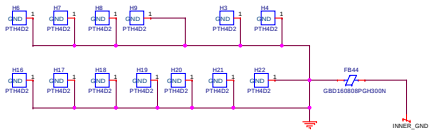
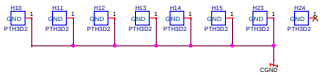
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LEC-BASE R1

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Default Position for Jumpers

Page	Jump	position	function
022	JP2	pin 2 & 3	LCD Power Sel
009	JP3	pin 1 & 2	LCD I2C translate enable
020	JP4	pin 2 & 3	Smart Bat charger enable
021	JP5	pin 1 & 2	Smart Bat charger present
021	JP6	pin 2 & 3	Smart Bat2 SMBus Voltage select
022	JP8	pin 2 & 3	RGB output mux select
022	JP9	pin 1 & 2	RGB output mux select
022	JP10	pin 2 & 3	LVDS control
022	JP11	pin 1 & 2	LVDS power down control
022	JP12	pin 1 & 2	LVDS back light pwm control
022	JP13	pin 1 & 2	LVDS panel power select
022	JP14	pin 2 & 3	LVDS back light power select
009	JP15	pin 2 & 3	HDMI I2C translate enable
015	JP16	pin 1 & 2	SMARC Boot bit 0
015	JP17	pin 2 & 3	SMARC Boot bit 1
015	JP18	pin 1 & 2	SMARC Boot bit 2
015	JP19	pin 1 & 2	SMARC Force Recovery bit
018	JP20	pin 1 & 2	VDD_VIO select
017	JP21	pin 2 & 3	Power Button select
003	JP22	pin 2 & 3	SPI2 control signal translation enable
003	JP23	pin 2 & 3	camera data bit translation
013	JP24	pin 2 & 3	camera supply voltage
013	JP25	pin 2 & 3	ground pins for CAM0 connector

DRAWN	DESIGN	CHECK	ISSUED

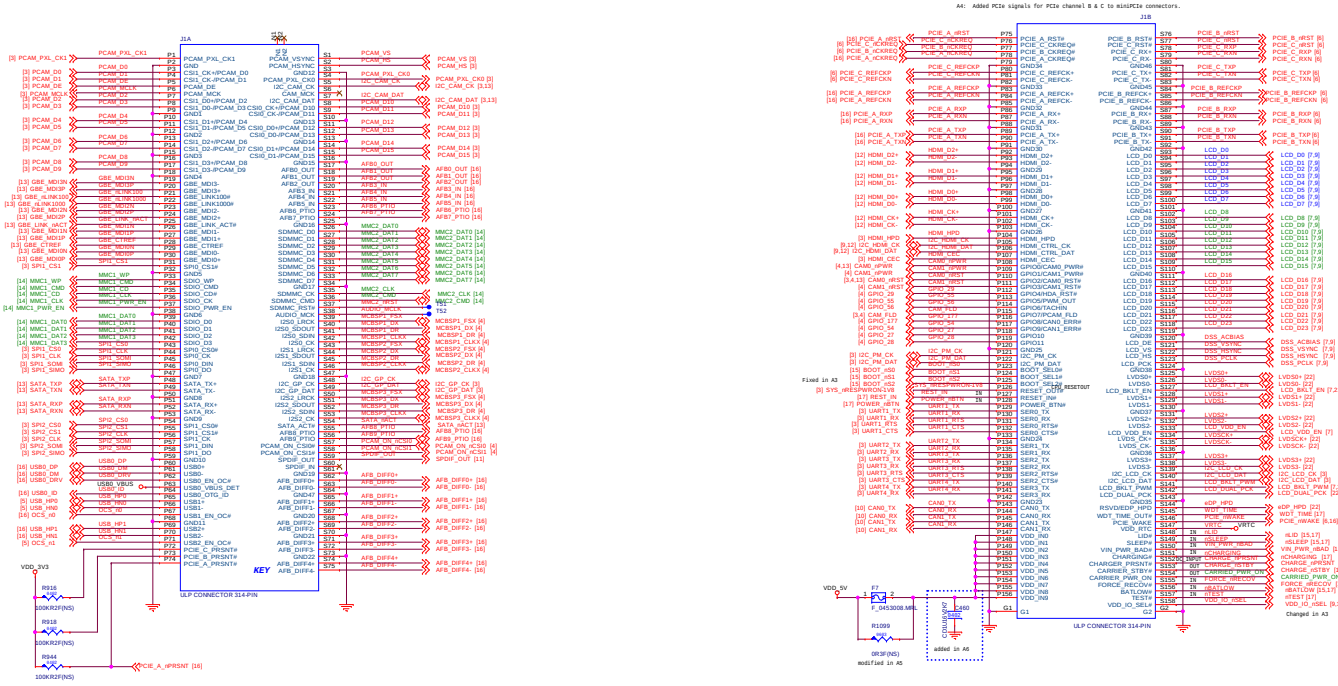
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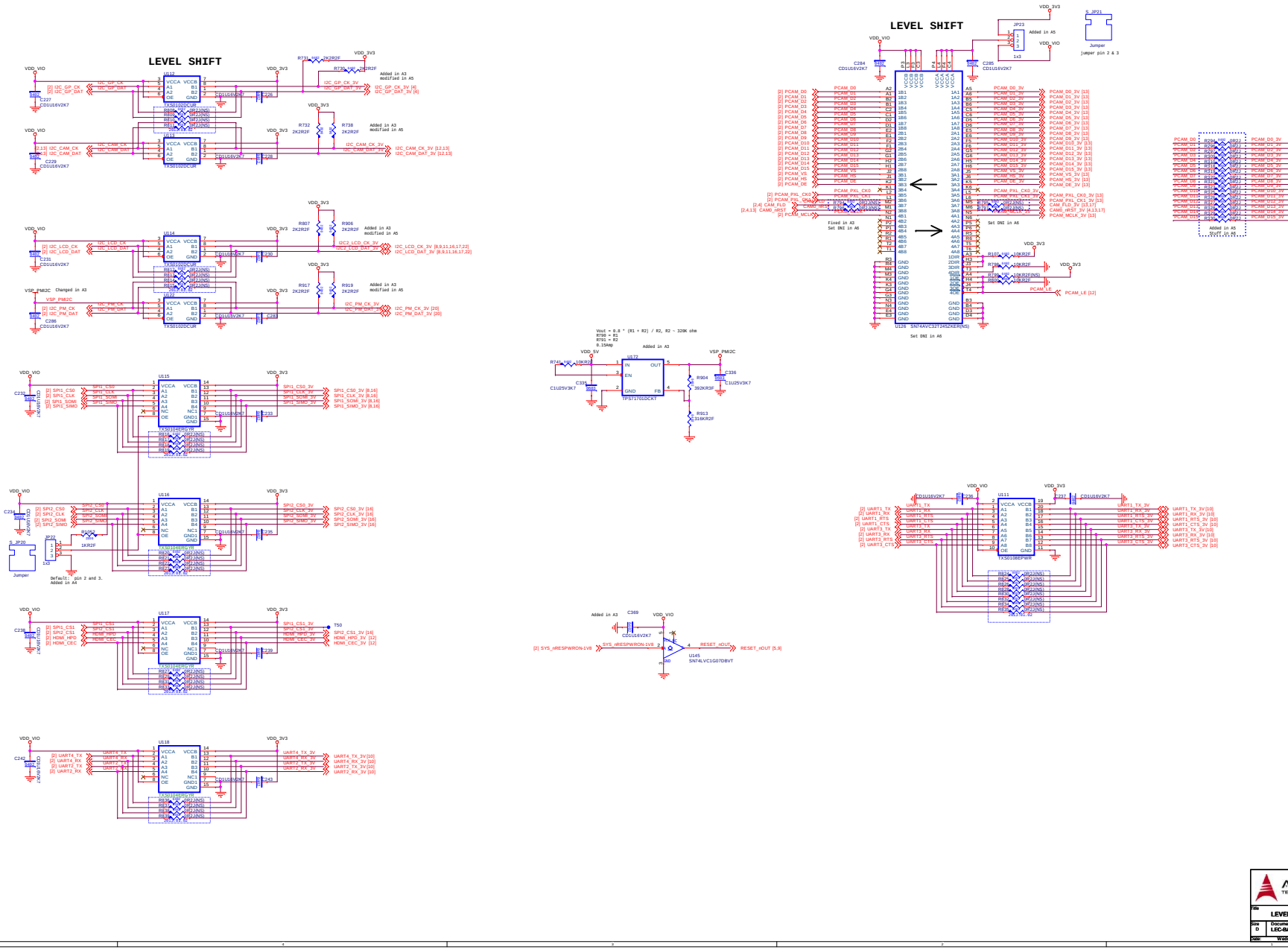
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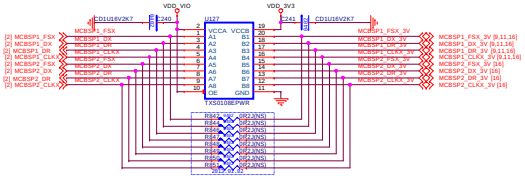
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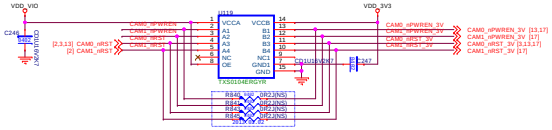


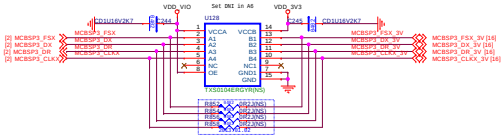
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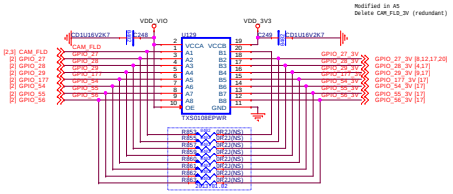
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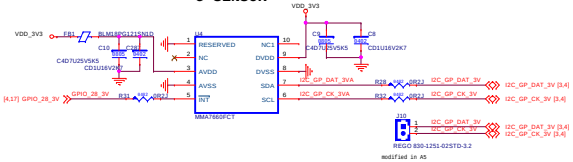
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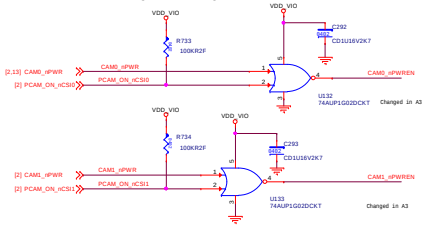




