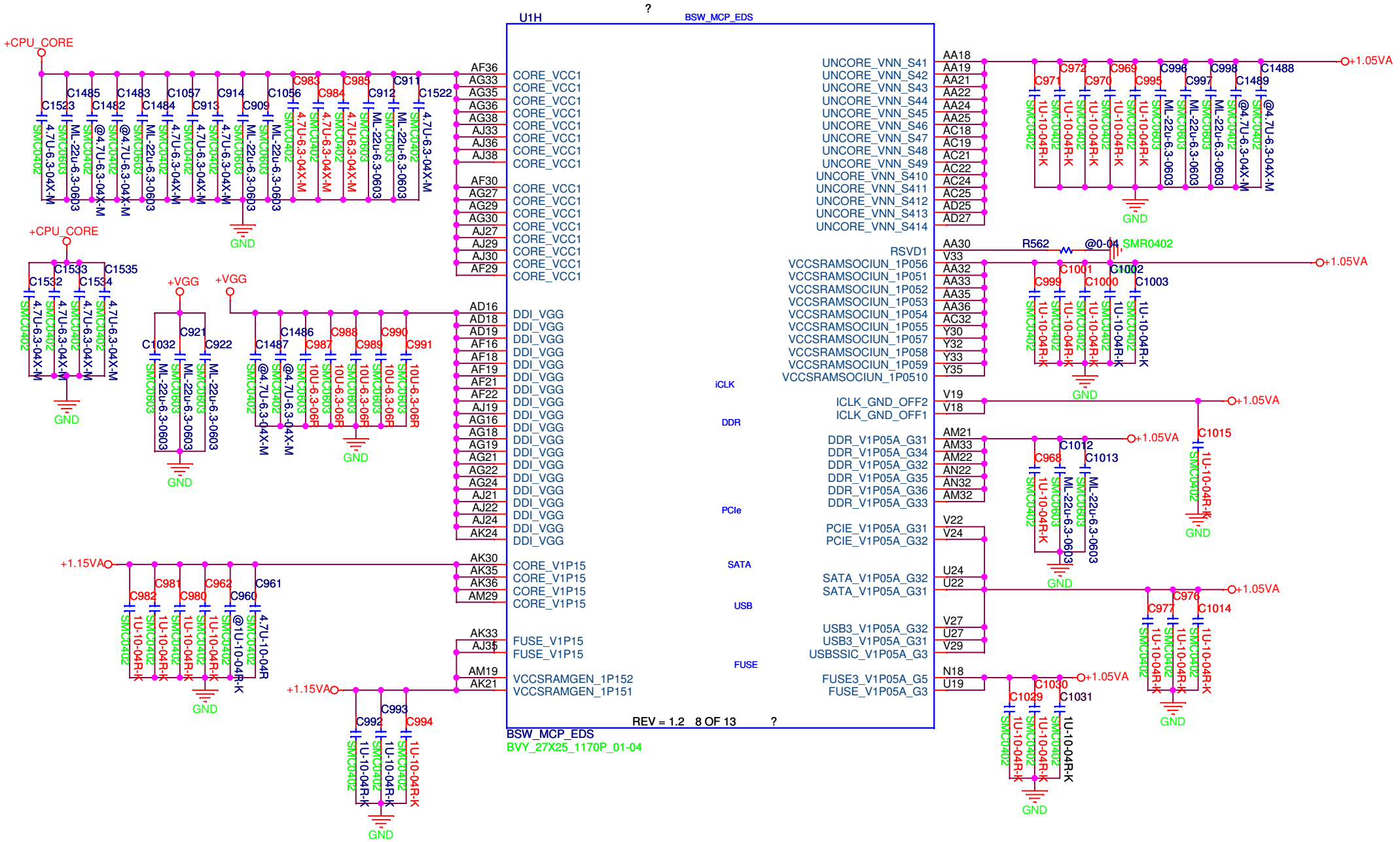
Title: Braswell

Size: A3 | Document Number: CPU GPIO and I2C | Rev: 1.1

Date: Tuesday, February 16, 2016 | Sheet 11 of 36



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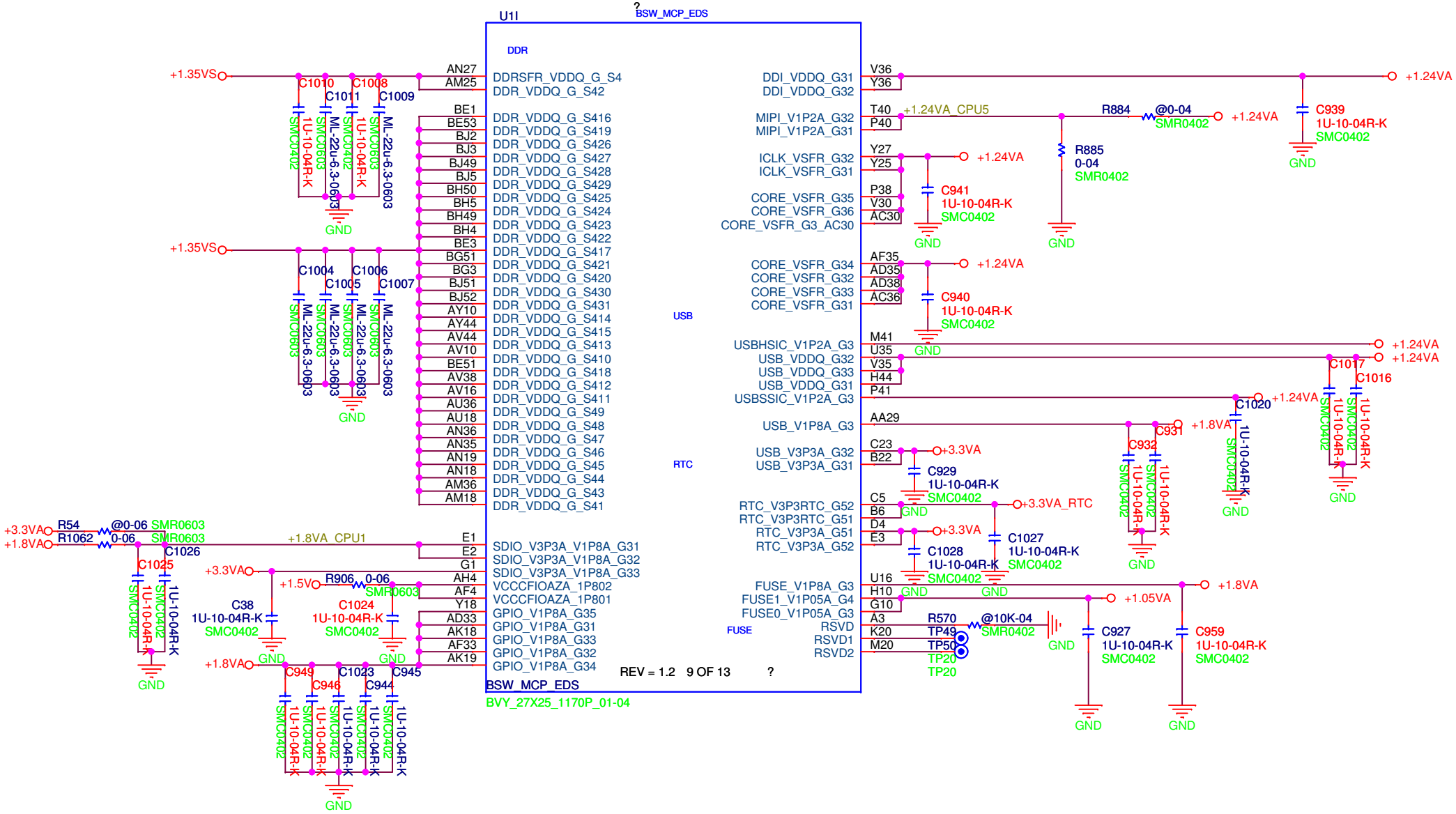
Title: Braswell

Size	Document Number	Rev
A4	CPU POWER1	1.1

Date: Tuesday, February 16, 2016 Sheet 12 of 36



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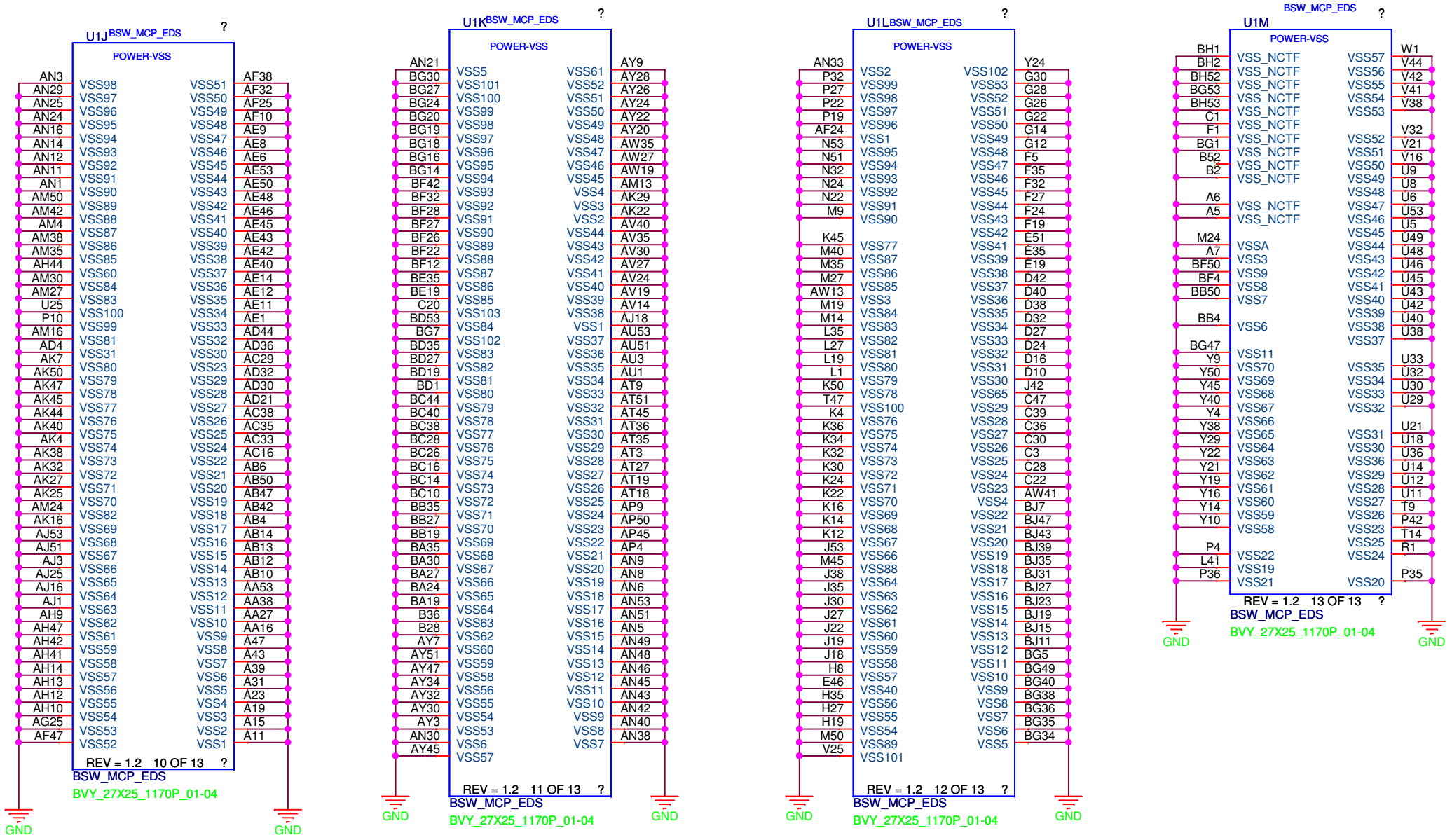
Title: Braswell

Size	Document Number	Rev
A4	CPU POWER2	1.1

Date: Tuesday, February 16, 2016 Sheet 13 of 36



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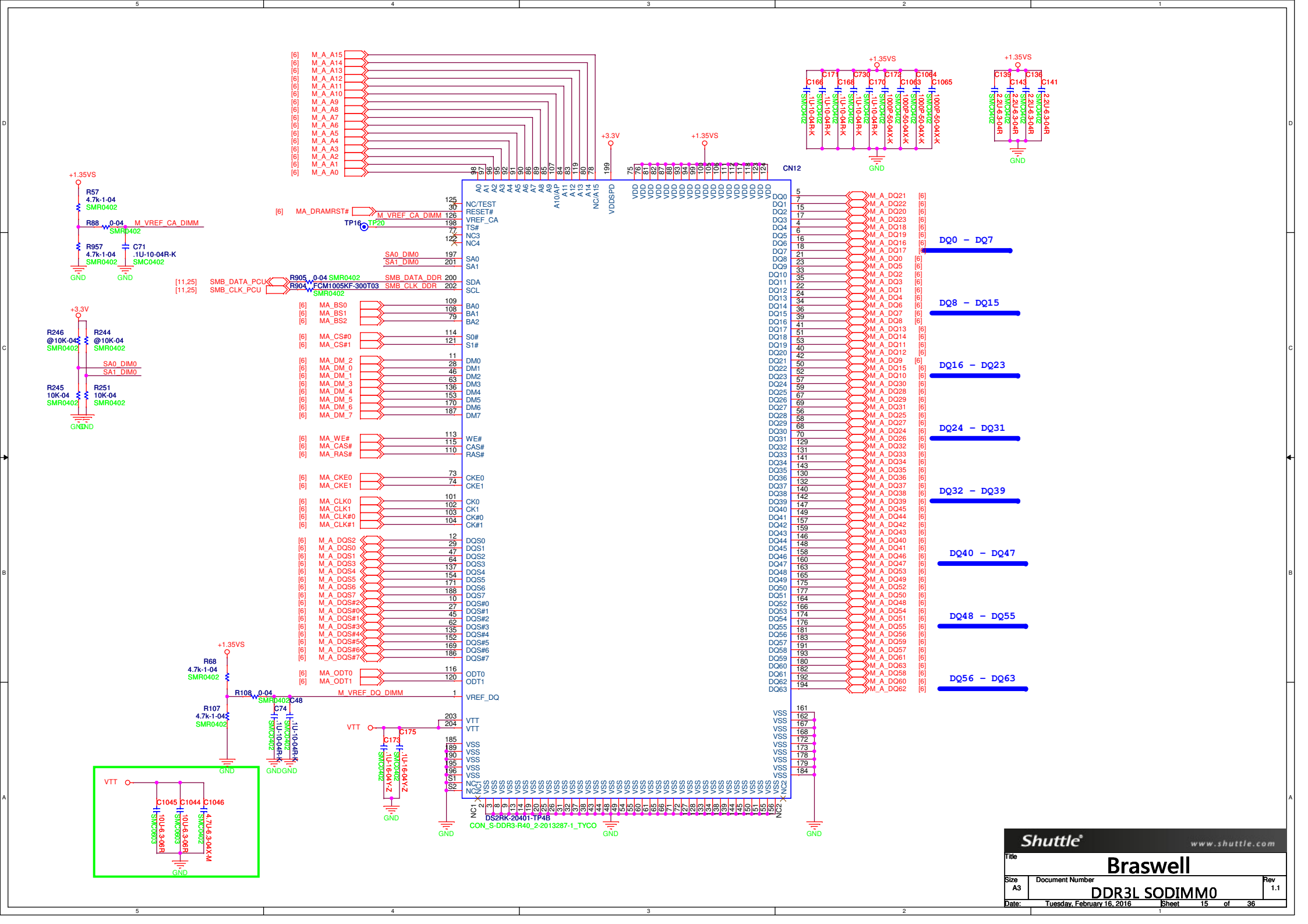
Title

Braswell

Size	Document Number	Rev
A4	CPU VCC	1.1

Date: Tuesday, February 16, 2016 Sheet 14 of 36



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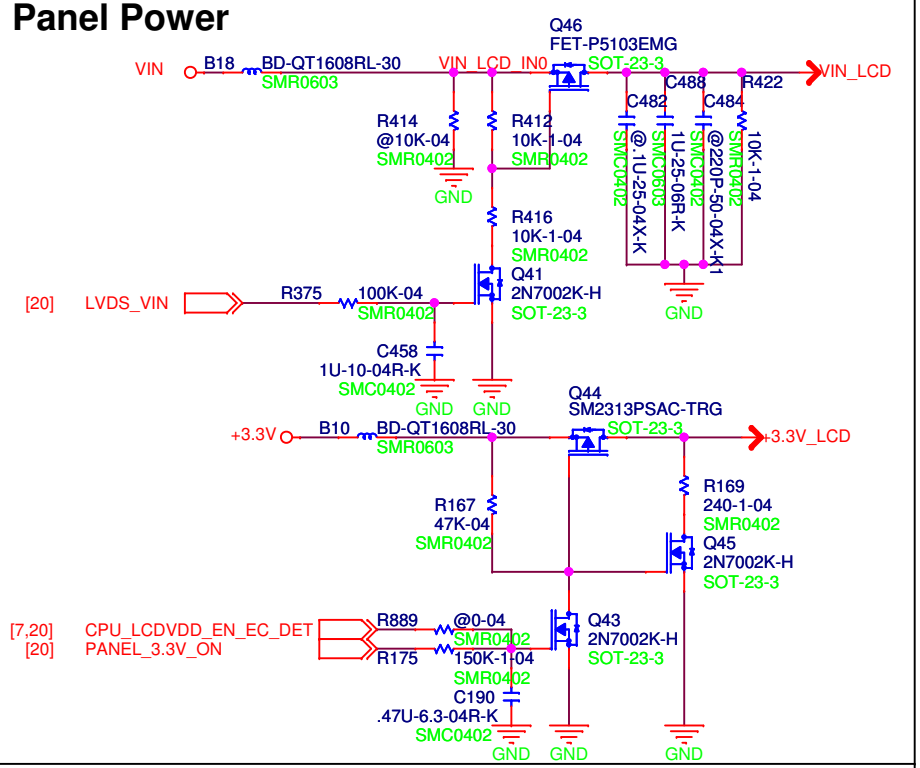
Title: Braswell

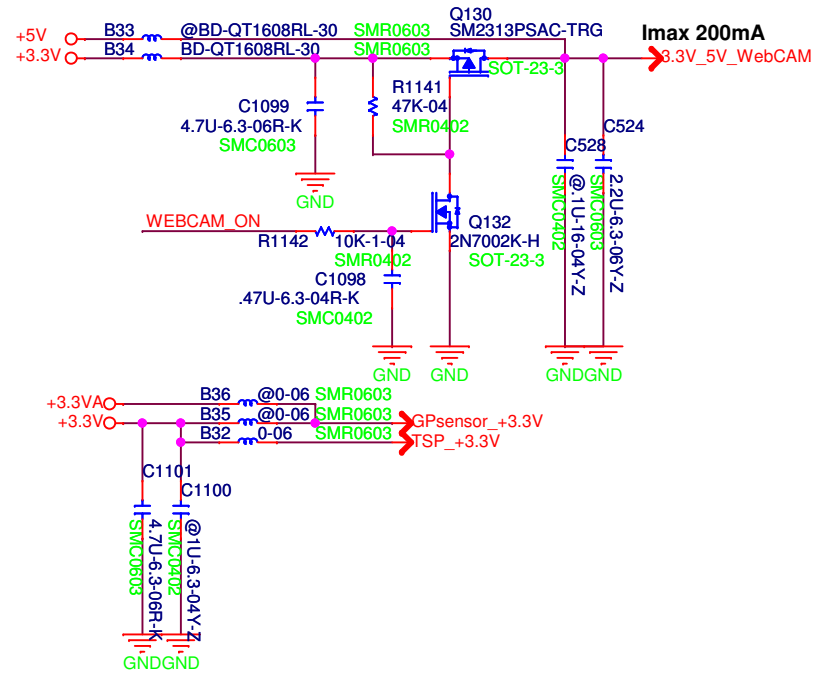
Size	Document Number	Rev
A3	DDR3L SODIMM0	1.1

Date: Tuesday, February 16, 2016 Sheet 15 of 36

Panel Power



TSP/CAM/G-SENSOR Power

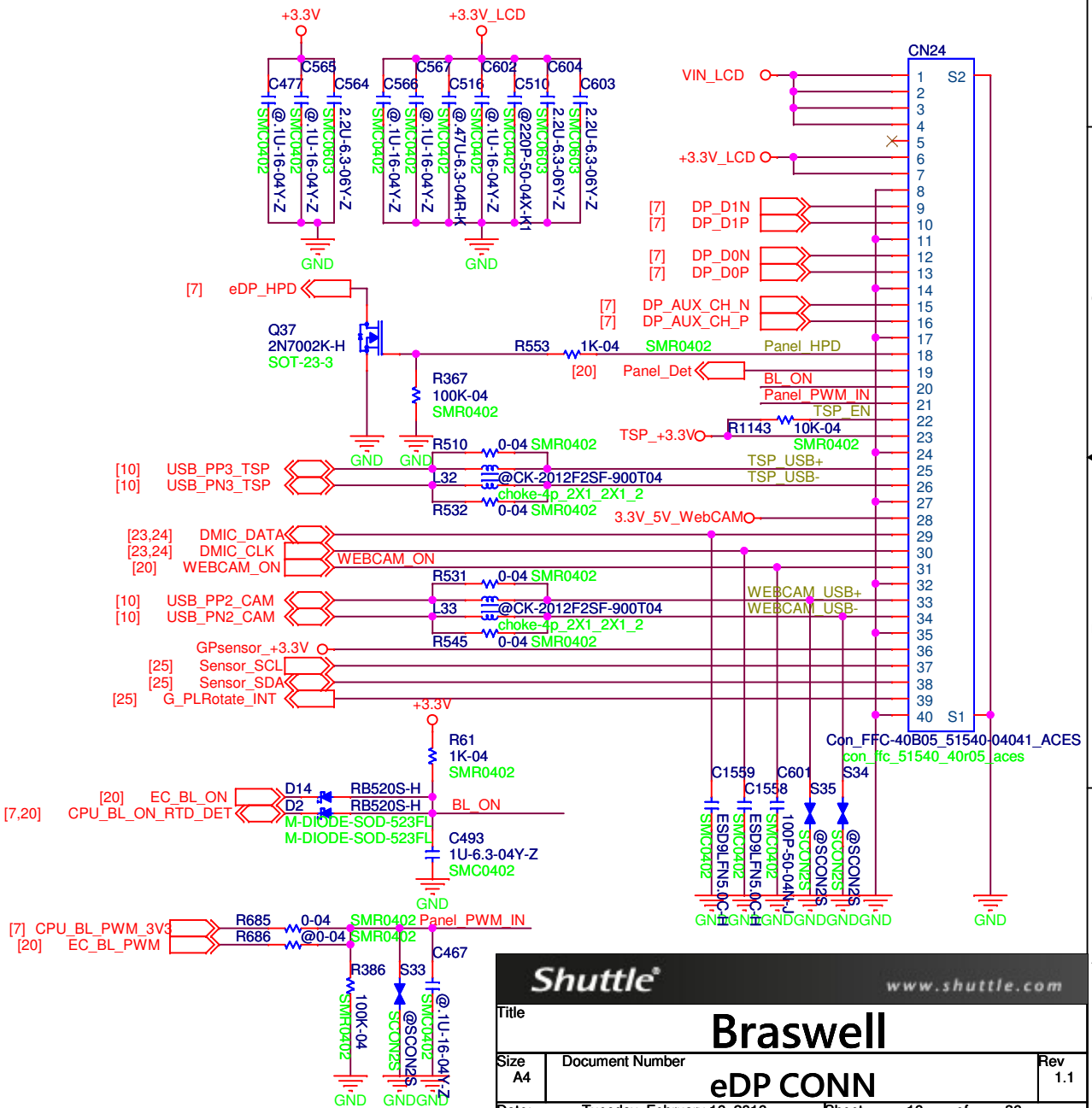


DP CONN

CO-LAYOUT OPTION

CAM+DMIC : MOUNT B34、C1099、R1141、Q130、Q132、R1142、C1098、C528、C524
CAM+DMIC : UNMOUNT B33

CAM ONLY : MOUNT B33
CAM ONLY : UNMOUNT B34、C1099、R1141、Q130、Q132、R1142、C1098、C528、C524



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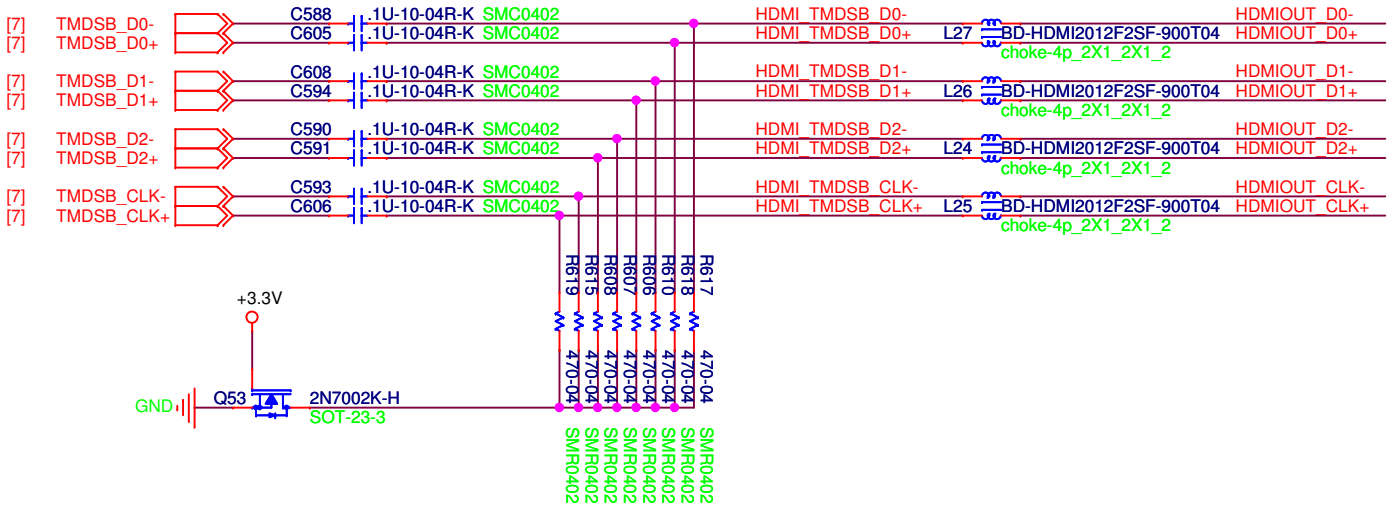
Title: Braswell

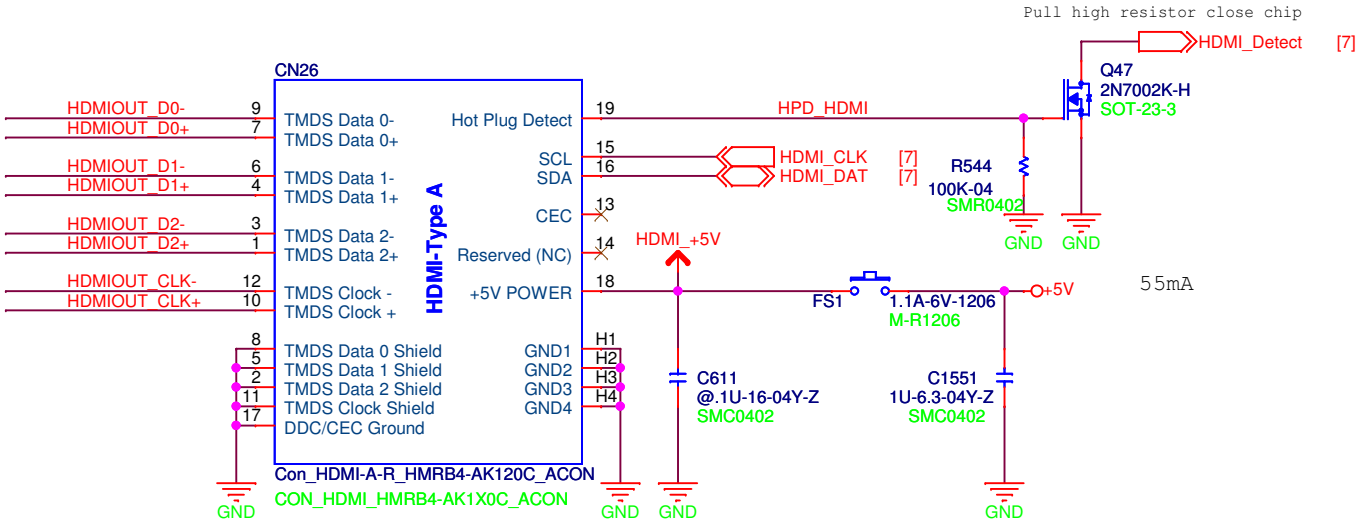
Size	Document Number	Rev
A4	eDP CONN	1.1

Date: Tuesday, February 16, 2016 Sheet 16 of 36

HDMI ESD Protection



HDMI CONN



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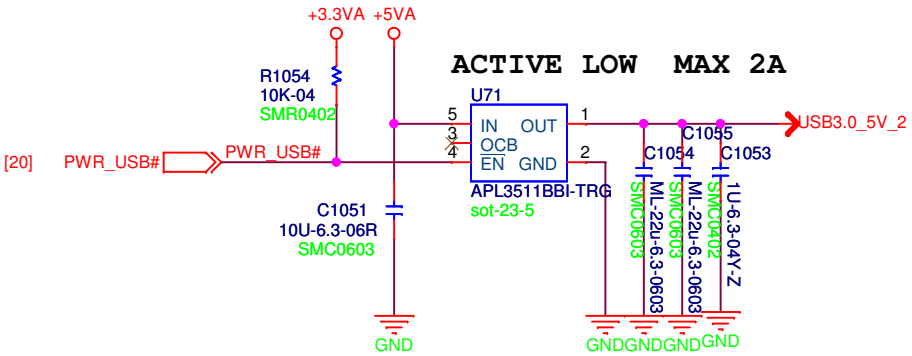
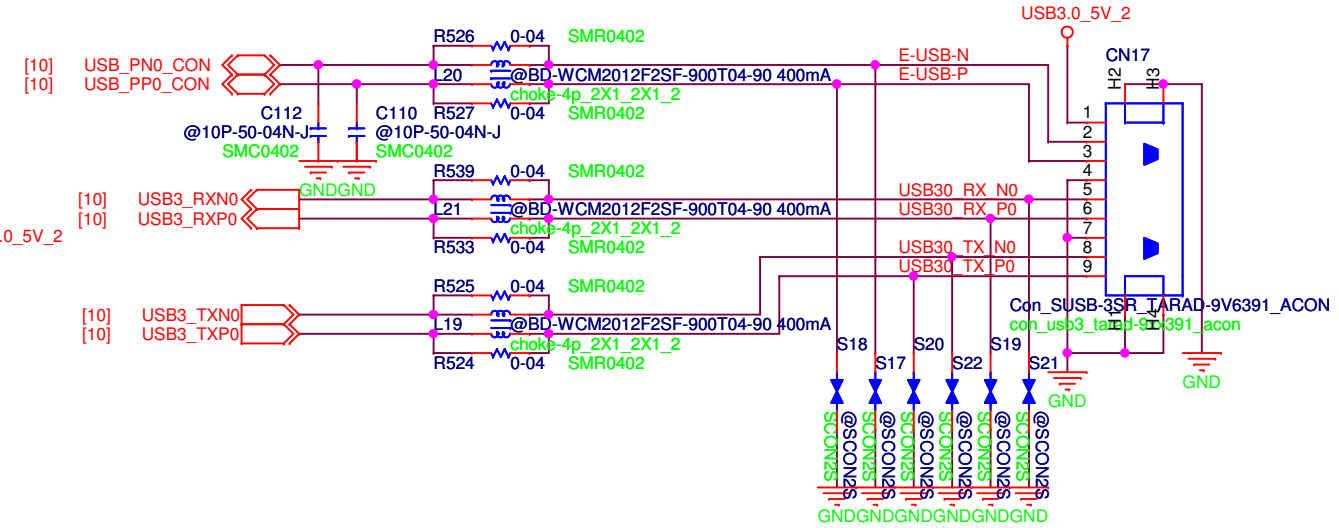
Title	Braswell	
Size A4	Document Number HDMI/PWR SW	Rev 1.1
Date: Tuesday, February 16, 2016	Sheet 17 of 36	