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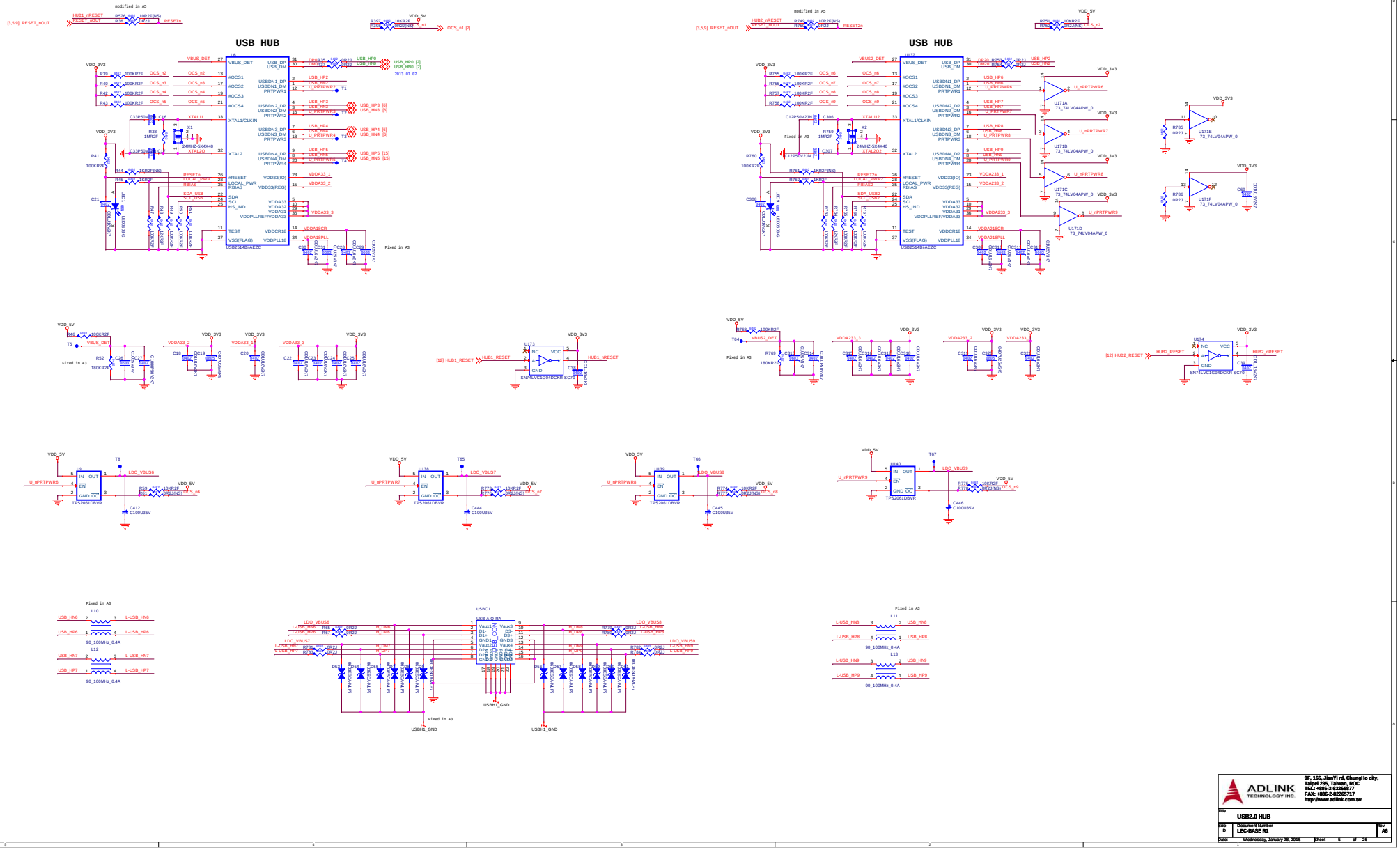
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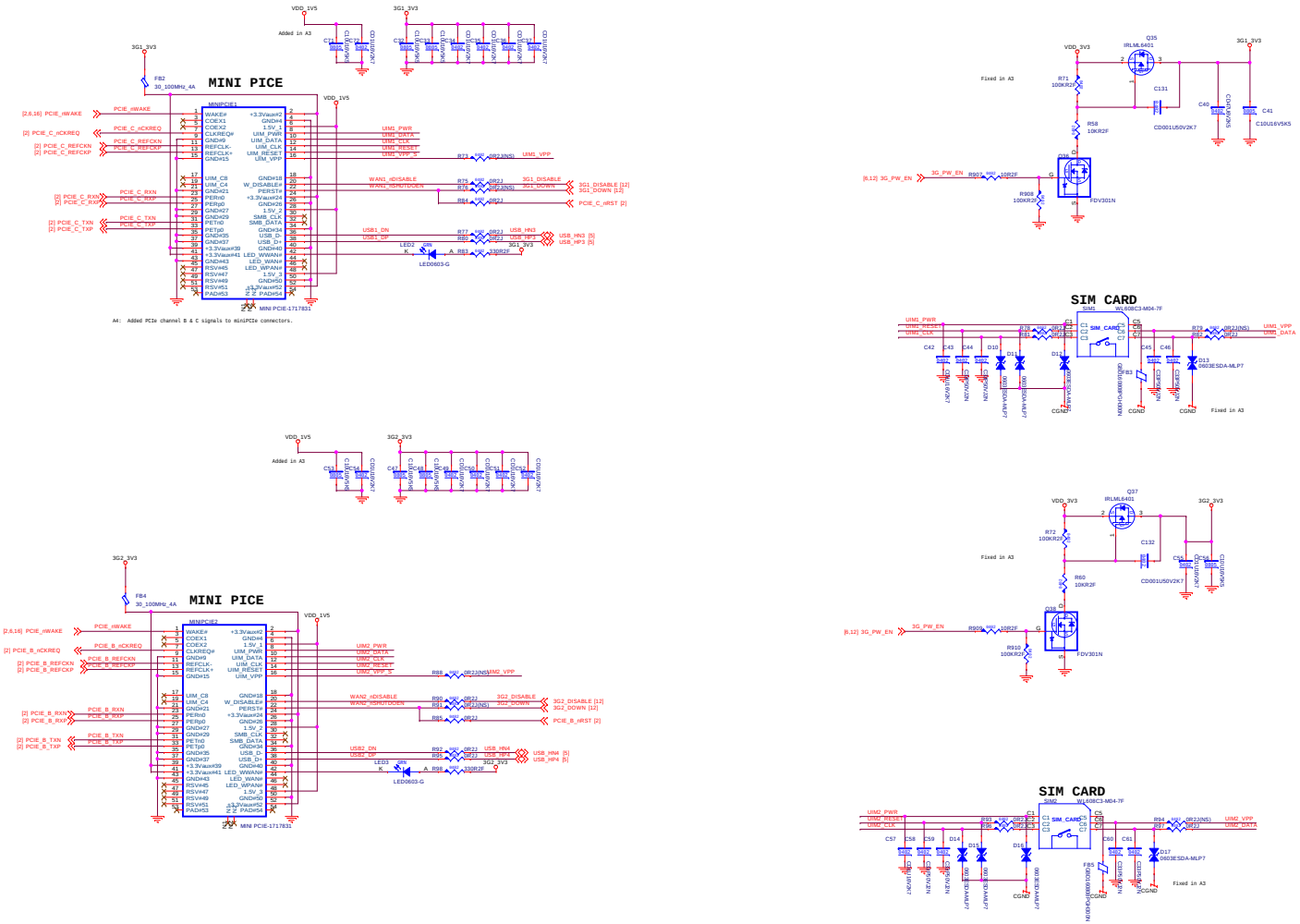
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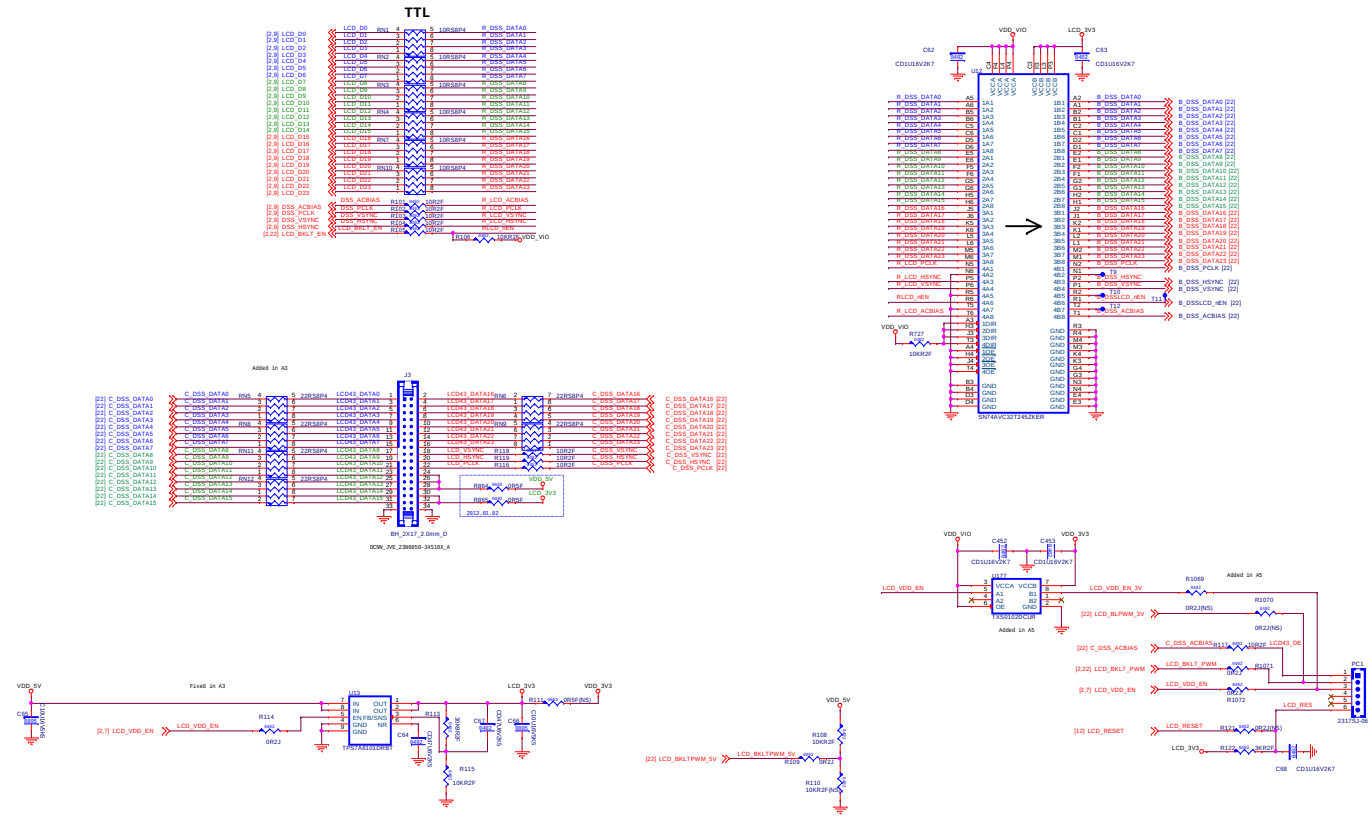
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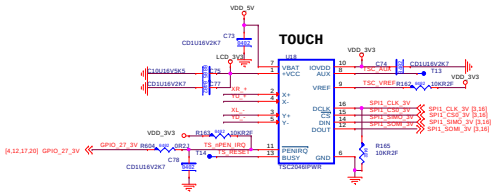
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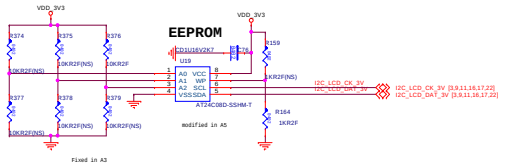


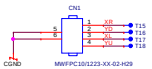
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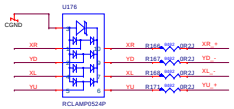
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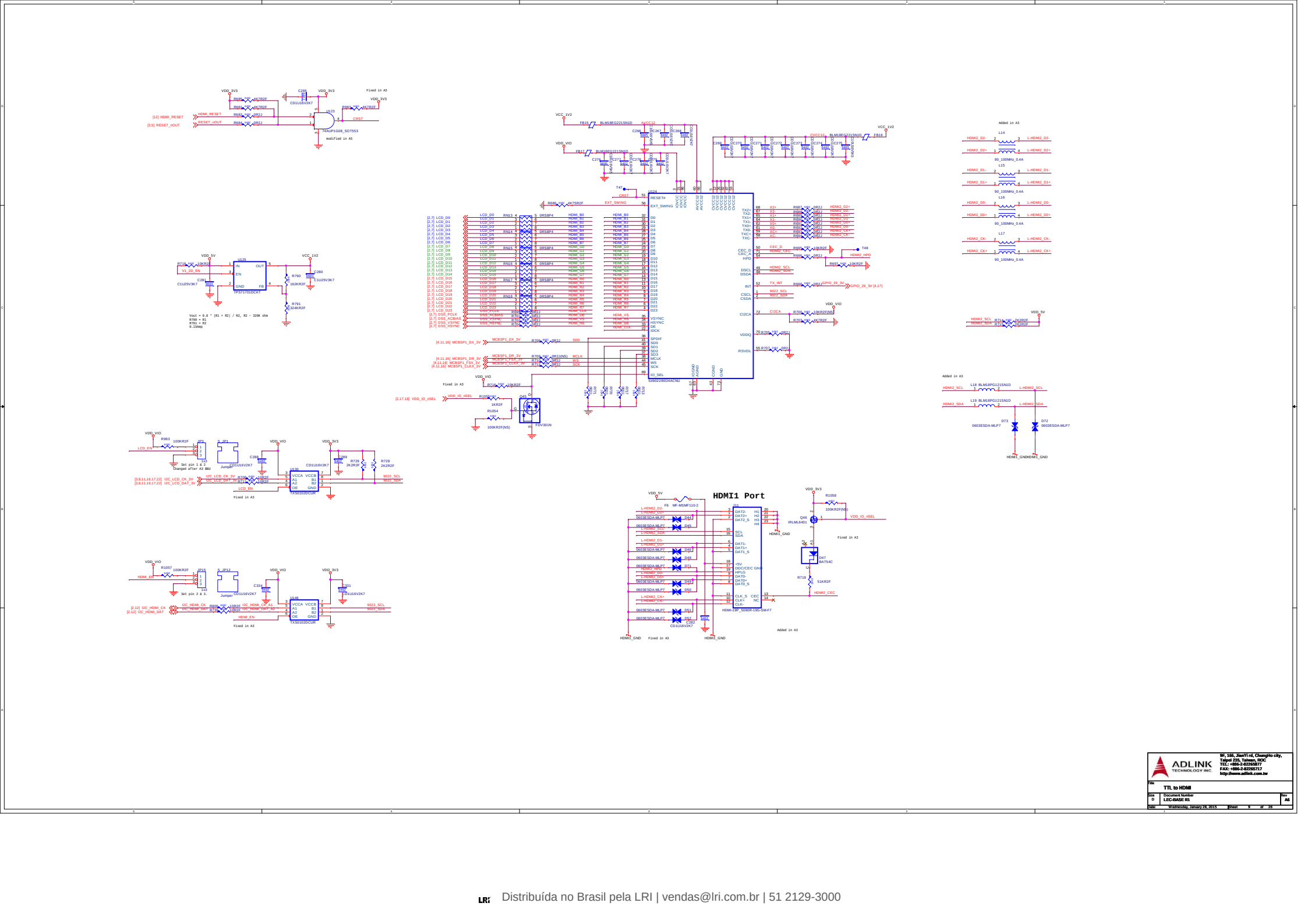
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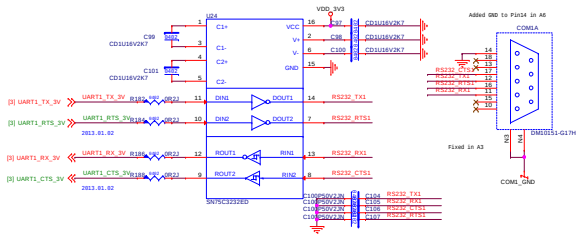
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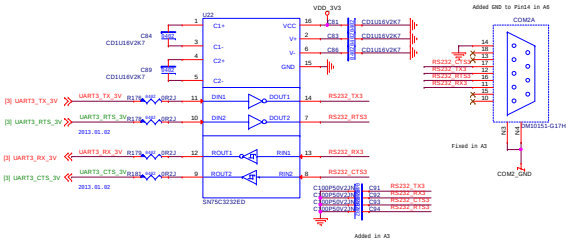
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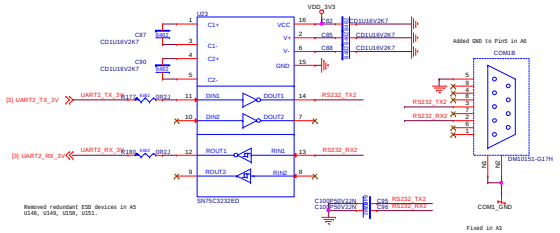
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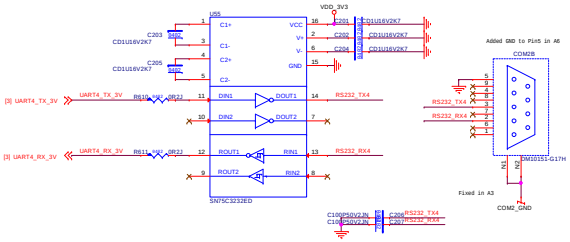


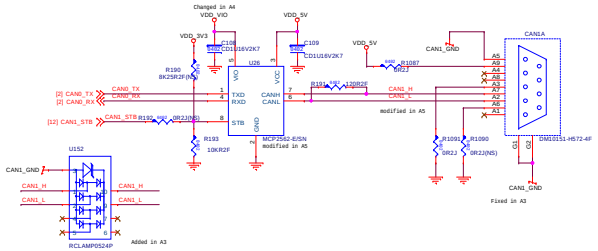
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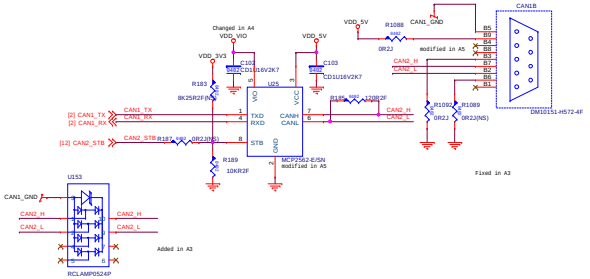












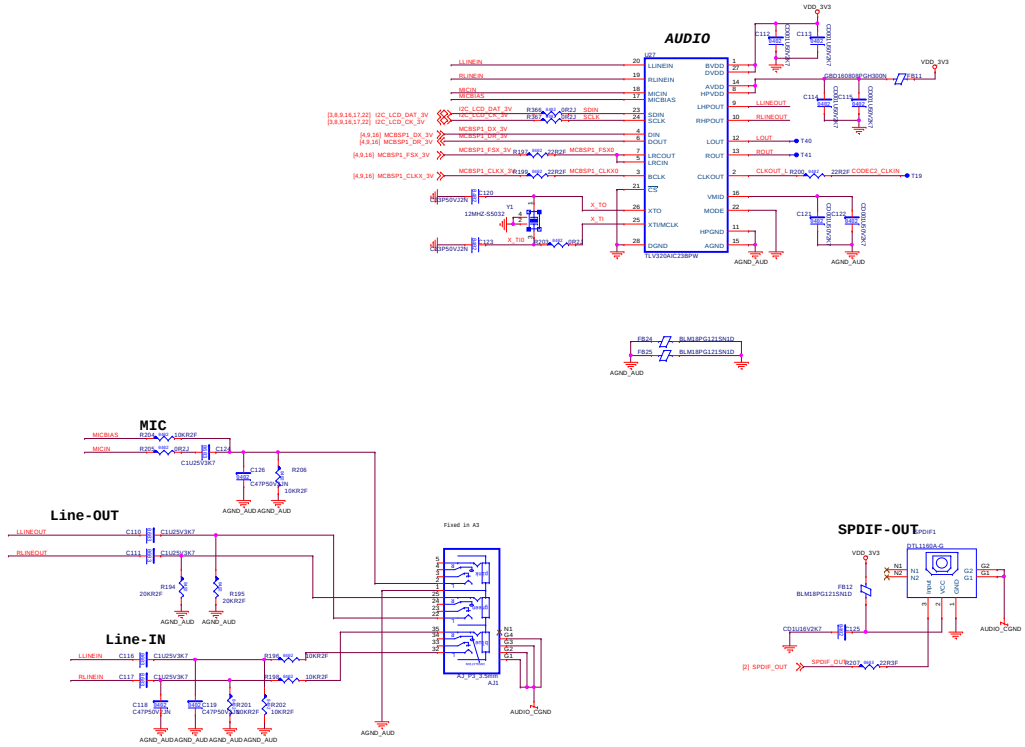
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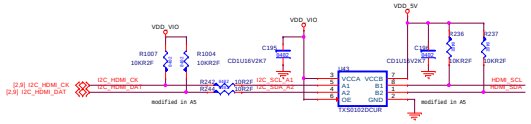
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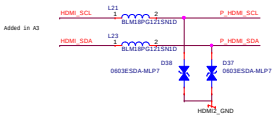
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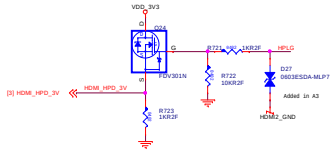
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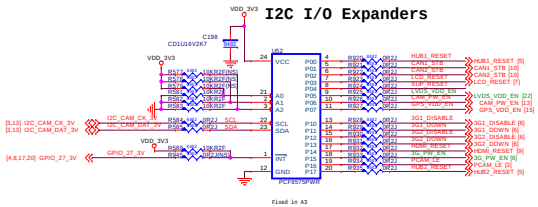
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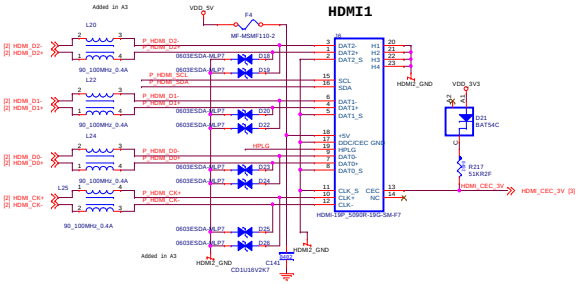