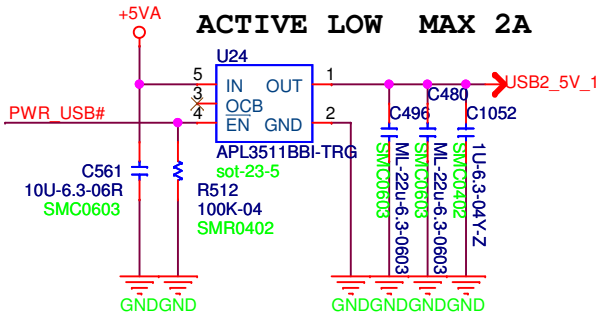
USB3.0 (Left Side)

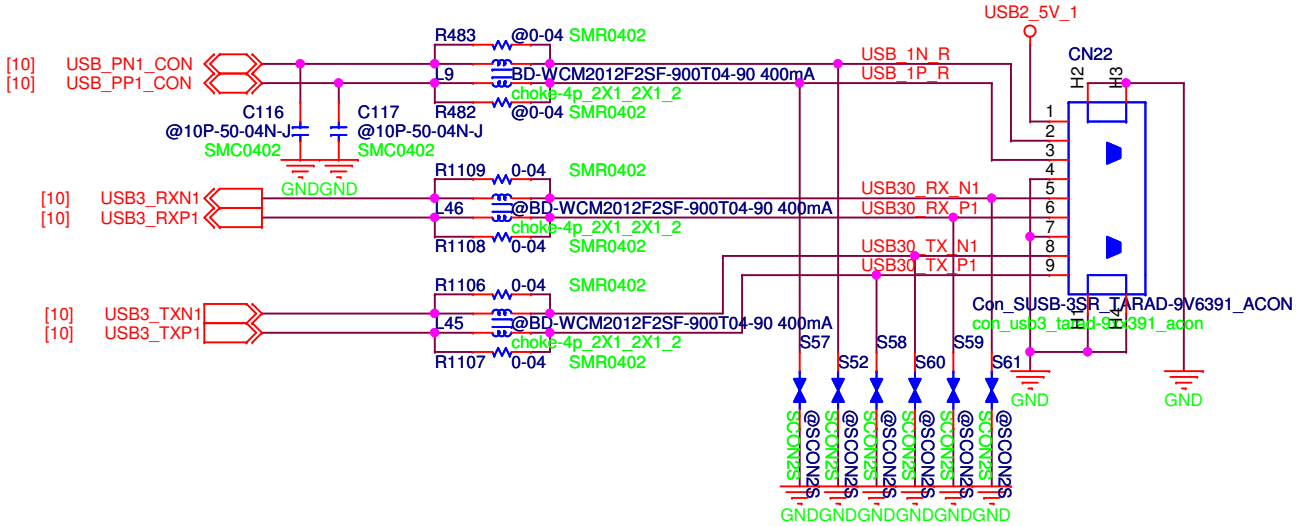
USB Port Configration	
USB 0	USB 3.0 Connector
USB 1	USB 3.0 Connector
USB 2	Webcam
USB 3	TSP
USB 4	Bluetooth





USB3.0 (Left Side)





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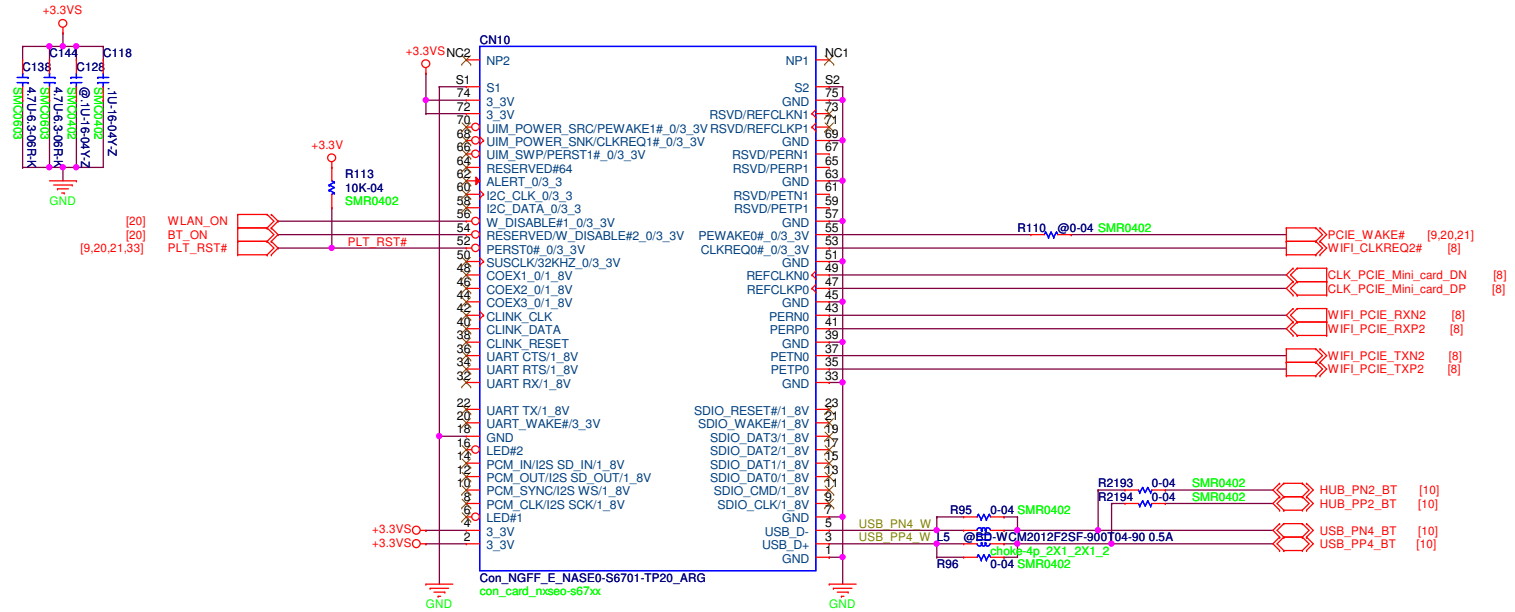
Title: Braswell

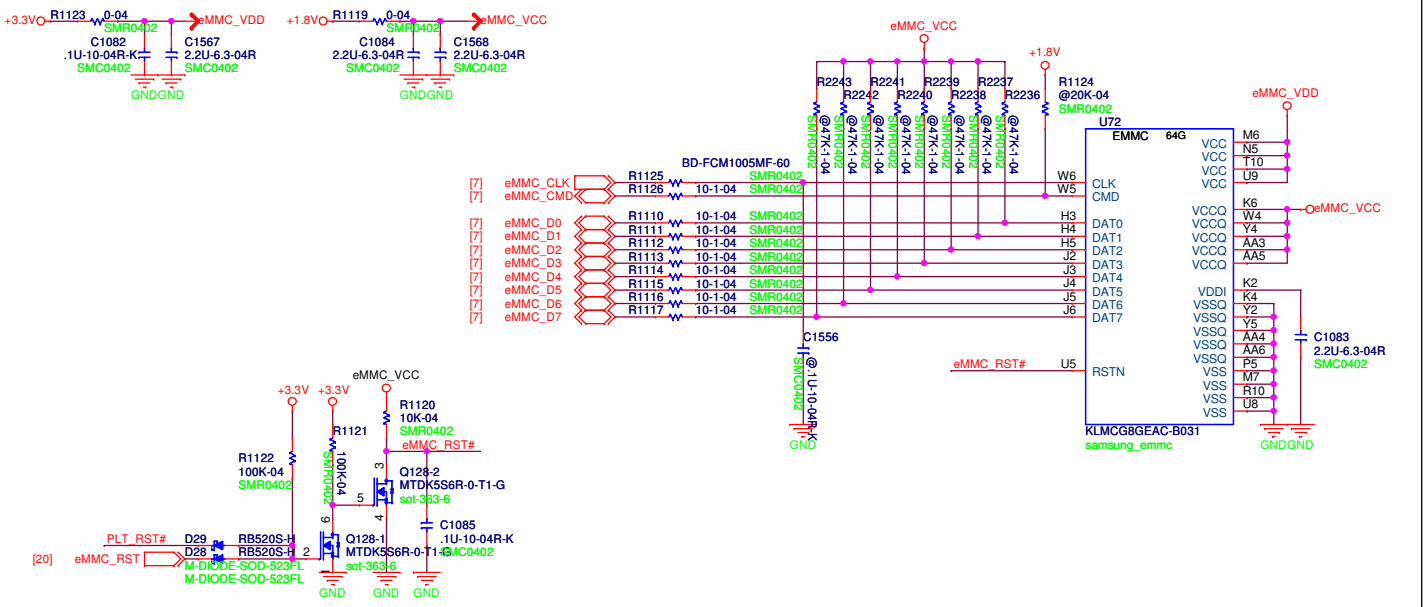
Size	Document Number	Rev
A4	USB HUB/USB CONN	1.1

Date: Tuesday, February 16, 2016 Sheet 18 of 36

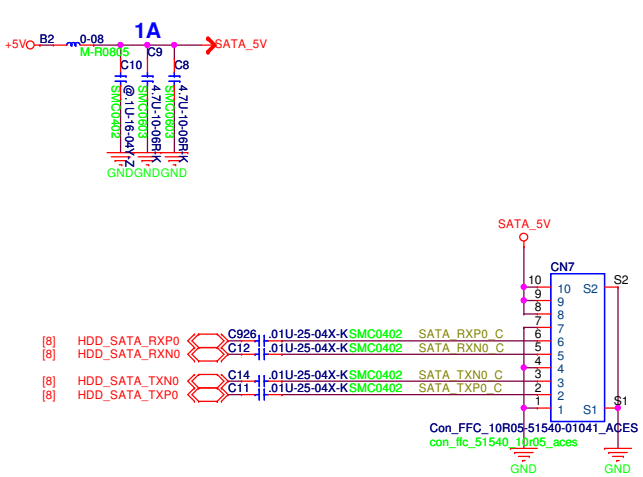
NGFF CONN



eMMC



SATA-HDD



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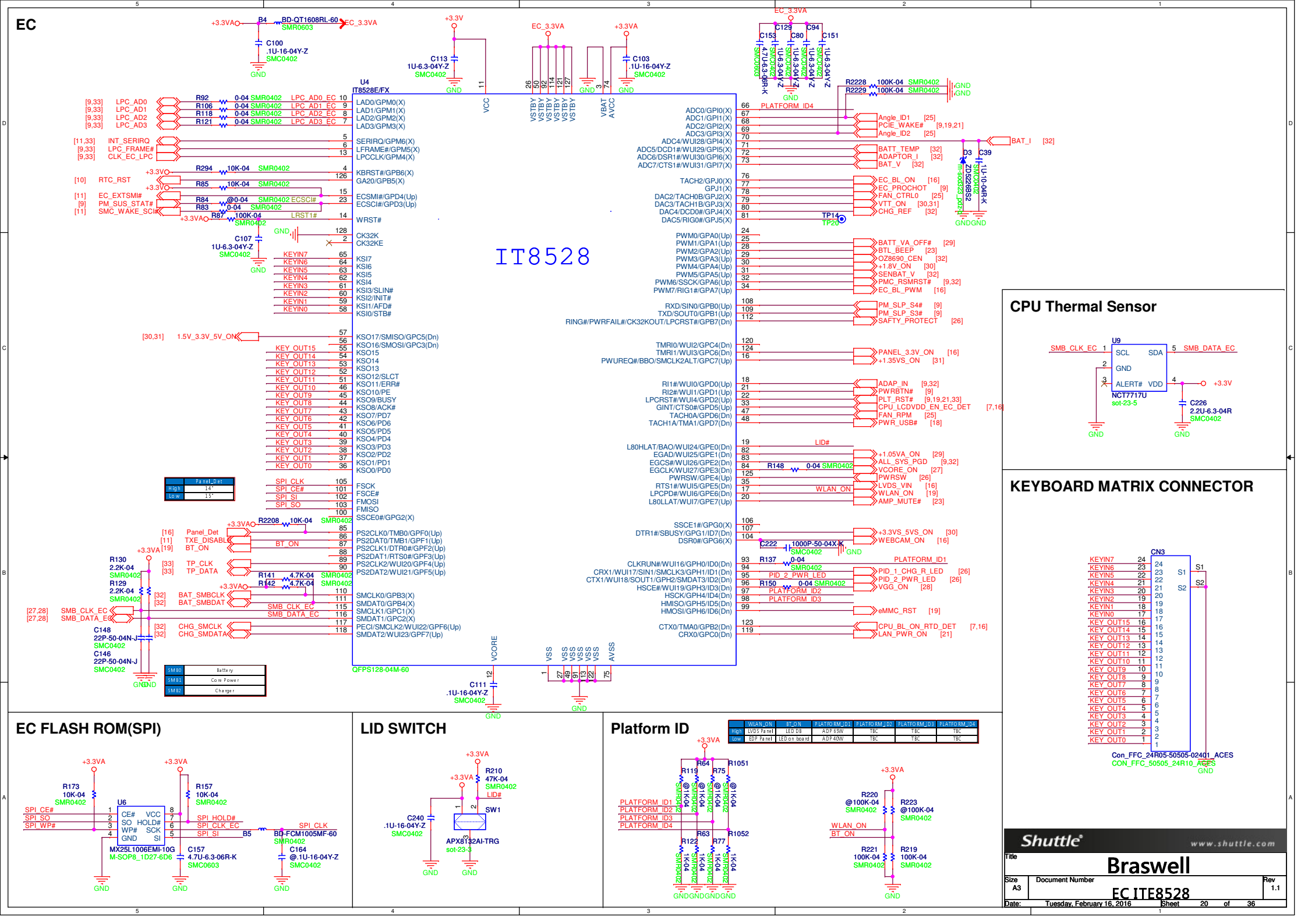
Title: Braswell

Size	Document Number	Rev
A3	HDD/eMMC/M.2(NGFF)	1.1

Date: Tuesday, February 16, 2016 Sheet 19 of 36

EC



CPU Thermal Sensor

KEYBOARD MATRIX CONNECTOR

EC FLASH ROM(SPI)

LID SWITCH

Platform ID

	WLAN_ON	BT_ON	PLATFORM_ID1	PLATFORM_ID2	PLATFORM_ID3	PLATFORM_ID4
High	LVDS Panel	LED DB	ADP 65W	TBC	TBC	TBC
Low	EDP Panel	LED on board	ADP 40W	TBC	TBC	TBC