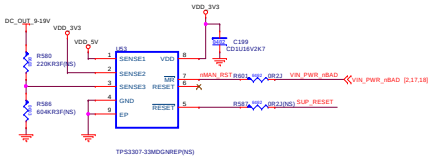
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HDMI1



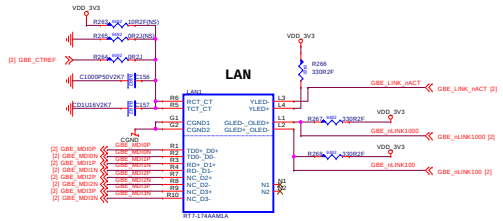
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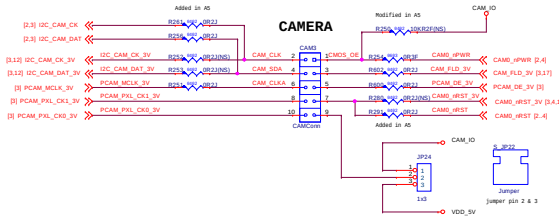


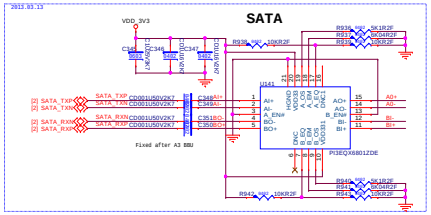
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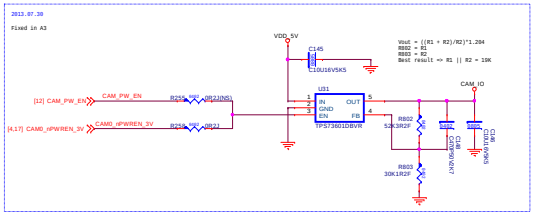
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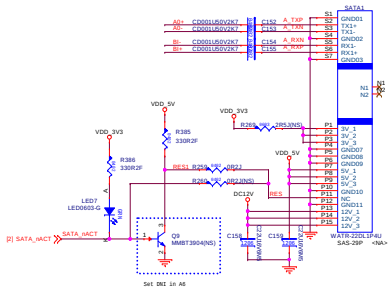
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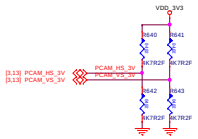


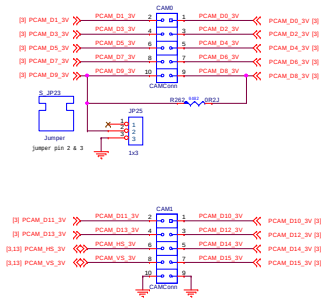












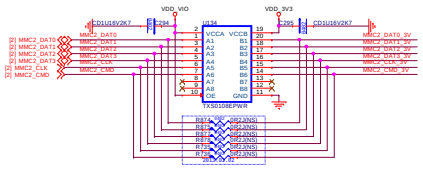
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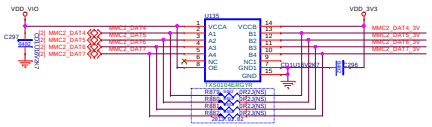
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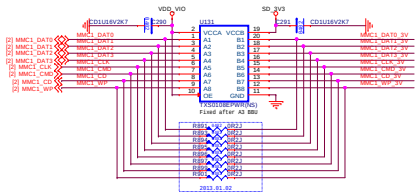
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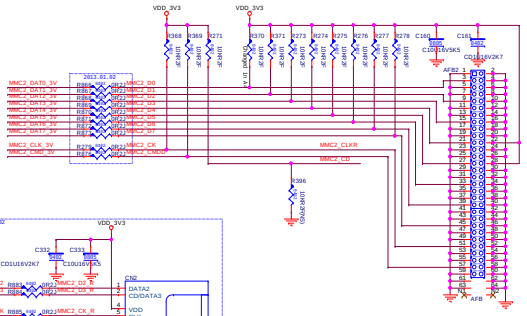
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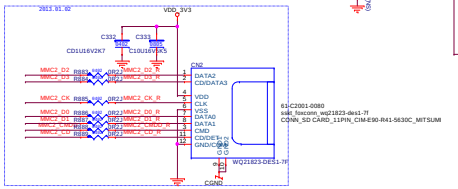


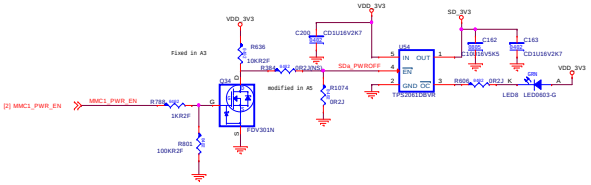


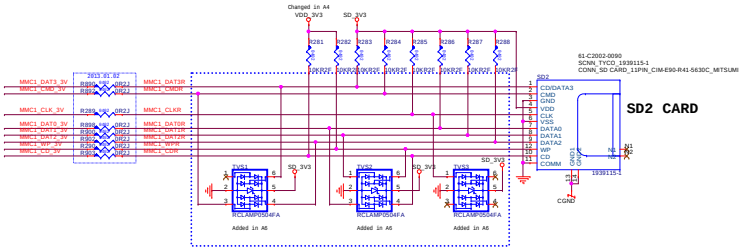




SD1 CARD







SD2 CARD

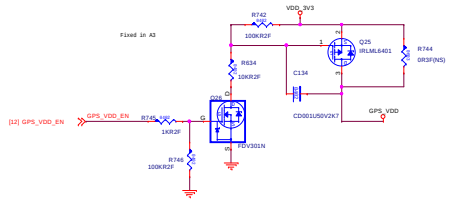
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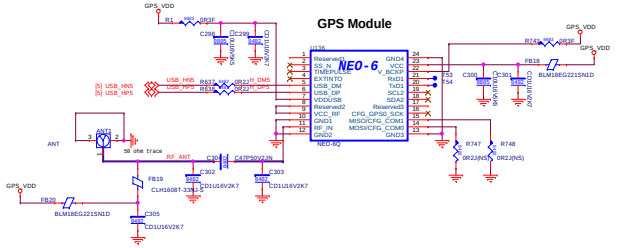
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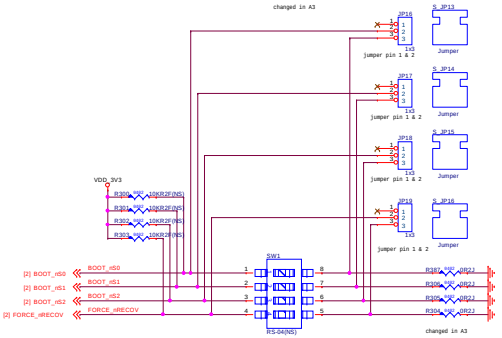
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BOOT SELECT ON = GND OFF = FLOAT	4	3	2	1
Carrier SATA	OFF	ON	ON	ON
Carrier SDIO	OFF	ON	ON	OFF
Carrier eMMC	OFF	ON	OFF	ON
Carrier SPI	OFF	ON	OFF	OFF
Module NAND	OFF	OFF	ON	ON
Module NOR	OFF	OFF	ON	OFF
Module eMMC	OFF	OFF	OFF	ON
Module SPI	OFF	OFF	OFF	OFF
FORCE RECOVERY	4	3	2	1
ACTIVE	ON	OFF	OFF	OFF



BOOT SELECT SWITCH



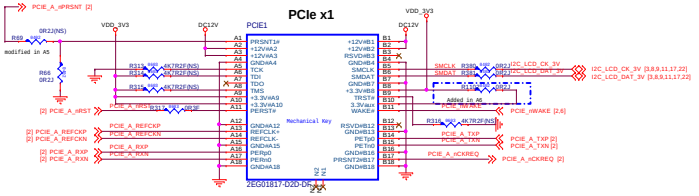
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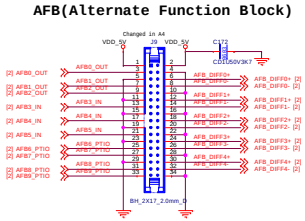
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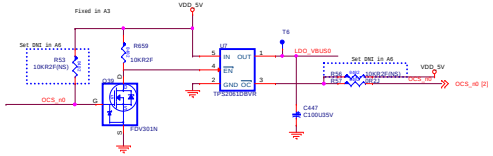
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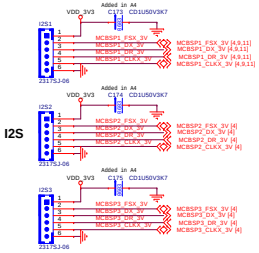
Date: Wednesday, January 28, 2015 Sheet 15 of 28

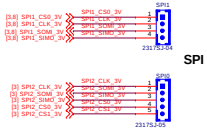
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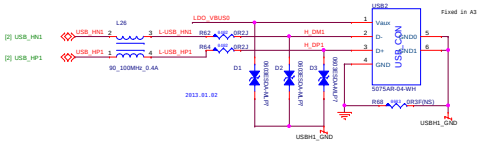