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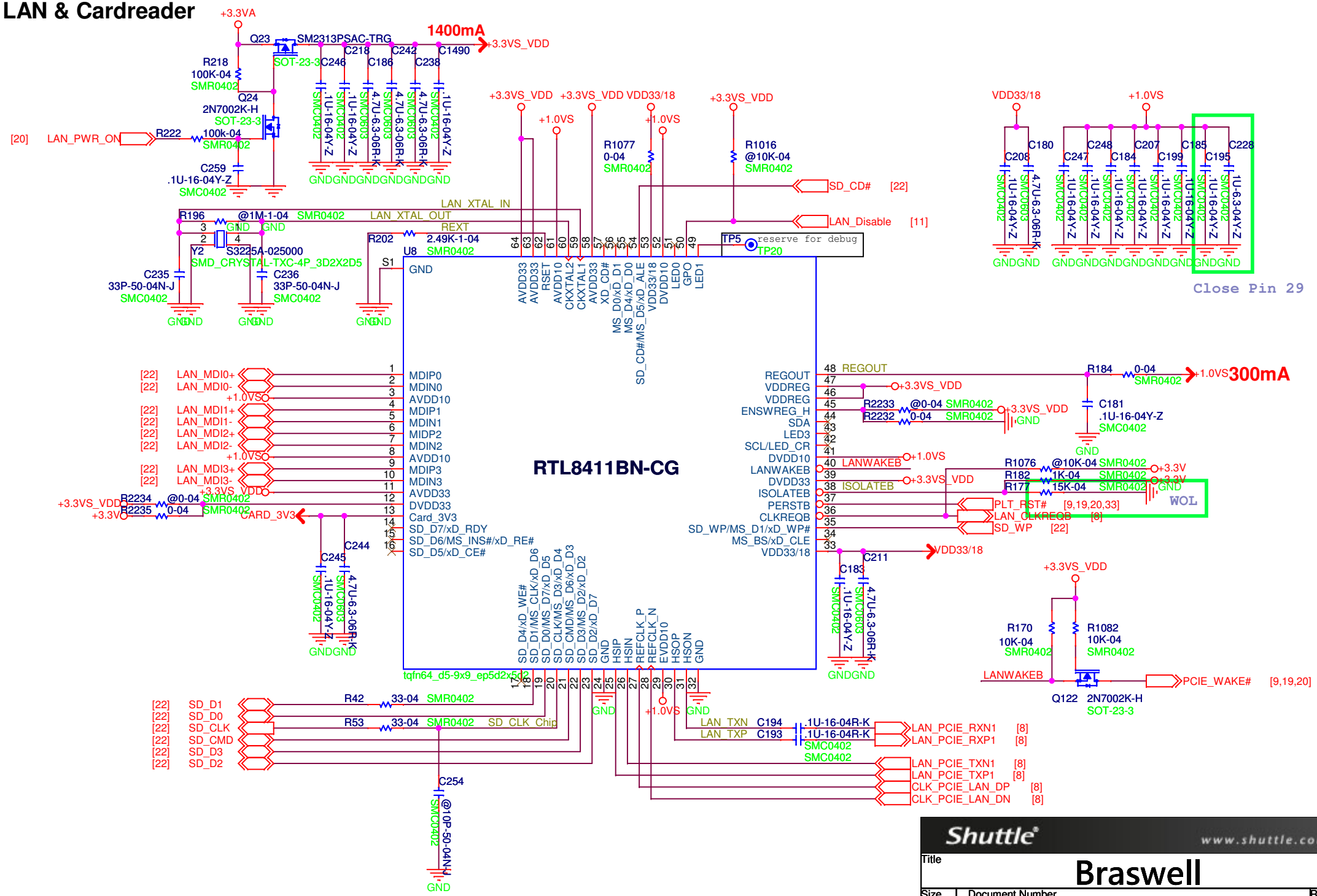
Title: Braswell

Size	Document Number	Rev
A3	EC ITE8528	1.1

Date: Tuesday, February 16, 2016 Sheet 20 of 36

LAN & Cardreader



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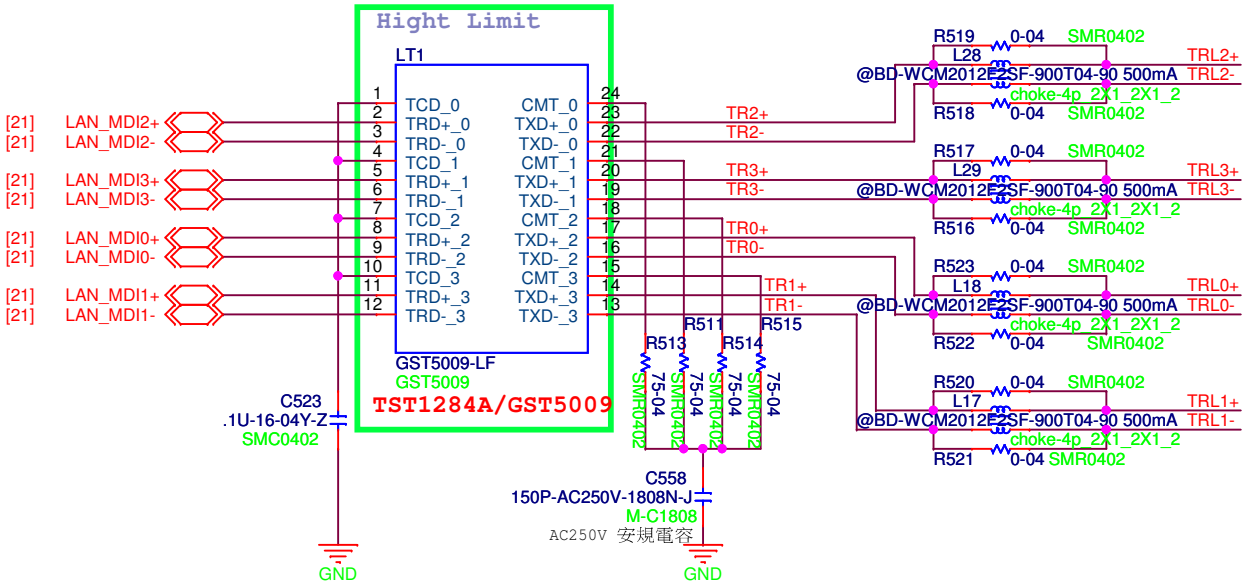
Title: Braswell

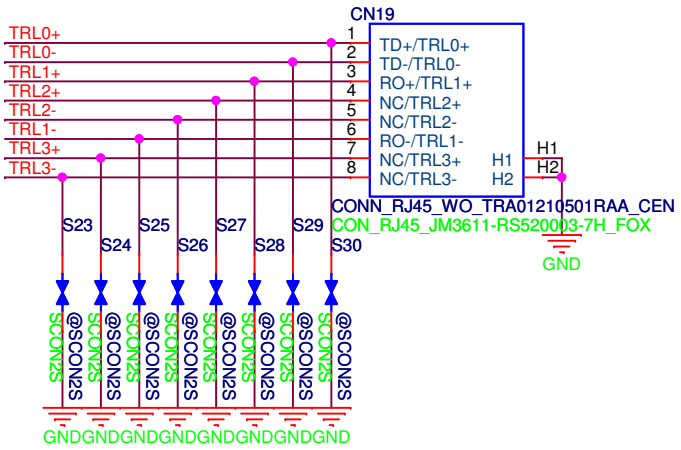
Size	Document Number	Rev
A4	RTL8411BN-CG	1.1

Date: Tuesday, February 16, 2016 Sheet 21 of 36

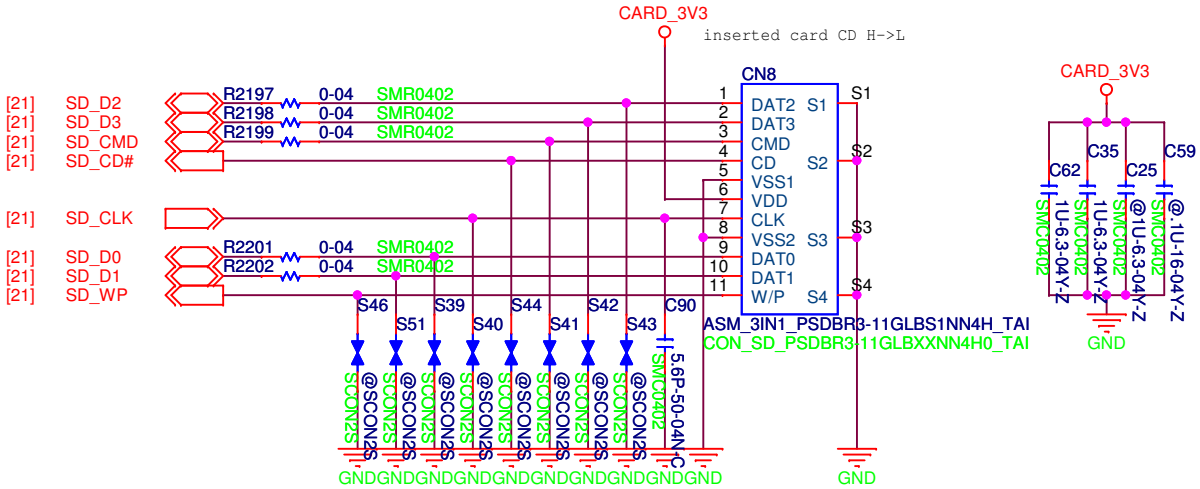
Transformer



RJ45 CONN



Cardreader Connector



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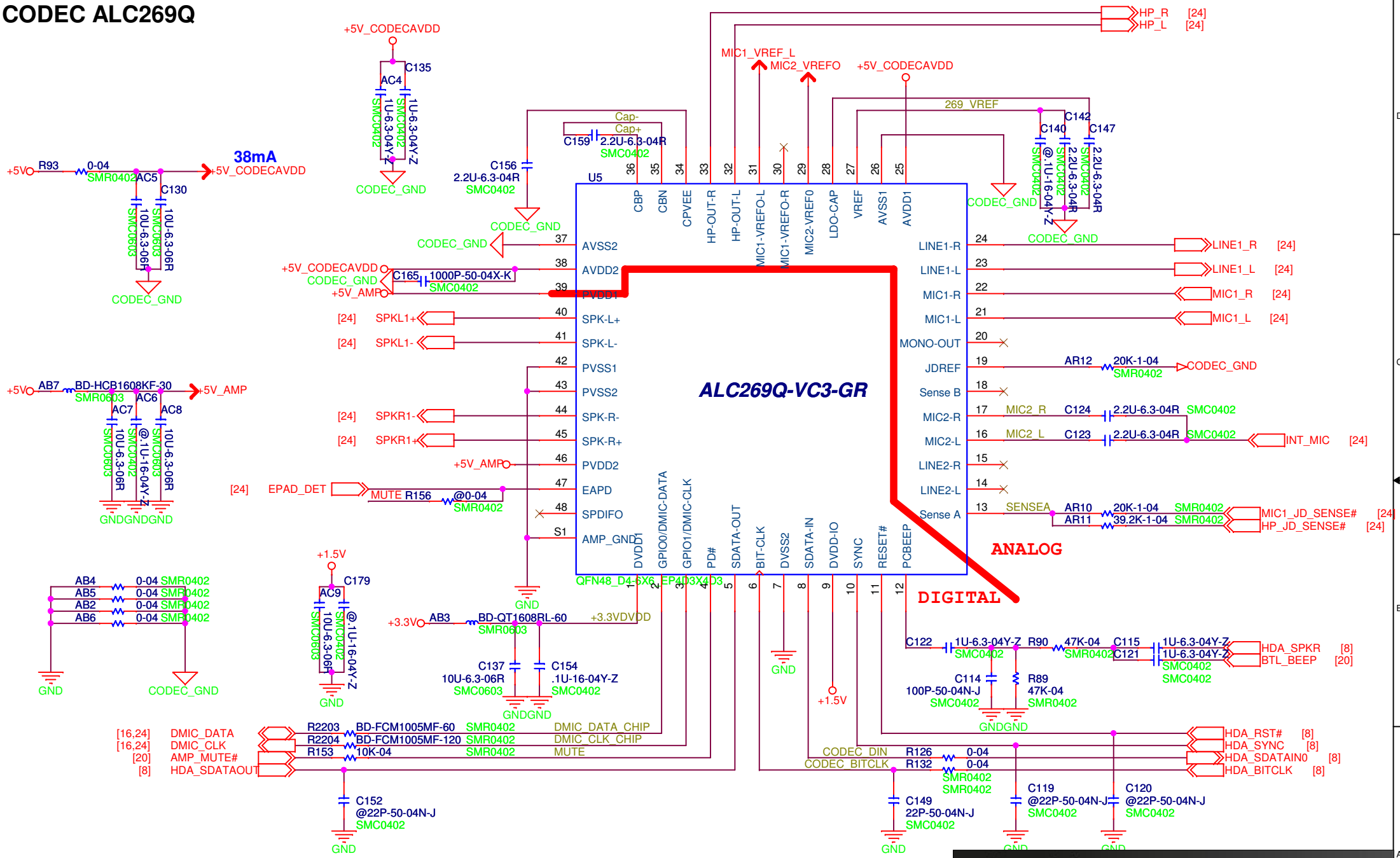
Title: Braswell

Size	Document Number	Rev
A4	RJ45 CONN/ SD Card Socket	1.1

Date: Tuesday, February 16, 2016 Sheet 22 of 36

CODEC ALC269Q



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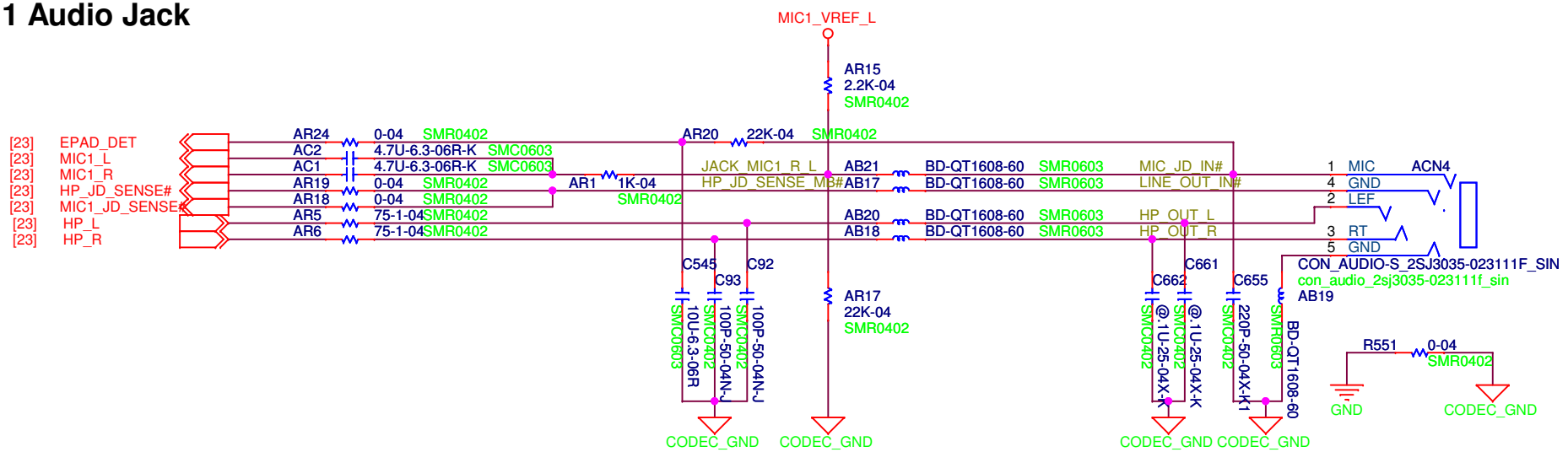
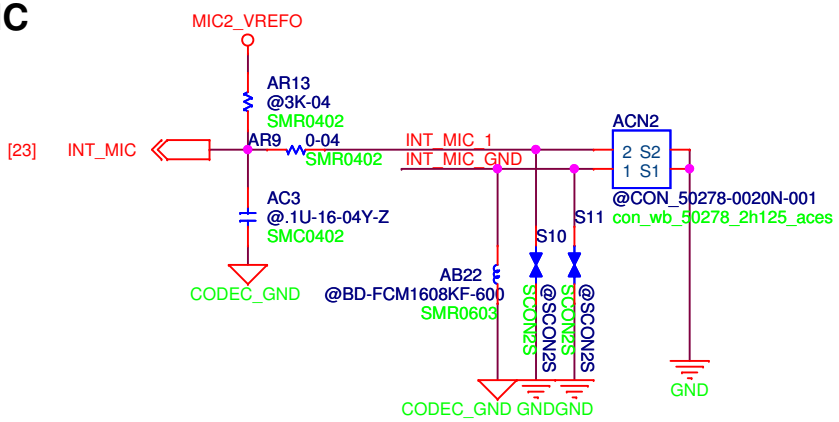
Title	Braswell	
Size A4	Document Number AUDIO CODEC(ALC269Q)	Rev 1.1
Date: Tuesday, February 16, 2016	Sheet 23 of 36	