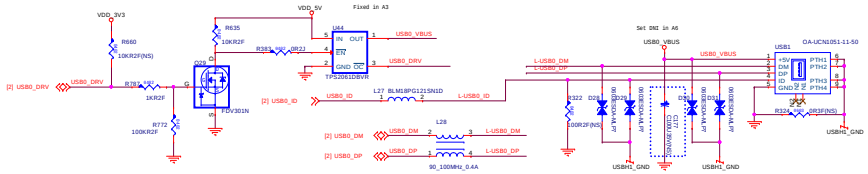












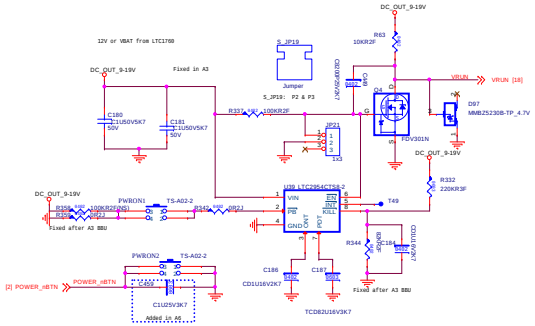
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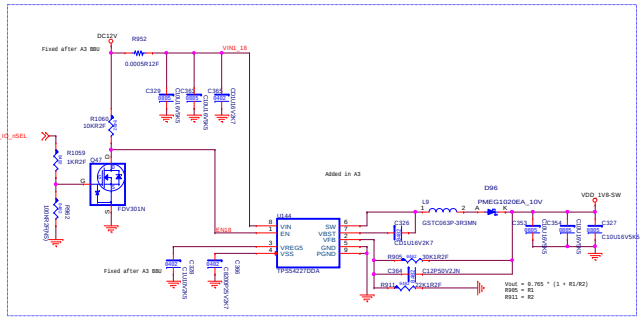
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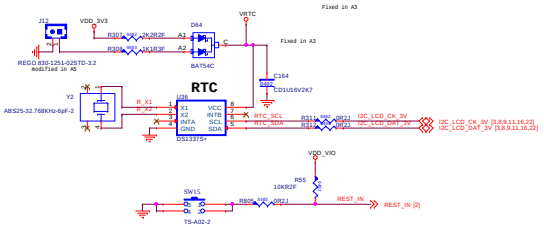
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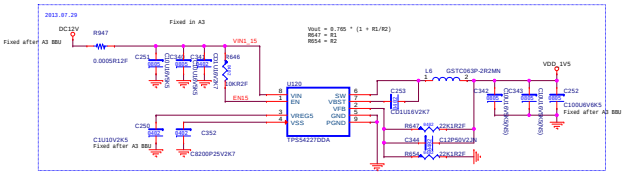
Date: Wednesday, January 28, 2015 Sheet 16 of 28

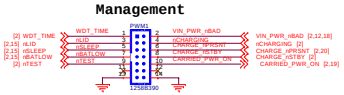
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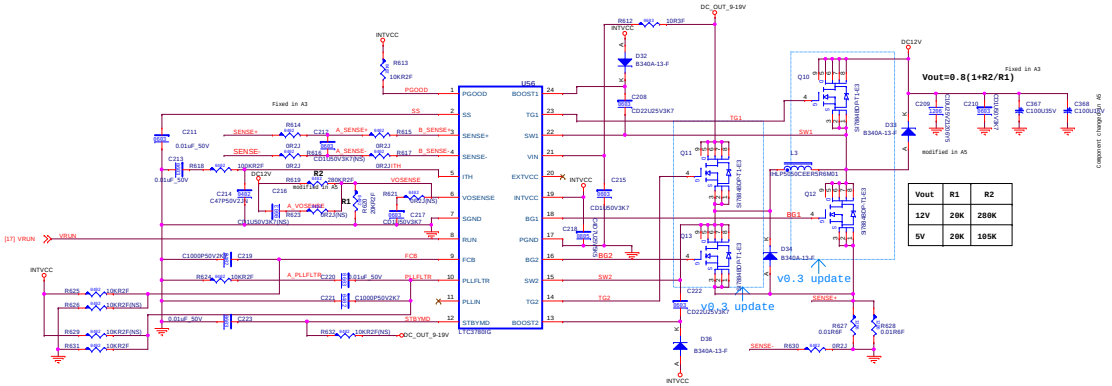
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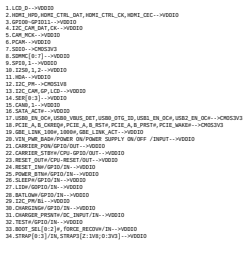
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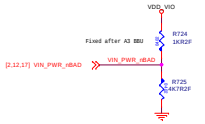
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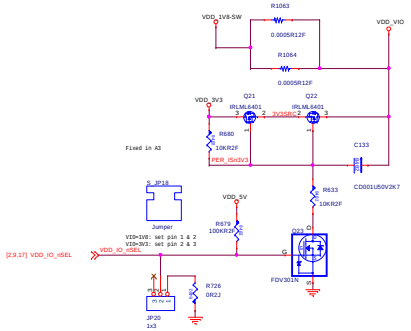
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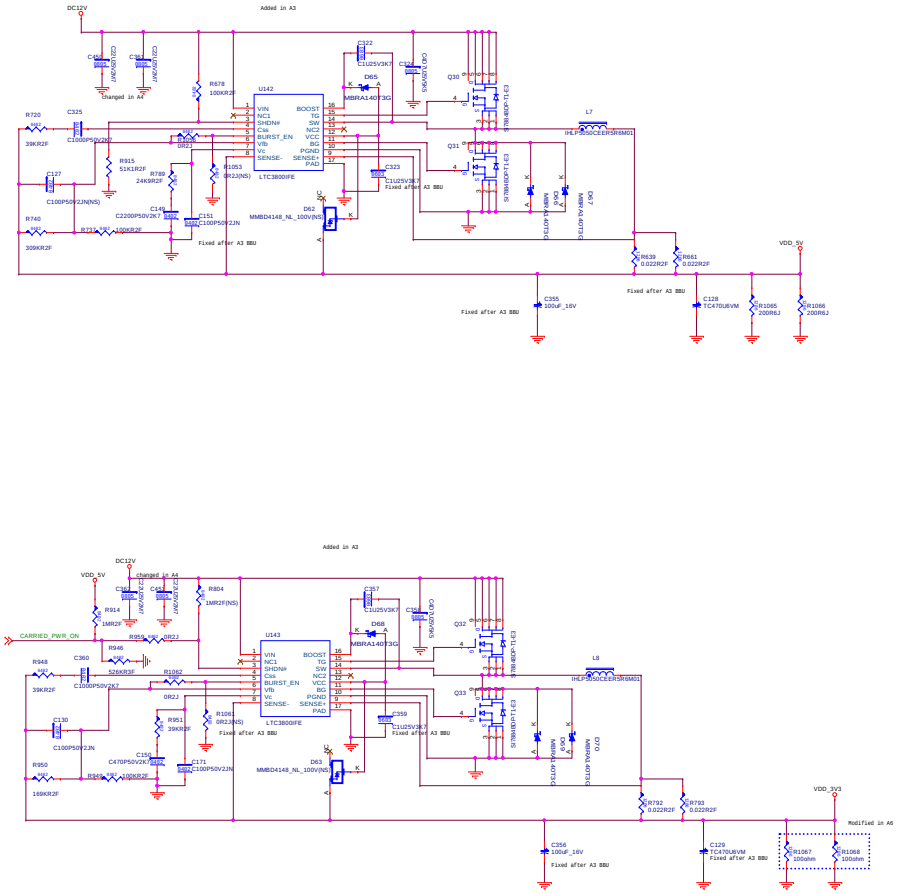




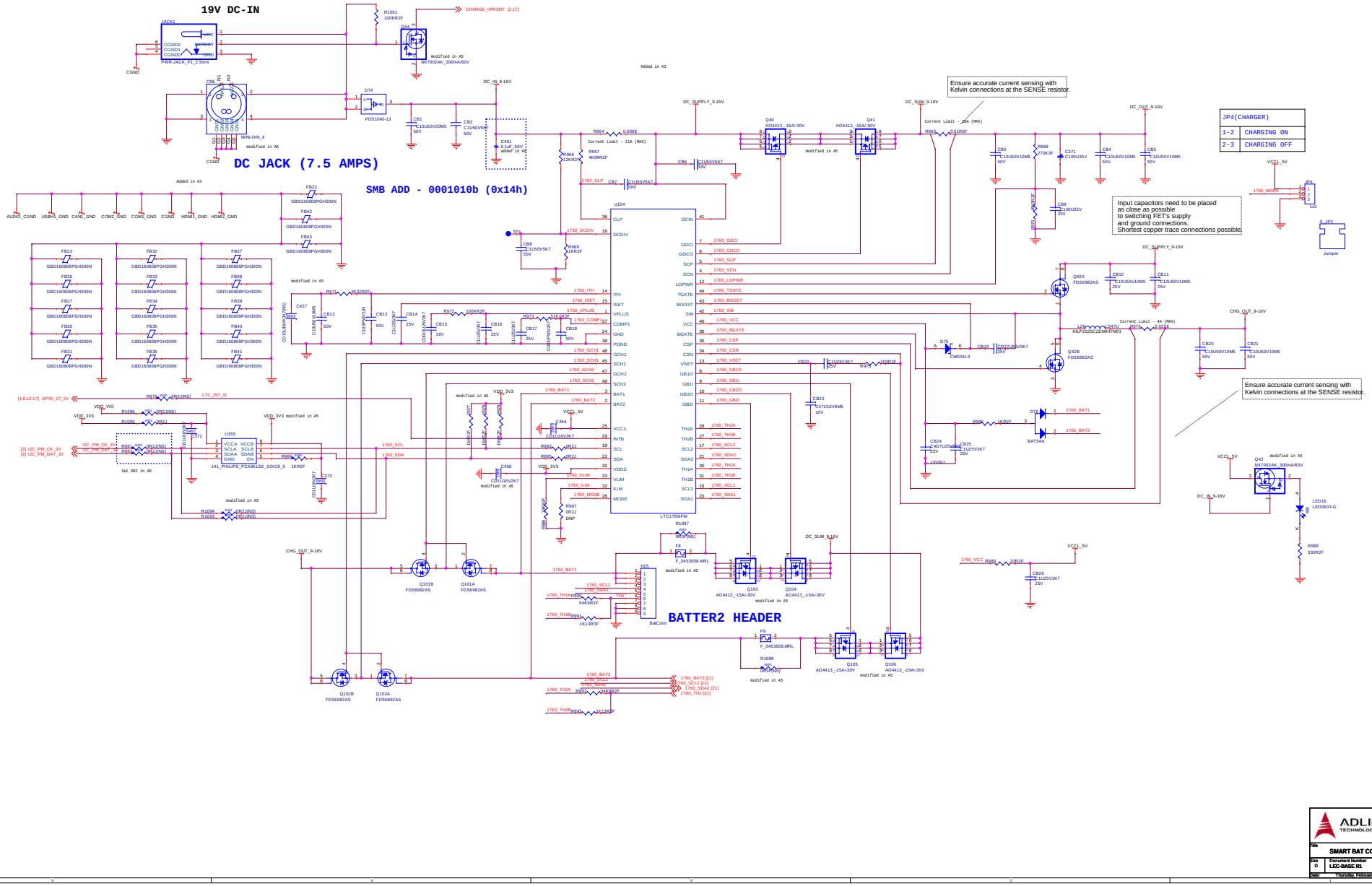


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Title	12V Conv & VIO SEL		
Size: D	Document Number: LEC-BASE R1		Rev: A5
Date: Wednesday, January 28, 2015	Sheet 18 of 28		

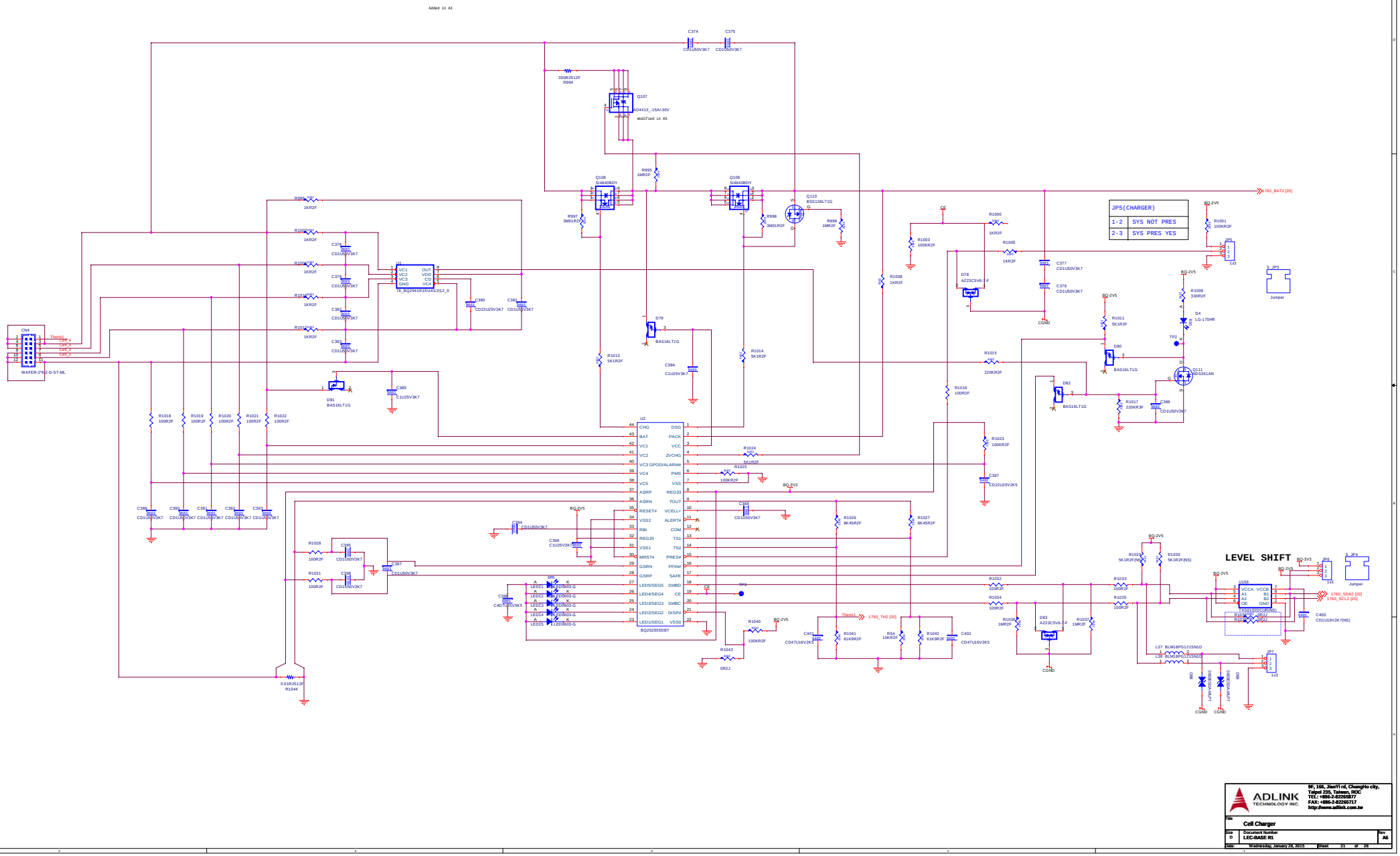
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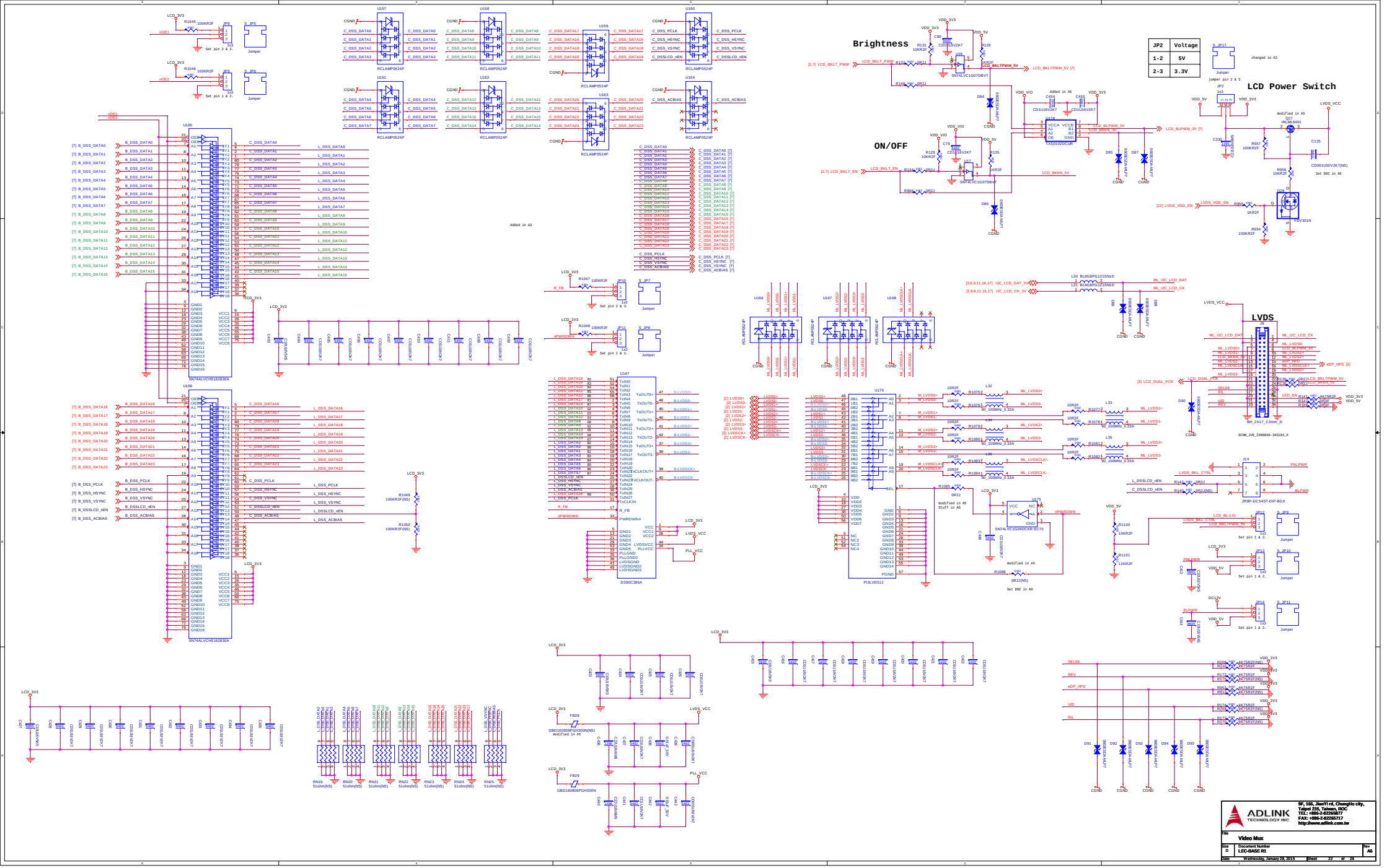
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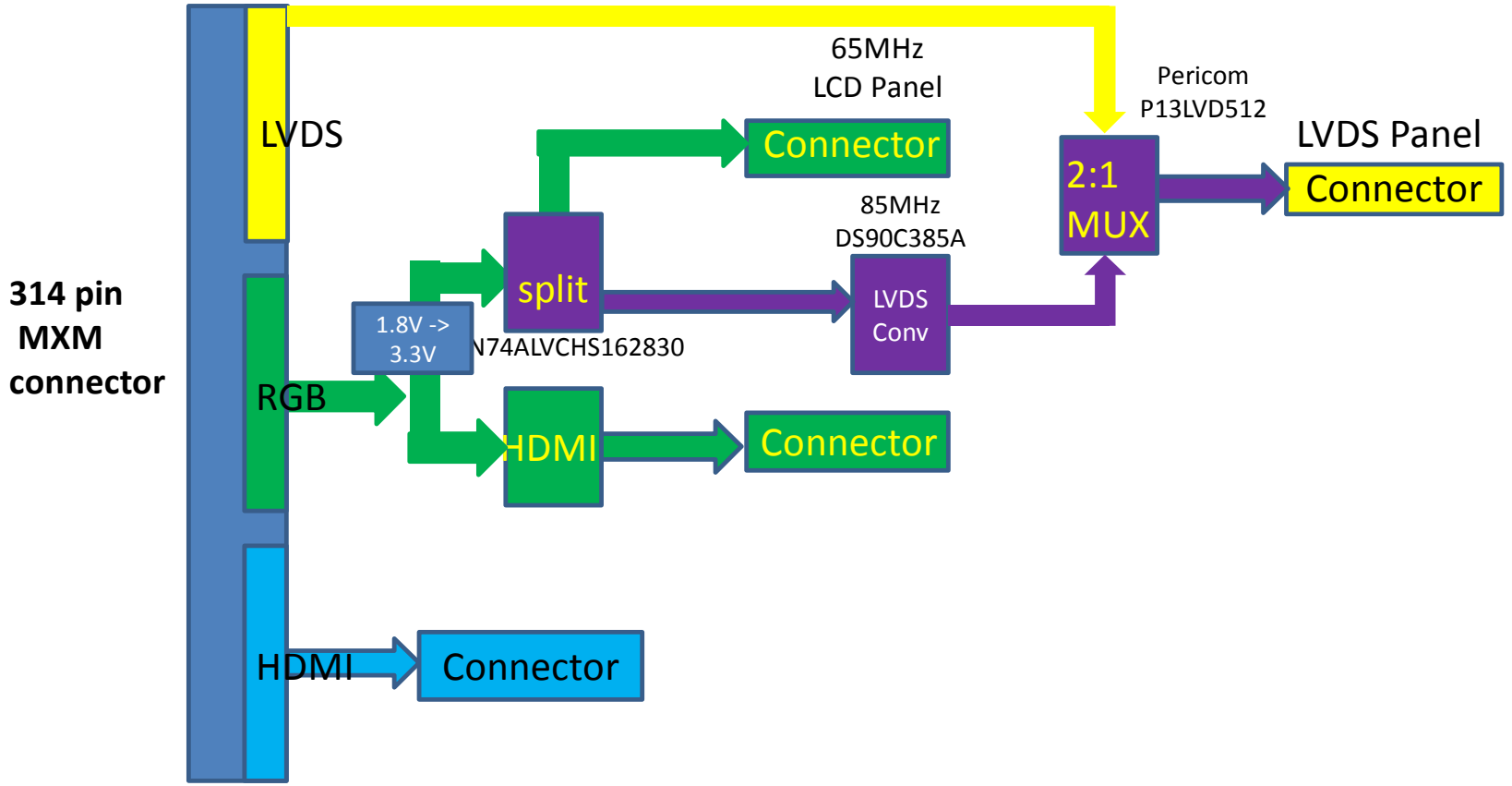