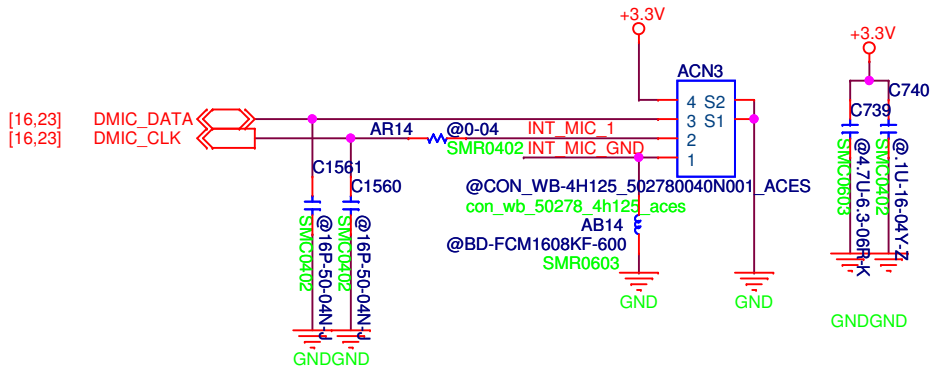
2 IN 1 Audio Jack



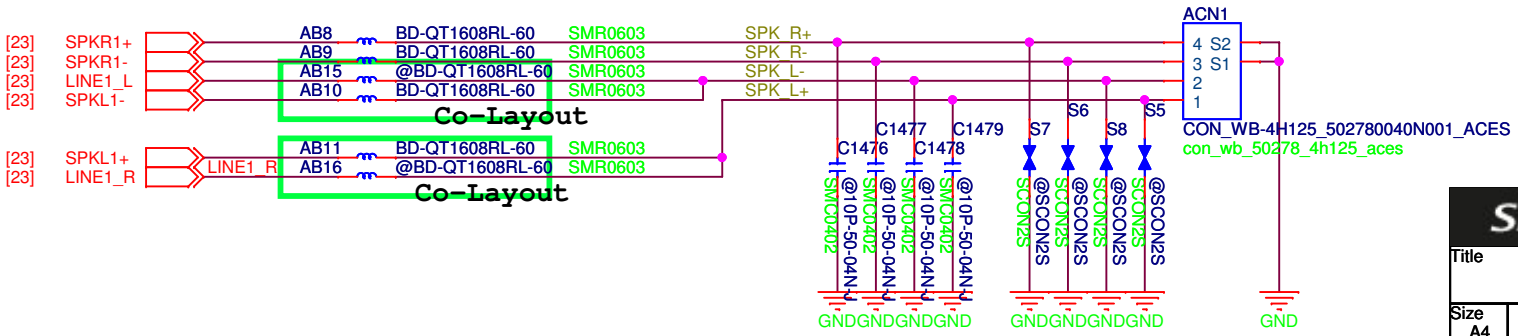
INT_MIC



Digital Mic



INT_SPEAKER



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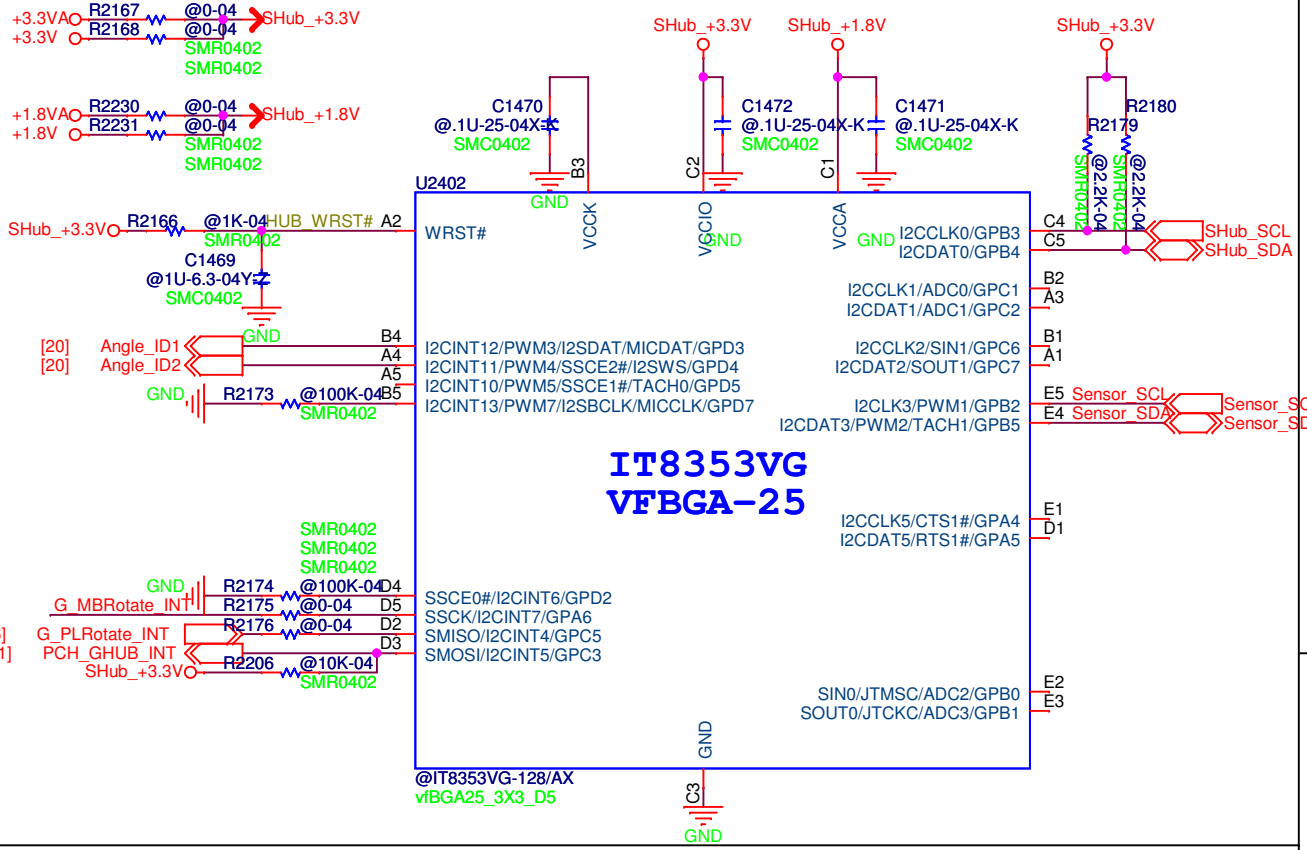
Title: **Braswell**

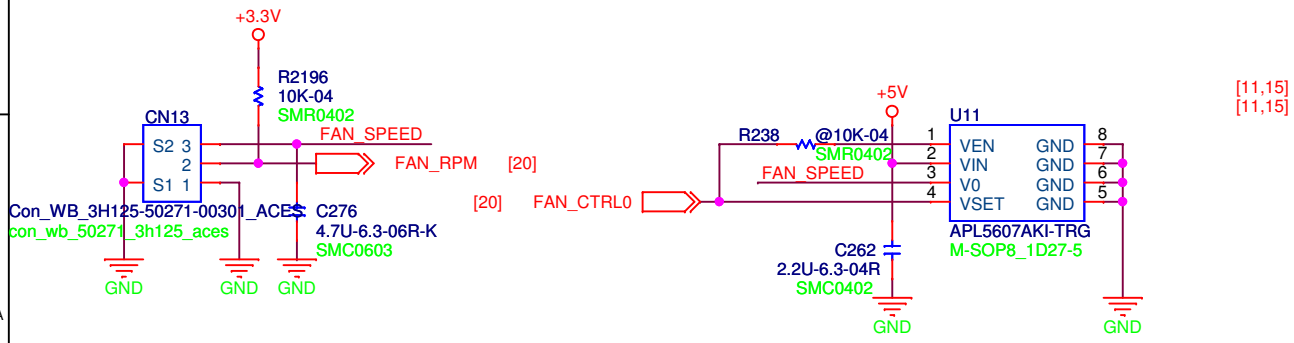
Size	Document Number	Rev
A4	Audio Jack/MIC/Speaker	1.1

Date: Tuesday, February 16, 2016 Sheet 24 of 36

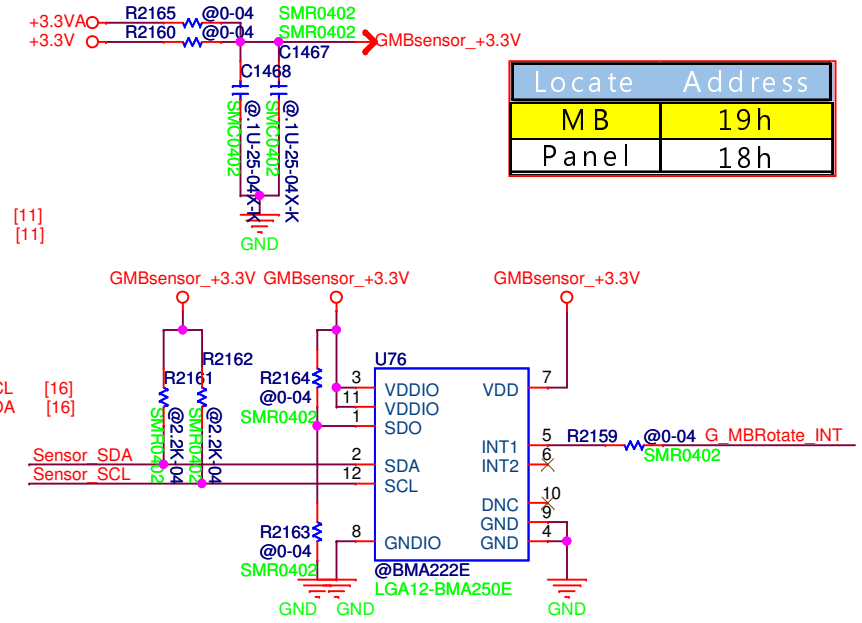
SENSOR HUB



FAN CONTROLLER

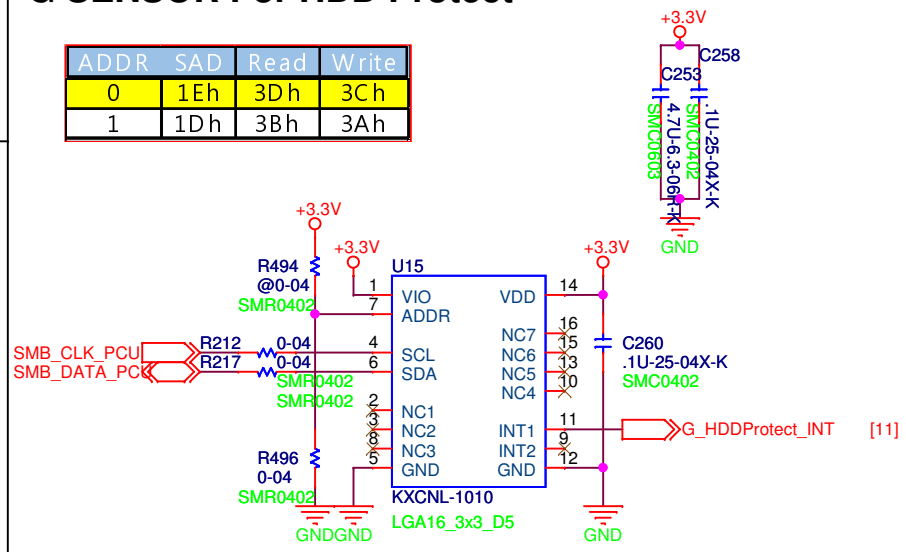


G SENSOR For Rotate



G SENSOR For HDD Protect

ADDR	SAD	Read	Write
0	1Eh	3Dh	3Ch
1	1Dh	3Bh	3Ah



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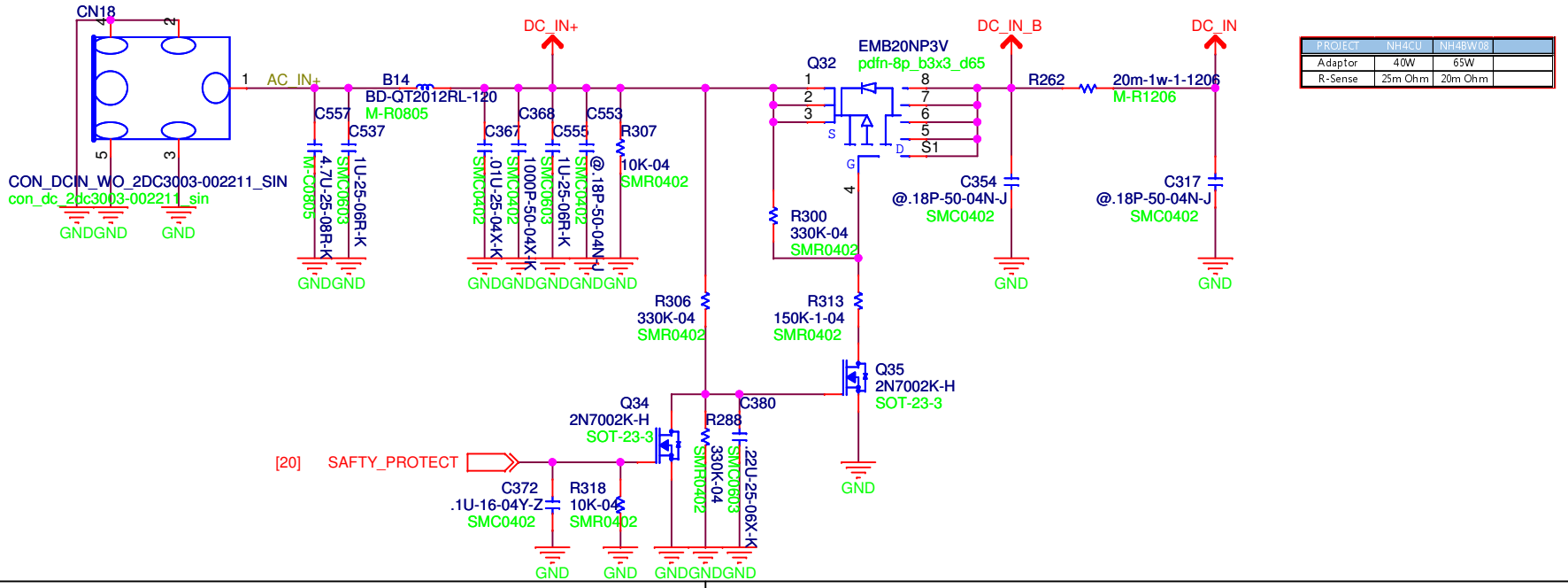
Title: **Braswell**

Size	Document Number	Rev
A4	Sensor Hub/G-sensor/ Fan	1.1

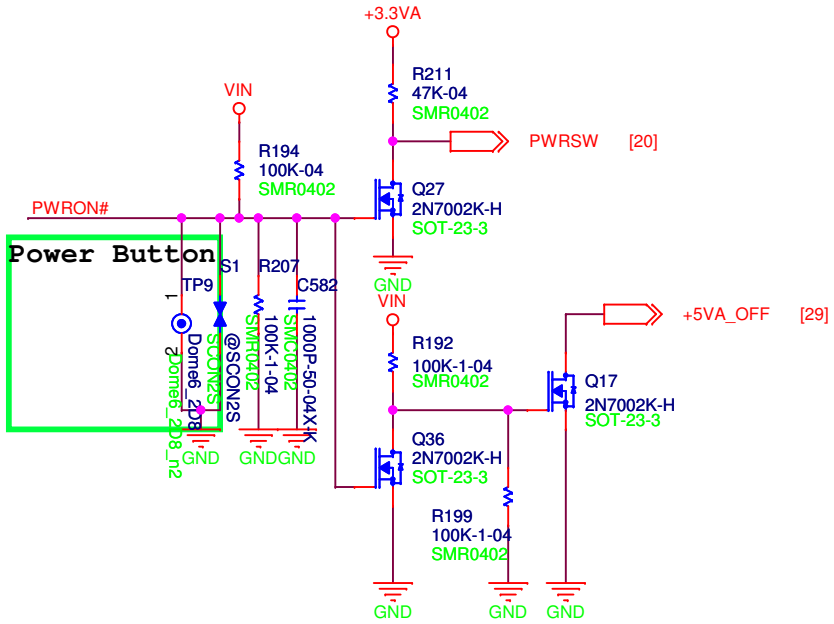
Date: Tuesday, February 16, 2016 Sheet 25 of 36