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A4 Video Output Block Diagram



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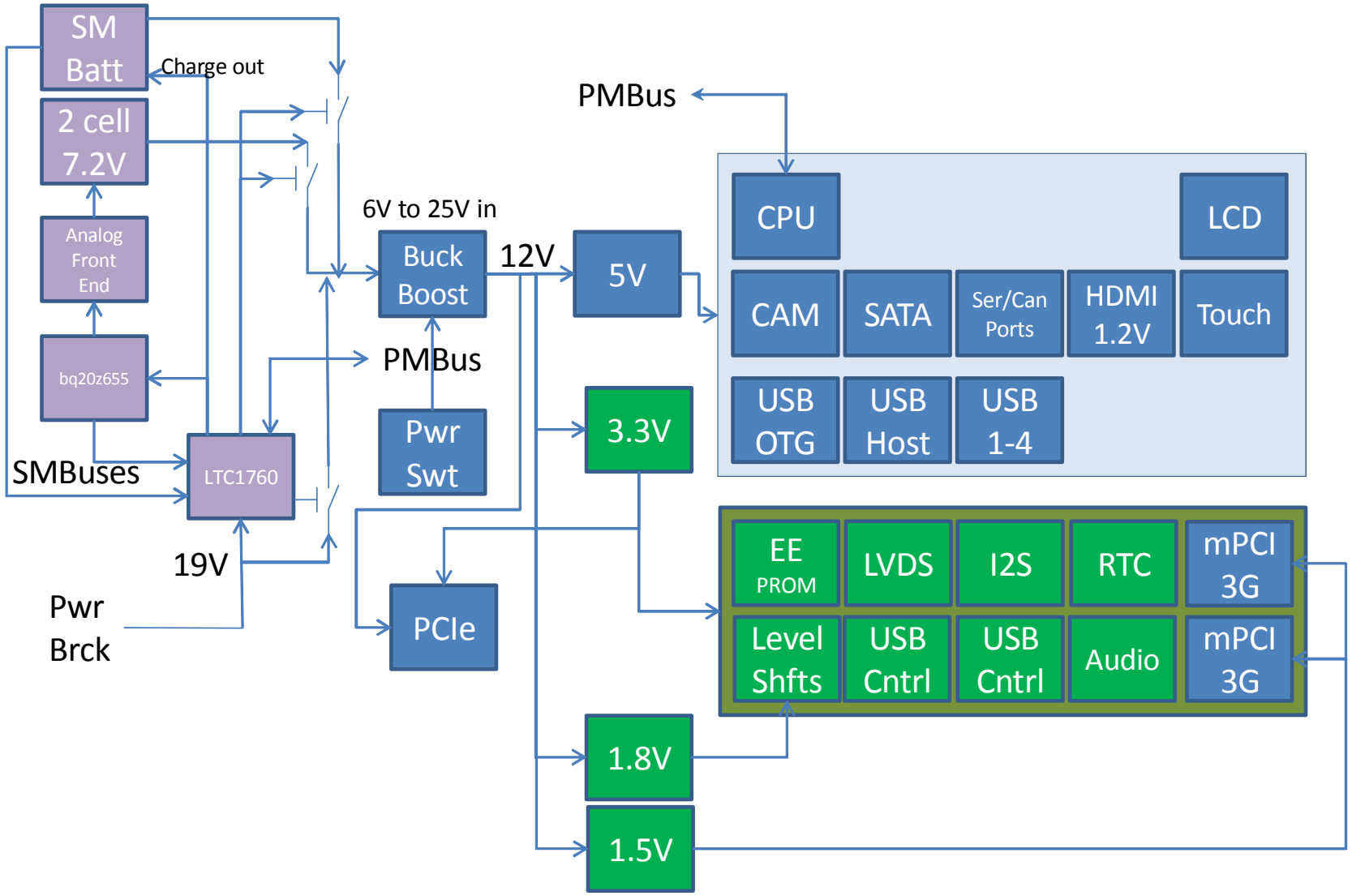
A3 Video Output Block Diagram

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A4's Power Structure



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MXM 314 Pin Names and Definition.

NO.	Pin Define	Up	Down	NO.	Pin Define	Up	Down	NO.	Pin Define	Up	Down	NO.	Pin Define	Up	Down	NO.	Pin Define	Up	Down	NO.	Pin Define	Up	Down
P1	PCAM_PXL_CK1	VDD_IO		P61	USB0-	USB		P121	I2C_PM_CK	VDD_IO		S1	PCAM_VSYNC	VDD_IO		S61	GND		G	S121	LCD_VS	VDD_IO	
P2	GND		G	P62	USB0_EN_OC#	+3.3V		P122	I2C_PM_DAT	VDD_IO		S2	PCAM_HSYNC	VDD_IO		S62	RSVD/USB1_SSTX0+/AFB			S122	LCD_HS	VDD_IO	
P3	CSI1_CK+/PCAM_D0	VDD_IO		P63	USB0_VBUS_DET	+3.3V		P123	BOOT_SEL0#	VDD_IO		S3	GND		G	S63	RSVD/USB1_SSTX0-/AFB			S123	LCD_PCK	VDD_IO	
P4	CSI1_CK-/PCAM_D1	VDD_IO		P64	USB0_OTG_ID	+3.3V		P124	BOOT_SEL1#	VDD_IO		S4	PCAM_PXL_CK0	VDD_IO		S64	RSVD/AFB			S124	GND		G
P5	PCAM_DE	VDD_IO		P65	USB1+	USB		P125	BOOT_SEL2#	VDD_IO		S5	I2C_CAM_CK	VDD_IO		S65	RSVD/USB1_SSRX0+/AFB			S125	LVDS0+	LCD	
P6	PCAM_MCK	VDD_IO		P66	USB1-	USB		P126	RESET_OUT#	VDD_IO		S6	CAM_MEM_CK	VDD_IO		S66	RSVD/USB1_SSRX0-/AFB			S126	LVDS0-	LCD	
P7	CSI1_D0+/PCAM_D2	VDD_IO		P67	USB1_EN_OC#	+3.3V		P127	RESET_IN#	VDD_IO		S7	I2C_CAM_DAT	VDD_IO		S67	GND		G	S127	LCD_BKLT_EN	VDD_IO	
P8	CSI1_D0-/PCAM_D3	VDD_IO		P68	GND		G	P128	POWER_BTN#	VDD_IO		S8	CSI0_CK+/PCAM_D10	VDD_IO		S68	RSVD/AFB			S128	LVDS1+	LCD	
P9	GND		G	P69	USB2+	USB		P129	SER0_TX	VDD_IO		S9	CSI0_CK-/PCAM_D11	VDD_IO		S69	RSVD/AFB			S129	LVDS1-	LCD	
P10	CSI1_D1+/PCAM_D4	VDD_IO		P70	USB2-	USB		P130	SER0_RX	VDD_IO		S10	GND		G	S70	RSVD/AFB			S130	GND		G
P11	CSI1_D1-/PCAM_D5	VDD_IO		P71	USB2_EN_OC#	+3.3V		P131	SER0_RTS#	VDD_IO		S11	CSI0_D0+/PCAM_D12	VDD_IO		S71	RSVD/AFB			S131	LVDS2+	LCD	
P12	GND		G	P72	PCIE_C_PRSNT#	+3.3V		P132	SER0_CTS#	VDD_IO		S12	CSI0_D0-/PCAM_D13	VDD_IO		S72	RSVD/AFB			S132	LVDS2-	LCD	
P13	CSI1_D2+/PCAM_D6	VDD_IO		P73	PCIE_B_PRSNT#	+3.3V		P133	GND		G	S13	GND		G	S73	RSVD/AFB			S133	LCD_VDD_EN	VDD_IO	
P14	CSI1_D2-/PCAM_D7	VDD_IO		P74	PCIE_A_PRSNT#	+3.3V		P134	SER1_TX	VDD_IO		S14	CSI0_D1+/PCAM_D14	VDD_IO		S74	RSVD/AFB			S134	LVDS_CK+	LCD	
P15	GND		G	P75	PCIE_A_RST#	+3.3V		P135	SER1_RX	VDD_IO		S15	CSI0_D1-/PCAM_D15	VDD_IO		S75	RSVD/AFB			S135	LVDS_CK-	LCD	
P16	CSI1_D3+/PCAM_D8	VDD_IO		P76	PCIE_C_CKREQ#	+3.3V		P136	SER2_TX	VDD_IO		S16	GND		G	S76	PCIE_B_RST#	+3.3V		S136	GND		G
P17	CSI1_D3-/PCAM_D9	VDD_IO		P77	PCIE_B_CKREQ#	+3.3V		P137	SER2_RX	VDD_IO		S17	AFB0_OUT	VDD_IO		S77	PCIE_C_RST#	+3.3V		S137	LVDS3+	LCD	
P18	GND		G	P78	PCIE_A_CKREQ#	+3.3V		P138	SER2_RTS#	VDD_IO		S18	AFB1_OUT	VDD_IO		S78	PCIE_C_RX+	PCIe		S138	LVDS3-	LCD	
P19	GBE_MDI3-	GBE		P79	GND		G	P139	SER2_CTS#	VDD_IO		S19	AFB2_OUT	VDD_IO		S79	PCIE_C_RX-	PCIe		S139	I2C_LCD_CK	VDD_IO	
P20	GBE_MDI3+	GBE		P80	PCIE_C_REFCK+	PCIe		P140	SER3_TX	VDD_IO		S20	AFB3_IN	VDD_IO		S80	GND		G	S140	I2C_LCD_DAT	VDD_IO	
P21	GBE_LINK100#	+3.3V		P81	PCIE_C_REFCK-	PCIe		P141	SER3_RX	VDD_IO		S21	AFB4_IN	VDD_IO		S81	PCIE_C_TX+	PCIe		S141	LCD_BKLT_PWM	VDD_IO	
P22	GBE_LINK1000#	+3.3V		P82	GND		G	P142	GND		G	S22	AFB5_IN	VDD_IO		S82	PCIE_C_TX-	PCIe		S142	LCD_DUAL_PCK	VDD_IO	
P23	GBE_MDI2-	GBE		P83	PCIE_A_REFCK+	PCIe		P143	CAN0_TX	VDD_IO		S23	AFB6_PTIO	VDD_IO		S83	GND			S143	GND		G
P24	GBE_MDI2+	GBE		P84	PCIE_A_REFCK-	PCIe		P144	CAN0_RX	VDD_IO		S24	AFB7_PTIO	VDD_IO		S84	PCIE_B_REFCK+	PCIe		S144	RSVD/EDP_HPD		
P25	GBE_LINK_ACT#	+3.3V		P85	GND			P145	CAN1_TX	VDD_IO		S25	GND		G	S85	PCIE_B_REFCK-	PCIe		S145	WDT_TIME_OUT#	VDD_IO	
P26	GBE_MDI1-	GBE		P86	PCIE_A_RX+	PCIe		P146	CAN1_RX	VDD_IO		S26	SDMMC_D0	VDD_IO		S86	GND		G	S146	PCIE_WAKE	+3.3V	
P27	GBE_MDI1+	GBE		P87	PCIE_A_RX-	PCIe		P147	VDD_IN	+5V		S27	SDMMC_D1	VDD_IO		S87	PCIE_B_RX+	PCIe		S147	VDD_RTC	+3.3V	
P28	GBE_CTREF	REF V		P88	GND		G	P148	VDD_IN	+5V		S28	SDMMC_D2	VDD_IO		S88	PCIE_B_RX-	PCIe		S148	LID#	VDD_IO	
P29	GBE_MDI0-	GBE		P89	PCIE_A_TX+	PCIe		P149	VDD_IN	+5V		S29	SDMMC_D3	VDD_IO		S89	GND		G	S149	SLEEP#	VDD_IO	
P30	GBE_MDI0+	GBE		P90	PCIE_A_TX-	PCIe		P150	VDD_IN	+5V		S30	SDMMC_D4	VDD_IO		S90	PCIE_B_TX+	PCIe		S150	VIN_PWR_BAD#	VDD_IN	
P31	SPI0_CS1#	+3.3V		P91	GND		G	P151	VDD_IN	+5V		S31	SDMMC_D5	VDD_IO		S91	PCIE_B_TX-	PCIe		S151	CHARGEING#	VDD_IO	
P32	GND		G	P92	HDMI_D2+	HDMI		P152	VDD_IN	+5V		S32	SDMMC_D6	VDD_IO		S92	GND		G	S152	CHARGE_PRSNT#	VDD_IO	
P33	SDIO_WP	+3.3V		P93	HDMI_D2-	HDMI		P153	VDD_IN	+5V		S33	SDMMC_D7	VDD_IO		S93	LCD_D0	VDD_IO		S153	CARRIER_STBY#	VDD_IO	
P34	SDIO_CMD	+3.3V		P94	GND		G	P154	VDD_IN	+5V		S34	GND		G	S94	LCD_D1	VDD_IO		S154	CARRIER_PWR_ON	VDD_IO	
P35	SDIO_CD#	+3.3V		P95	HDMI_D1+	HDMI		P155	VDD_IN	+5V		S35	SDMMC_CK	VDD_IO		S95	LCD_D2	VDD_IO		S155	FORCE_RECOV#	VDD_IO	
P36	SDIO_CK	+3.3V		P96	HDMI_D1-	HDMI		P156	VDD_IN	+5V		S36	SDMMC_CMD	VDD_IO		S96	LCD_D3	VDD_IO		S156	BATLOW#	VDD_IO	
P37	SDIO_PWR_EN	+3.3V		P97	GND		G					S37	SDMMC_RST#	VDD_IO		S97	LCD_D4	VDD_IO		S157	TEST#	VDD_IO	
P38	GND		G	P98	HDMI_D0+	HDMI						S38	AUDIO_MCK	VDD_IO		S98	LCD_D5	VDD_IO		S158	GND		G
P39	SDIO_D0	+3.3V		P99	HDMI_D0-	HDMI						S39	I2S0_LRCK	VDD_IO		S99	LCD_D6	VDD_IO					
P40	SDIO_D1	+3.3V		P100	GND							S40	I2S0_SDOUT	VDD_IO		S100	LCD_D7	VDD_IO					
P41	SDIO_D2	+3.3V		P101	HDMI_CK+	HDMI						S41	I2S0_SDIN	VDD_IO		S101	GND		G				
P42	SDIO_D3	+3.3V		P102	HDMI_CK-	HDMI						S42	I2S0_CK	VDD_IO		S102	LCD_D8	VDD_IO					
P43	SPI0_CS0#	VDD_IO		P103	GND		G					S43	I2S1_LRCK	VDD_IO		S103	LCD_D9	VDD_IO					
P44	SPI0_CK	VDD_IO		P104	HDMI_HPD	VDD_IO						S44	I2S1_SDOUT	VDD_IO		S104	LCD_D10	VDD_IO					
P45	SPI0_DIN	VDD_IO		P105	HDMI_CTRL_CK	VDD_IO						S45	I2S1_SDIN	VDD_IO		S105	LCD_D11	VDD_IO					
P46	SPI0_DO	VDD_IO		P106	HDMI_CTRL_DAT	VDD_IO						S46	I2S1_CK	VDD_IO		S106	LCD_D12	VDD_IO					
P47	GND		G	P107	HDMI_CEC	VDD_IO						S47	GND		G	S107	LCD_D13	VDD_IO					
P48	SATA_TX+	SATA		P108	GPIO0/CAM0_PWRDN#	VDD_IO						S48	I2C_GP_CK	VDD_IO		S108	LCD_D14	VDD_IO					
P49	SATA_TX-	SATA		P109	GPIO1/CAM1_PWRDN#	VDD_IO						S49	I2C_GP_DAT	VDD_IO		S109	LCD_D15	VDD_IO					
P50	GND			P110	GPIO2/CAM0_RST#	VDD_IO						S50	I2S2_LRCK	VDD_IO		S110	GND		G				
P51	SATA_RX+	SATA		P111	GPIO3/CAM1_RST#	VDD_IO						S51	I2S2_SDOUT	VDD_IO		S111	LCD_D16	VDD_IO					
P52	SATA_RX-	SATA		P112	GPIO4/PCAM_FLD	VDD_IO						S52	I2S2_SDIN	VDD_IO		S112	LCD_D17	VDD_IO					
P53	GND		G	P113	GPIO5/HDA_RST#	VDD_IO						S53	I2S2_CK	VDD_IO		S113	LCD_D18	VDD_IO					
P54	SPI1_CS0#	VDD_IO		P114	GPIO6	VDD_IO						S54	SATA_ACT#	+3.3V		S114	LCD_D19	VDD_IO					
P55	SPI1_CS1#	VDD_IO		P115	GPIO7	VDD_IO						S55	AFB8_PTIO	VDD_IO		S115	LCD_D20	VDD_IO					
P56	SPI1_CK	VDD_IO		P116	GPIO8/CAN0_ERR	VDD_IO						S56	AFB9_PTIO	VDD_IO		S116	LCD_D21	VDD_IO					
P57	SPI1_DIN	VDD_IO		P117	GPIO9/CAN1_ERR	VDD_IO						S57	PCAM_ON_CSI0#	VDD_IO		S117	LCD_D22	VDD_IO					
P58	SPI1_DO	VDD_IO		P118	GPIO10/PWM_OUT	VDD_IO						S58	PCAM_ON_CSI1#	VDD_IO		S118	LCD_D23	VDD_IO					
P59	GND		G	P119	GPIO11/PWM_TACHIN	VDD_IO						S59	SPDIF_OUT	VDD_IO		S119	GND		G				
P60	USB0+	USB		P120	GND		G					S60	SPDIF_IN	VDD_IO		S120	LCD_DE	VDD_IO					

Green:Not Use

I2C1-->PMIC,G-S,

I2C2-->RTC, LVDS, AUDIO, EEPROM, KEYPAD, PCIEx1

I2C3-->HDMI ,CAMERA

UART1-->DB9

UART2-->Console

UART3-->BT

UART4-->GPS

MMC1-->I-NAND;Mirco-SD

MMC2-->WIFI

MCSPI1-->Touch

McBSP3-->BT

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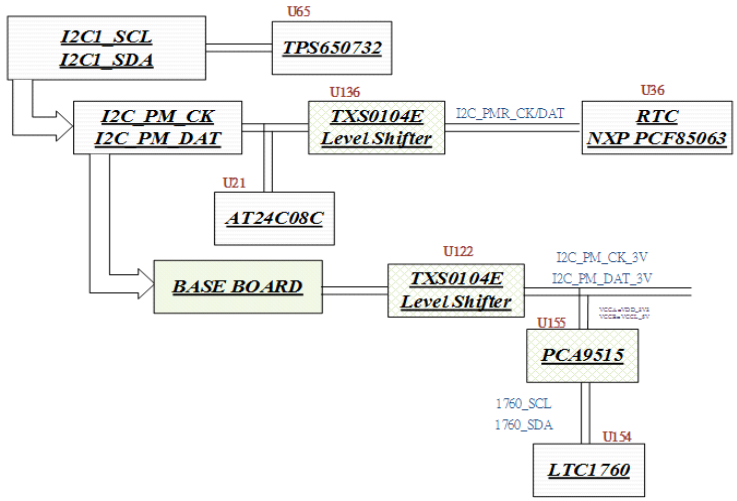
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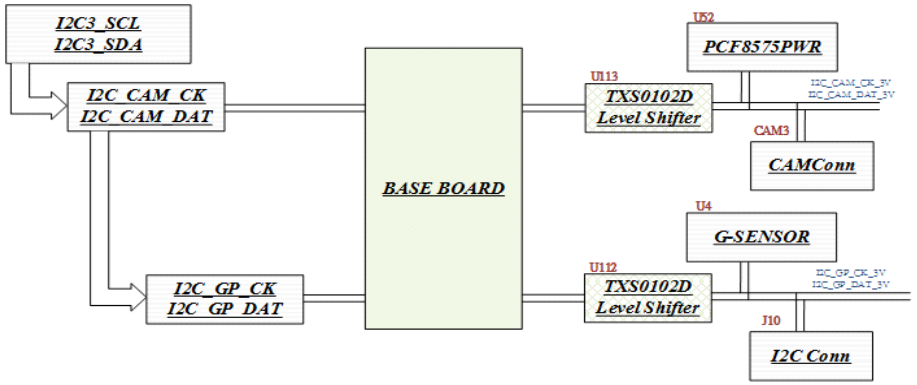
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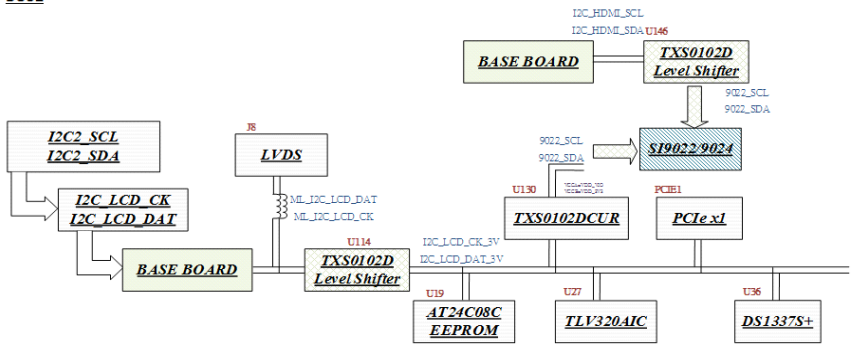
BUS1



BUS3



BUS2



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