DC IN

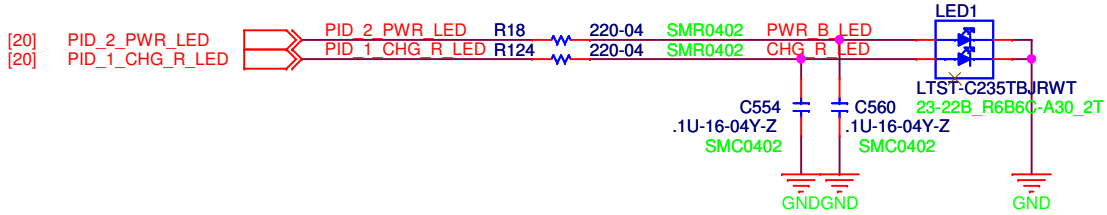


PROJECT	NH4CU	NH4BW08	
Adaptor	40W	65W	
R-Sense	25m Ohm	20m Ohm	

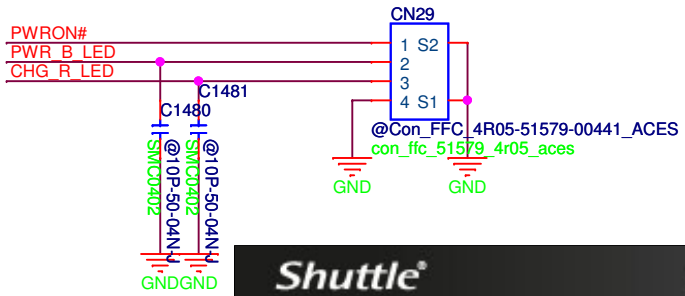
PWR SW



Charge LED



Power Board



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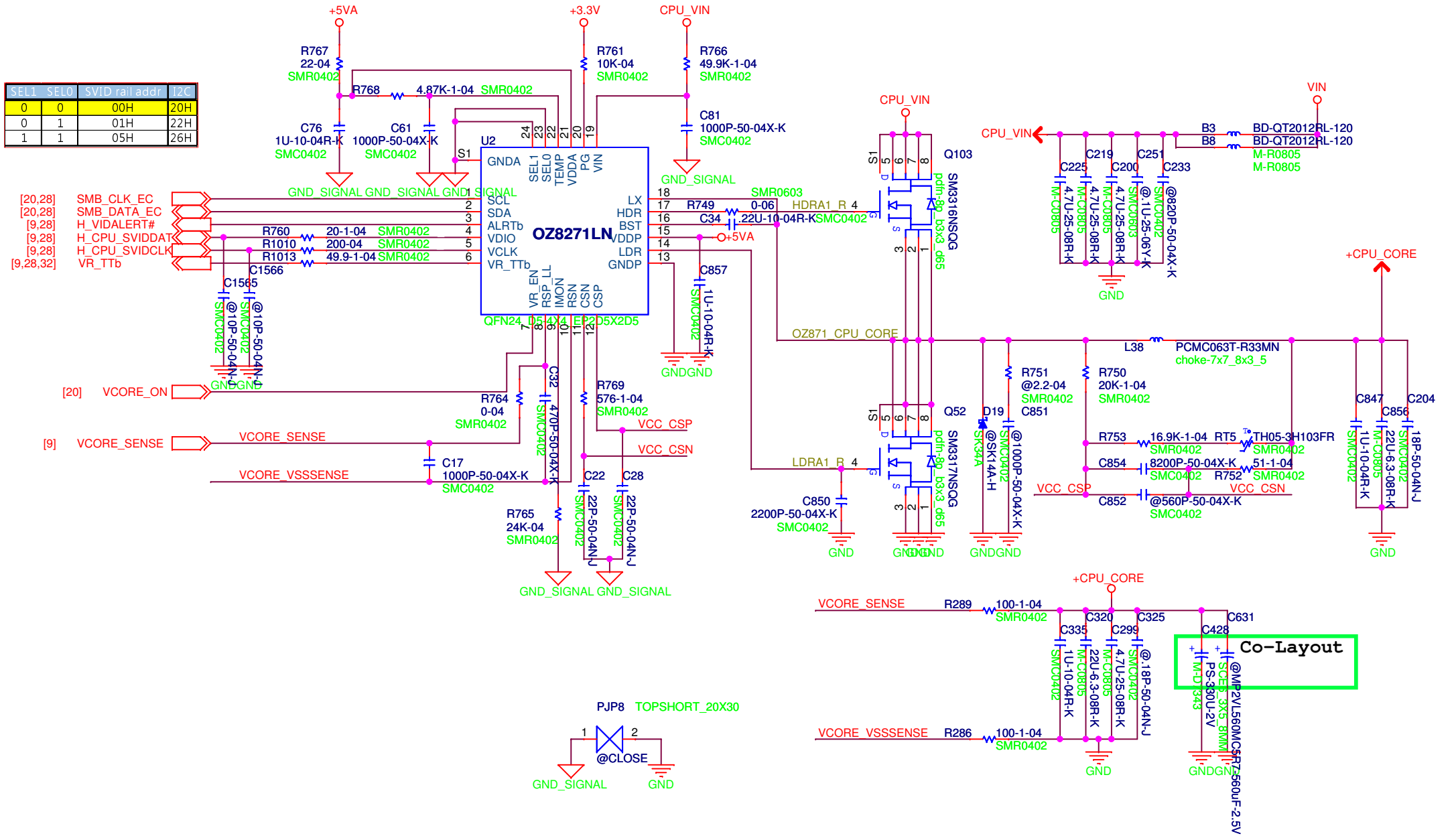
Title: **Braswell**

Size	Document Number	Rev
A4	DC IN/TPM	1.1

Date: Tuesday, February 16, 2016 Sheet 26 of 36

CPU CORE POWER



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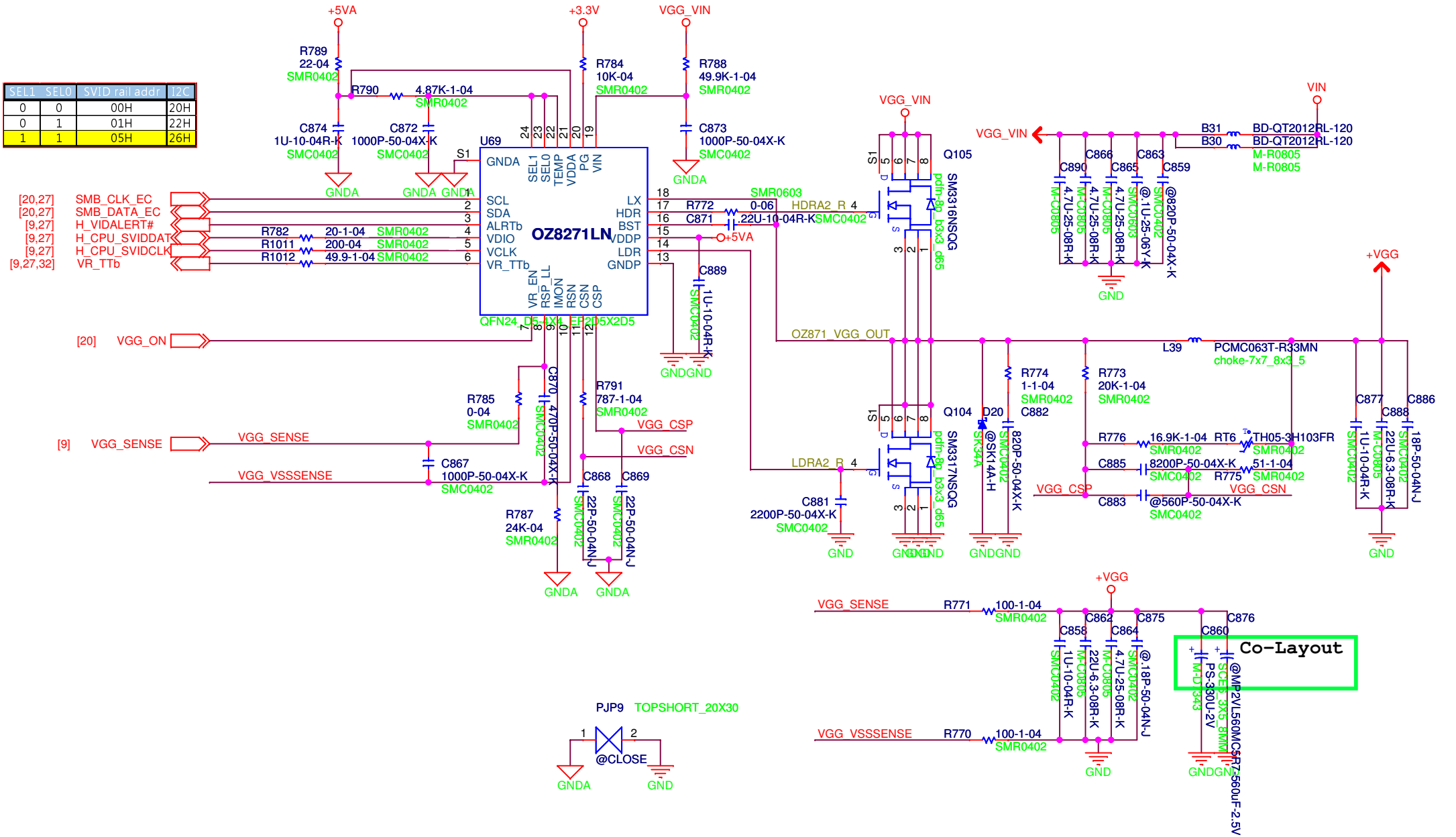
Title	Braswell		
Size A4	Document Number CPU CORE (OZ8271)		Rev 1.1
Date: Tuesday, February 16, 2016	Sheet 27 of 36		

VGG POWER

SEL1	SEL0	SVID rail addr	I2C
0	0	00H	20H
0	1	01H	22H
1	1	05H	26H



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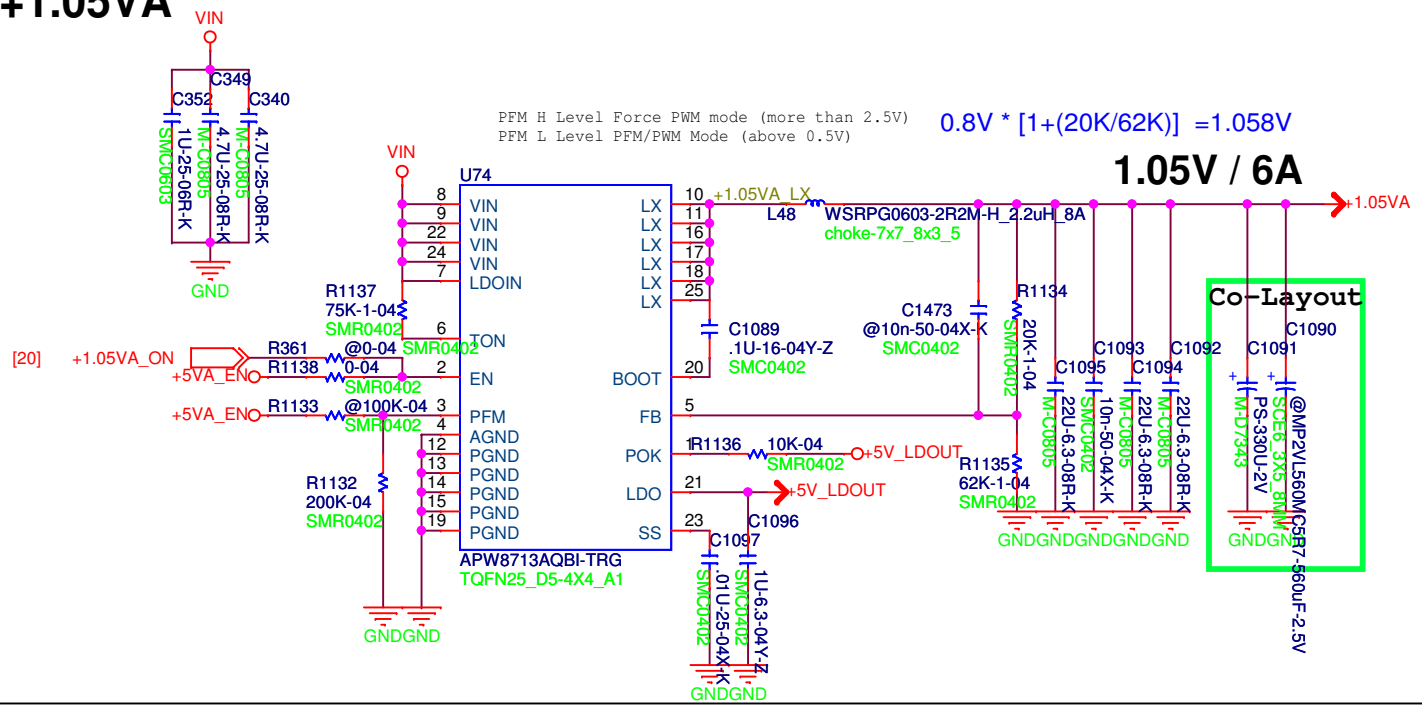
Title: Braswell

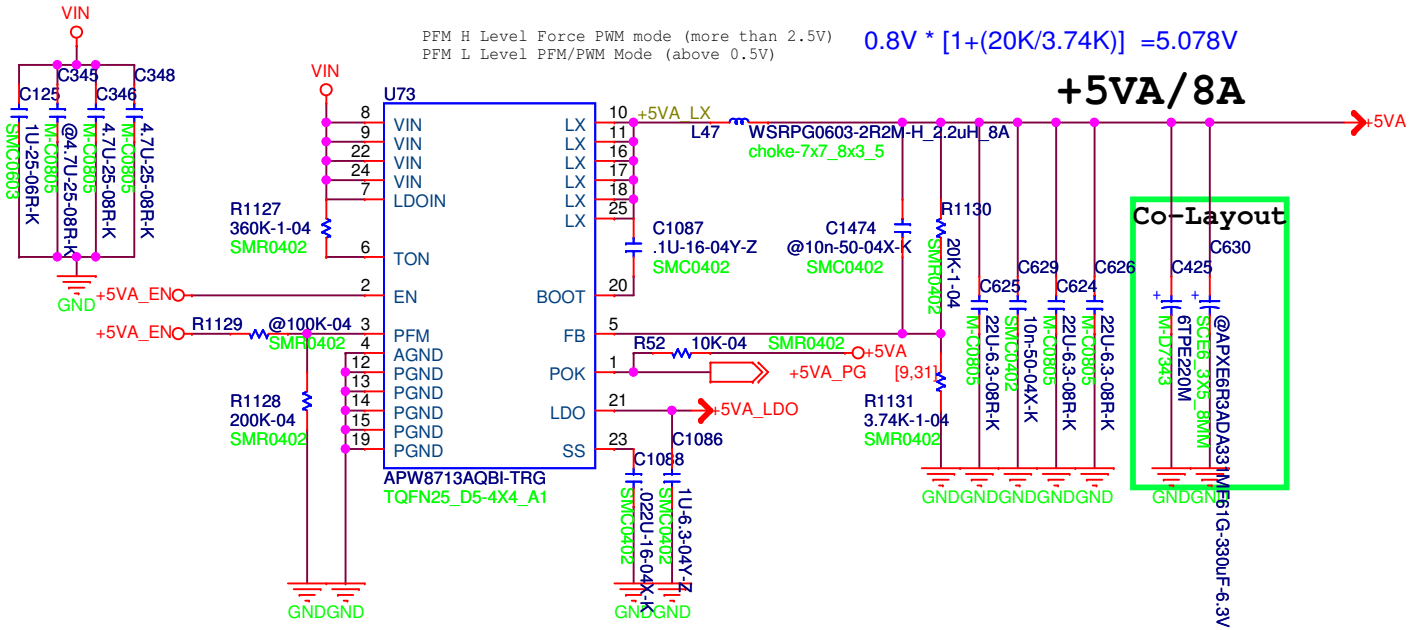
Size	Document Number	Rev
A4	+VGG CORE (OZ8271)	1.1

Date: Tuesday, February 16, 2016 Sheet 28 of 36

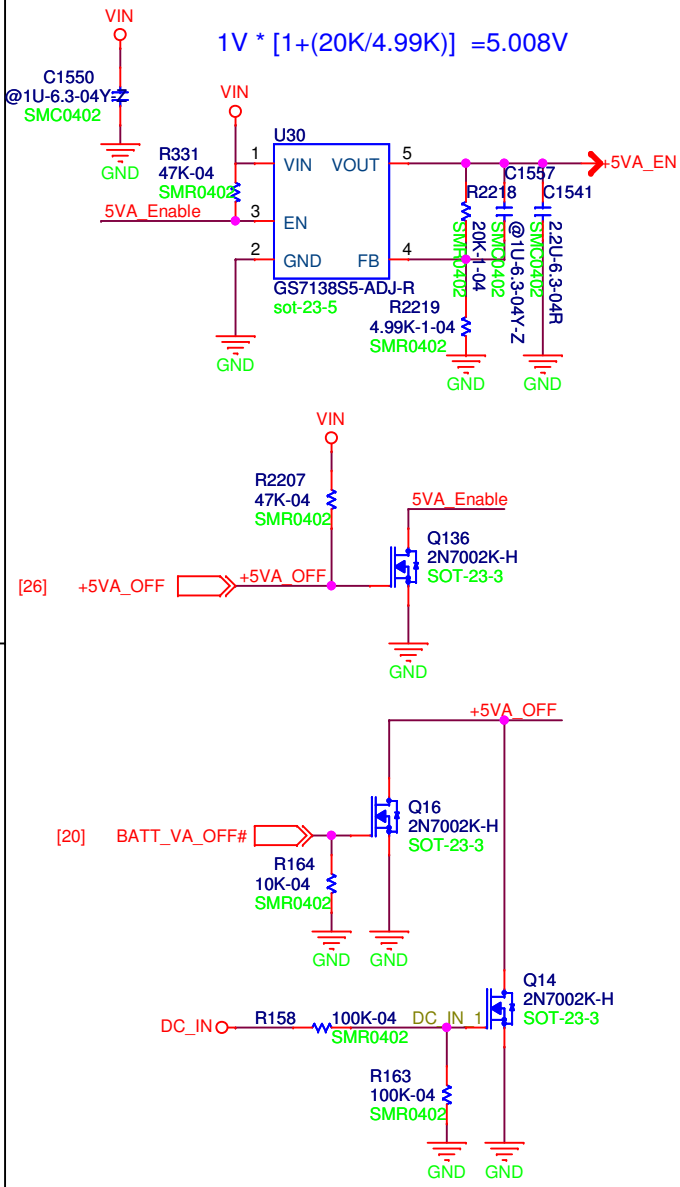
+1.05VA



+5VA



Power Save Function



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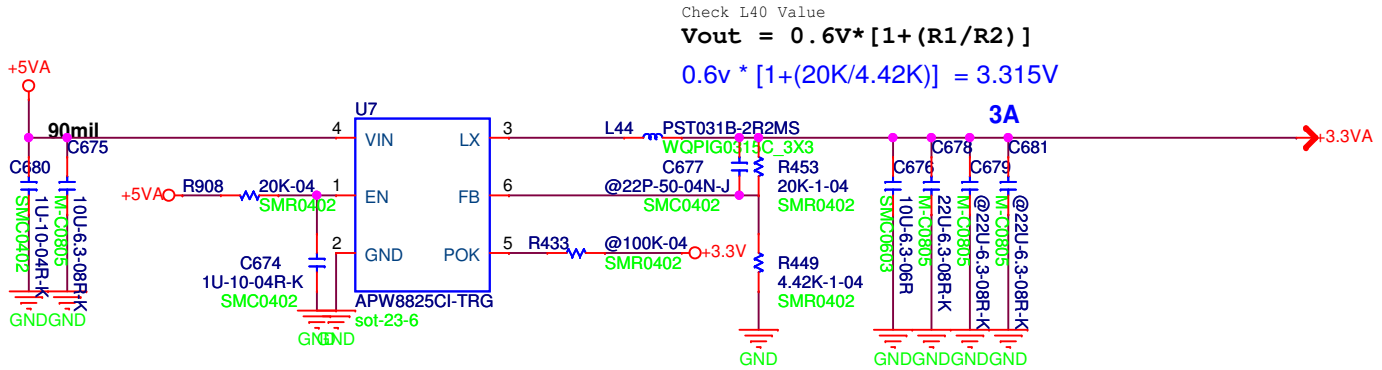
Title

Braswell

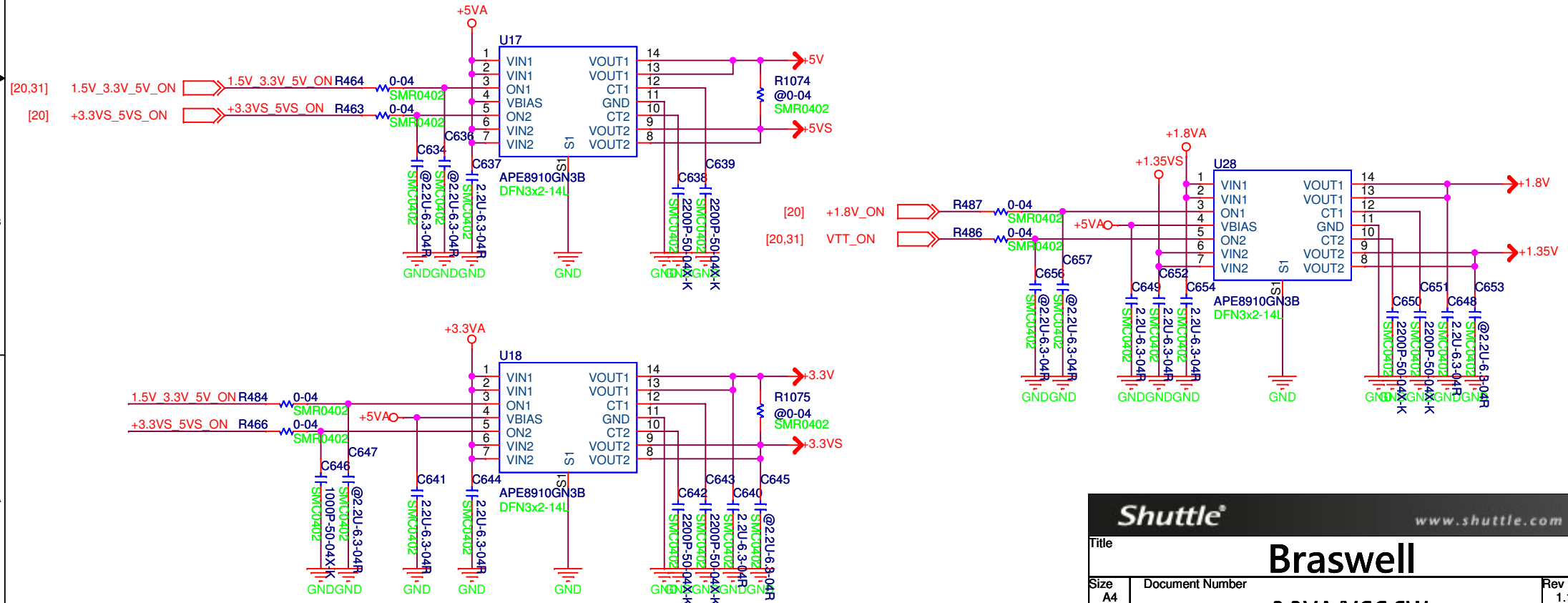
Size	Document Number	Rev
A4	+1.05VA/+5VA	1.1

Date: Thursday, June 16, 2016 Sheet 29 of 36

3.3VA Step Down Convert



VCC Switch



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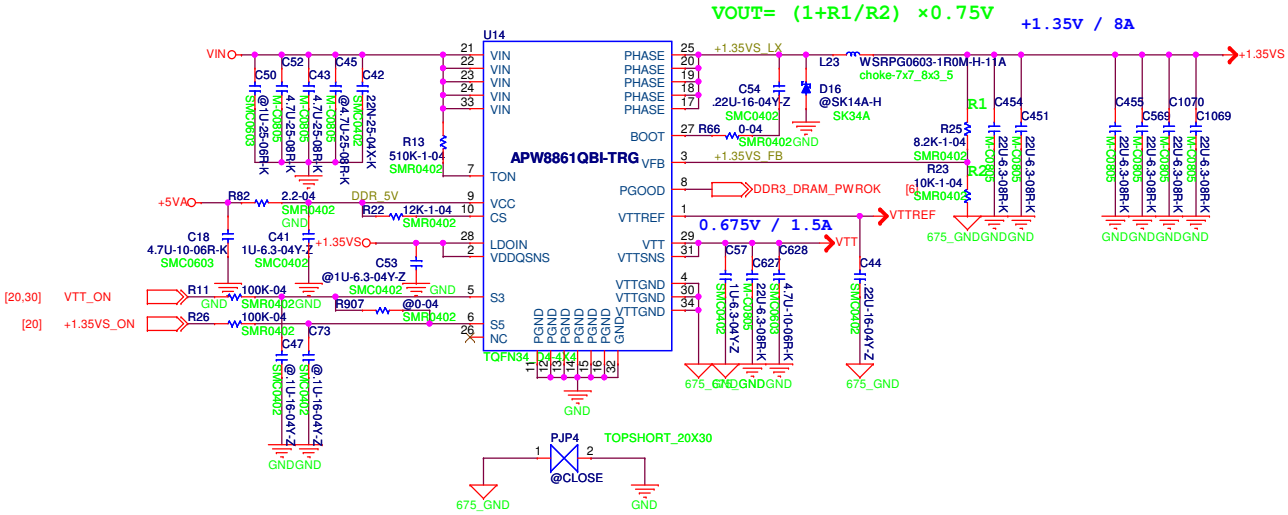
Title: **Braswell**

Size	Document Number	Rev
A4	+3.3VA/VCC SW	1.1

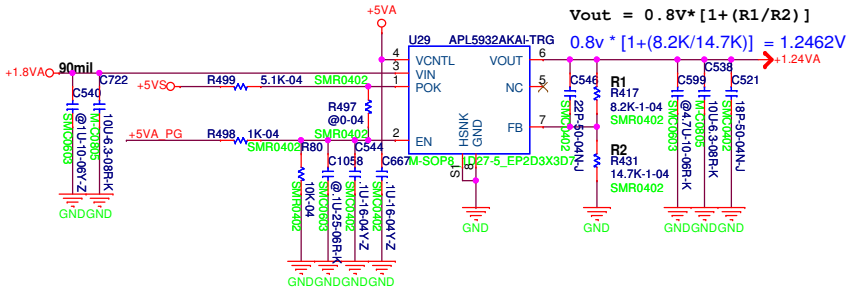
Date: Sunday, June 12, 2016 Sheet 30 of 36

DRAM POWER

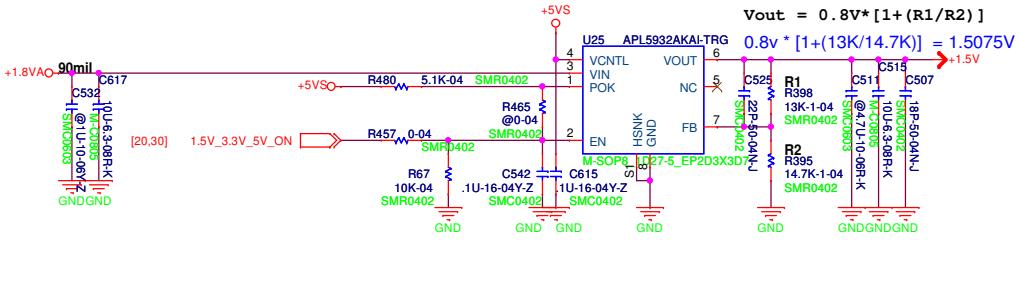
State	EN1	EN2	VDDQ	VTTREF	VTT
S0	High	High	ON	ON	ON
S3	Low	High	ON	ON	OFF(High-Z)
S4/S5	Low	Low	OFF	OFF	OFF



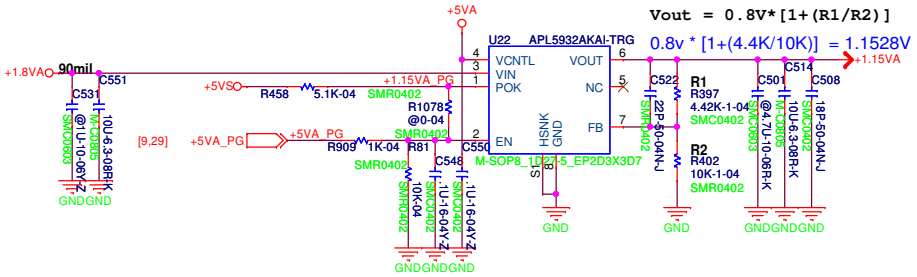
1.24VA LDO



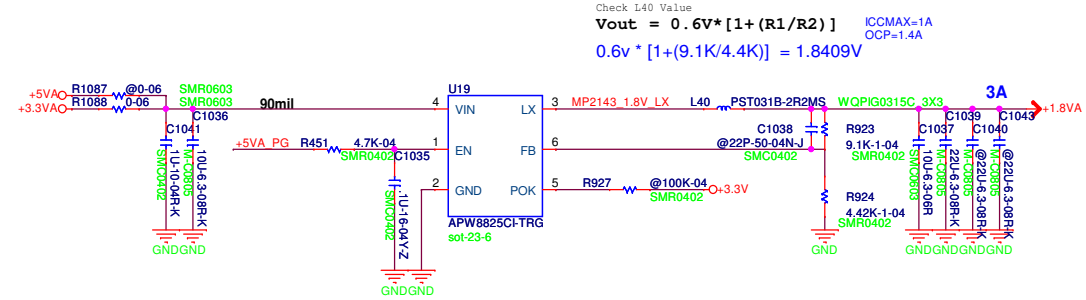
1.5V LDO



1.15VA LDO



1.8VA Step Down Convert



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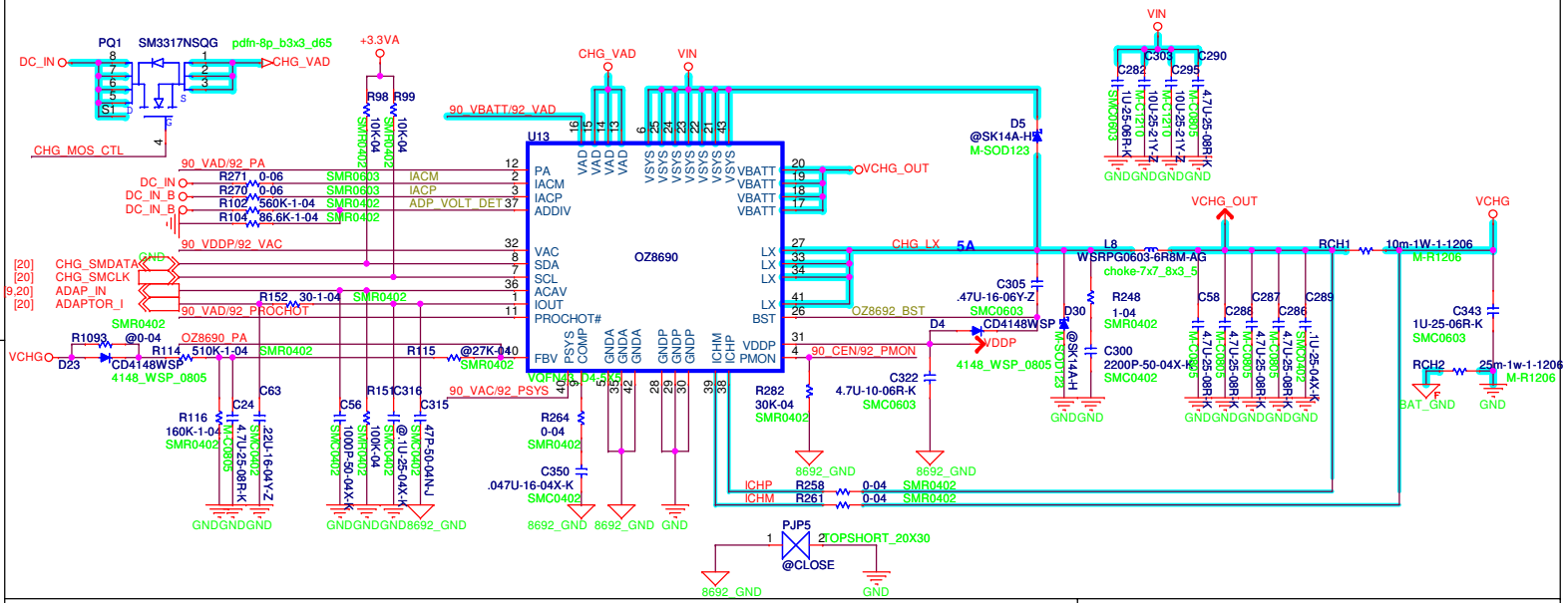
Title: Braswell

Size	Document Number	Rev
A3	1.8VA/1.35/VTT	1.1

Date: Sunday, June 12, 2016 Sheet 31 of 36

CHARGER



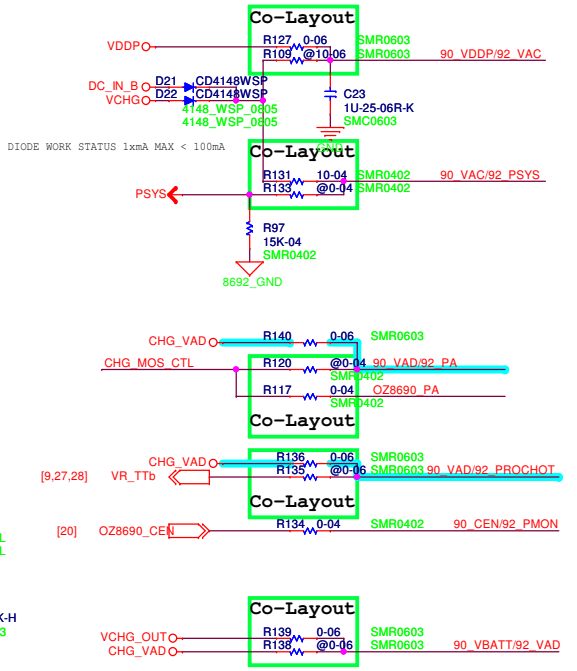
CO-LAYOUT OPTION

OZ8692 : MOUNT R120、R135、R138、R109、R133、R115

OZ8692 : UNMOUNT R117、R134

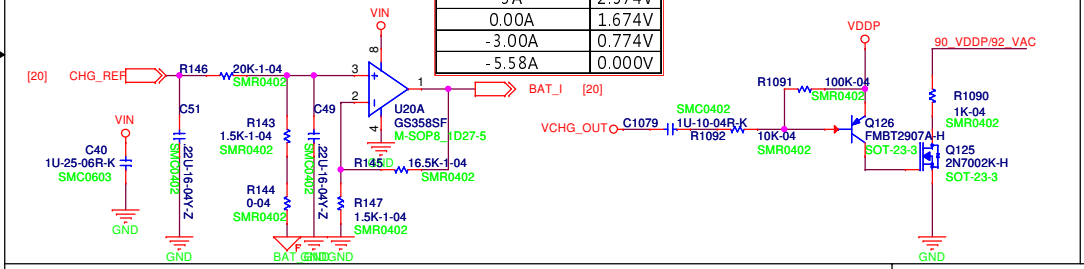
OZ8690 : MOUNT R140、R117、R136、R134、R139、R127、R131

OZ8690 : UNMOUNT R115

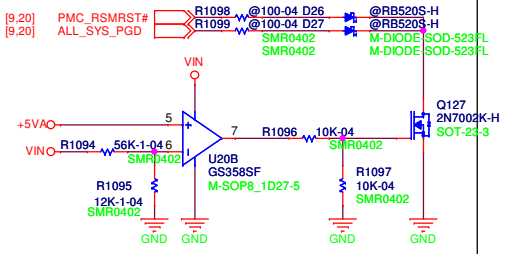


Battery Current Detect

Charge Current	BAT_I
4.44A	3.006V
3A	2.574V
0.00A	1.674V
-3.00A	0.774V
-5.58A	0.000V

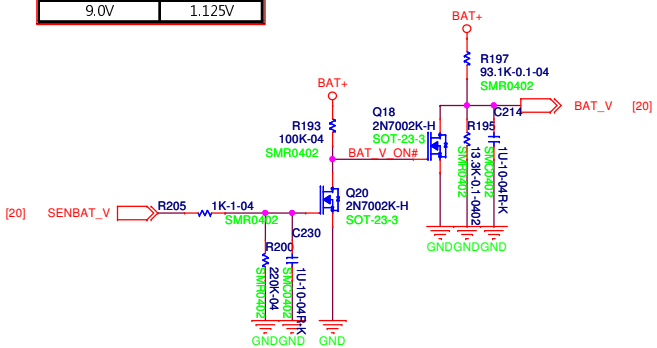


For No Battery (AIO type)

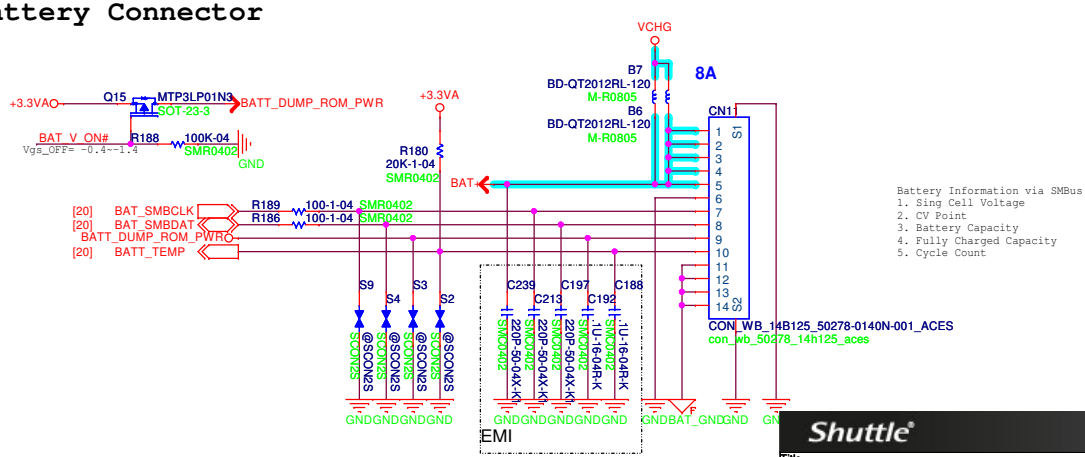


Battery Voltage Detect

BAT_Voltage	BAT_V
17.6V	2.2V
16.8V	2.1V
13.2V	1.65V
12.6V	1.575V
9.0V	1.125V



Battery Connector



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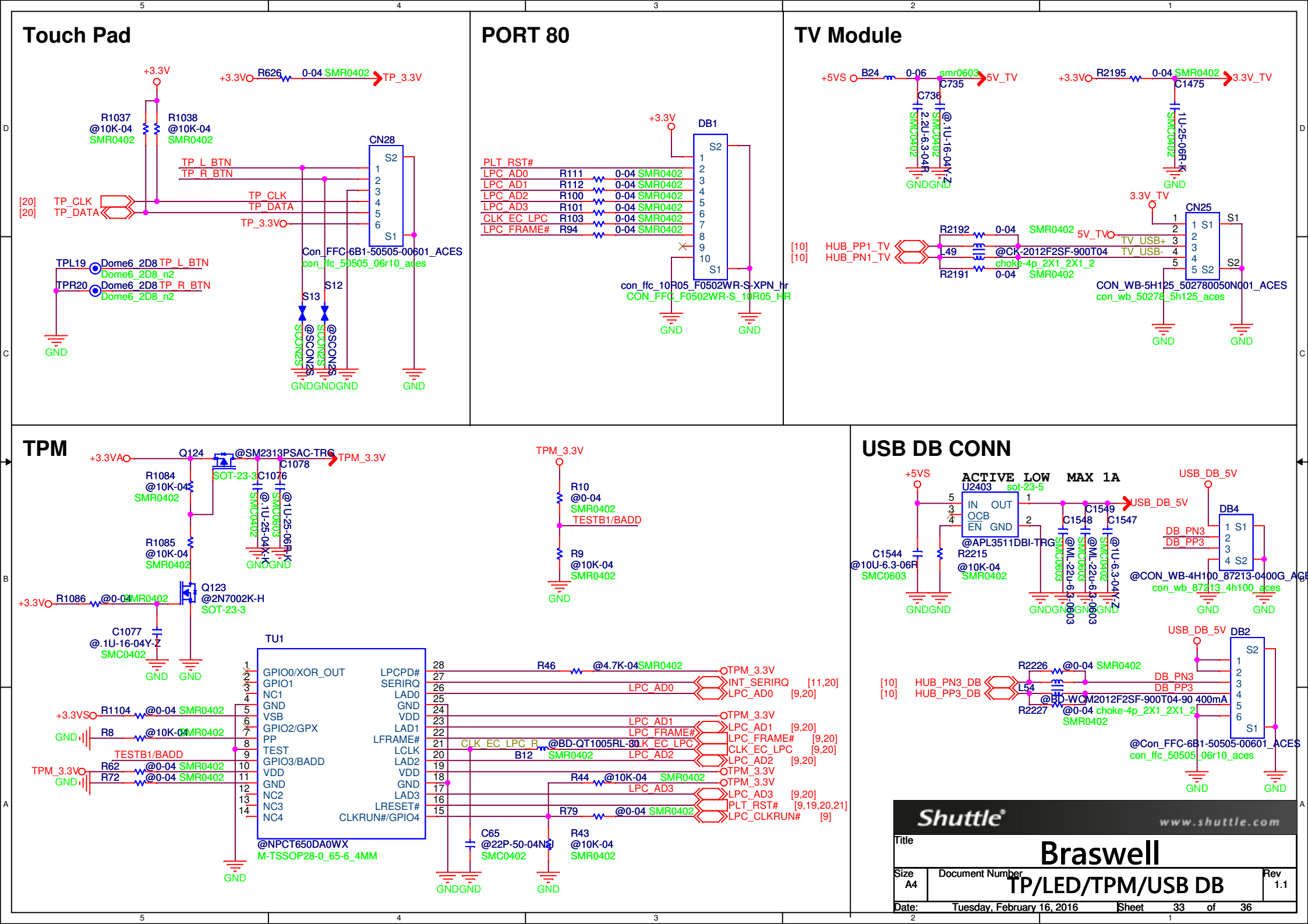
Title: Braswell

Size	Document Number	Rev
A3	CHARGER(OZ8690)	1.1

Date: Tuesday, February 16, 2016 Sheet 32 of 36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PORT 80
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TPM
USB DB CONN
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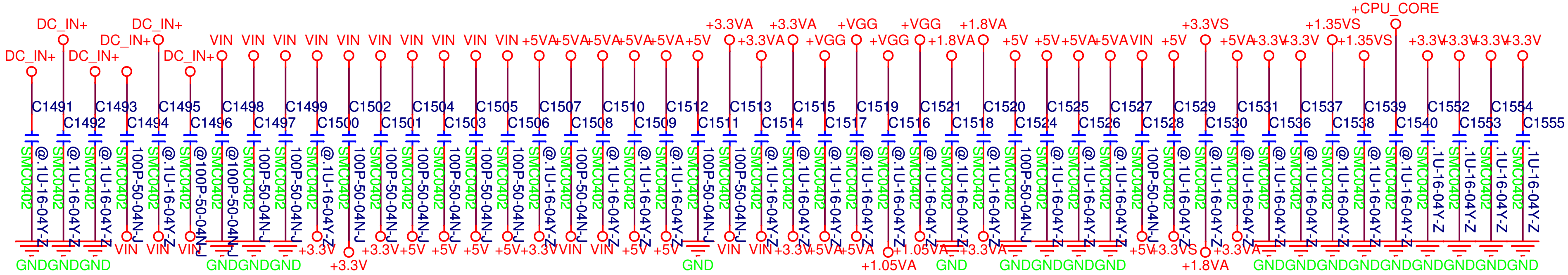
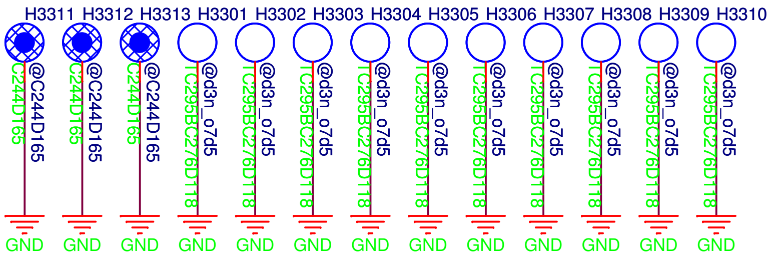
Size A4
Document Number
Rev 1.1
Date: Tuesday, February 16, 2016
Sheet 33 of 36

HIGH-SPEED CAP

Discharge Resistor



Screw Hole



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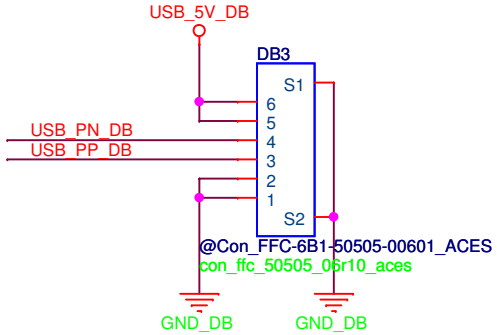
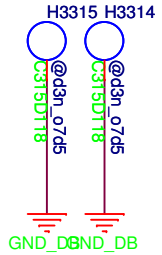
Title	Braswell	
Size A4	Document Number HIGH-SPEED CAP	Rev 1.1
Date: Tuesday, February 16, 2016	Sheet 34 of 36	

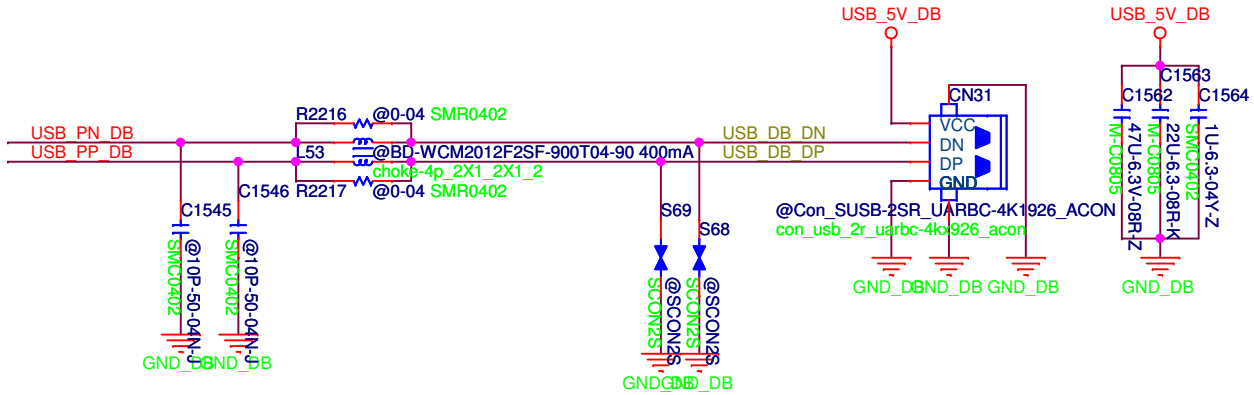
DB CONN



DB Screw Hole



USB 2.0 CONN



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Title: **Braswell**

Size	Document Number	Rev
A4	DB-USB	1.1

Date: Tuesday, February 16, 2016 Sheet 35 of 36

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Braswell

Size A4 | Document Number | Rev 1.1

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Date: Tuesday, February 16, 2016 Sheet 36 of 36