UL = UnLoaded = normally not mounted component.

Default jumper settings are indicated in the schematic.
However, always check jumper positions on actual boards
since there is no guarantee that all jumpers are in default place.

Rev B2
Changed to alphabetical numbering of UART, SPI and I2C.

Rev B-B1
Several small enhancements. Added battery charging.
Corrected D17, D23 and D24.

Rev A
Correct U5 pinning error. Added R139 (100K). Change C13.
Correct Q1 pinning. Change L17/L24 to UL.
Added SJ8 for uSD/MMC powering from COM board.
Added H3, J35, JP4/JP6, LED8, Q17/Q18/Q19, U16/U19,
U20, R139/ R145/R146/R141/R147/R148/R178/R179,
R180/R181/R143, SJ12, C113/C132/C133/C134/C109,
C139/C111/C112/C135/C136/C137/C138

TITLE: COM Carrier Board rev B2

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EACOM Board connector (MXM3)

J1B

MXM3 connector

bottom side top side

				S158	GND		
PCIE_RX_N	319	PCIE_RX_N	VIN	S157	PCIE_RX_N	VIN	P156
PCIE_RX_P	317	PCIE_RX_P	VIN	S156	PCIE_RX_P	VIN	P155
	315	GND	VIN	S155	GND	VIN	P154
PCIE_TX_N	313	PCIE_TX_N	VIN	S154	PCIE_TX_N	VIN	P153
PCIE_TX_P	311	PCIE_TX_P	VIN	S153	PCIE_TX_P	VIN	P152
	309	GND	VIN	S152	GND	VIN	P151
PCIE_CLK_N	307	PCIE_CLK_N	VIN	S151	PCIE_CLK_N	VIN	P150
PCIE_CLK_P	305	PCIE_CLK_P	VIN	S150	PCIE_CLK_P	VIN	P149
	303	GND	VIN	S149	GND	VIN	P148
	301	GND	VIN	S148	GND	VIN	P147
SATA_RXP	299	SATA_RX_P	E2PROM_WP	S147	SATA_RX_P	E2PROM_WP	P146
SATA_RXN	297	SATA_RX_N	VBAT	S146	SATA_RX_N	VBAT	P145
	295	GND	GND	S145	GND	GND	P144
SATA_TXN	293	SATA_TX_N	RESET_OUT	S144	SATA_TX_N	RESET_OUT	P143
SATA_TXP	291	SATA_TX_P	RESET_IN	S143	SATA_TX_P	RESET_IN	P142
	289	GND	PERI_PWR_EN	S142	GND	PERI_PWR_EN	P141
CSI_CLK0P	287	CSI_CLK_P	GPIO1	S141	CSI_CLK_P	GPIO1	P140
CSI_CLK0M	285	CSI_CLK_M	GPIO2	S140	CSI_CLK_M	GPIO2	P139
	283	GND	PWM	S139	GND	PWM	P138
CSI_D0P	281	CSI_D0_P	UART-A_TXD	S138	CSI_D0_P	UART-A_TXD	P137
CSI_D0M	279	CSI_D0_M	UART-A_RTS	S137	CSI_D0_M	UART-A_RTS	P136
	277	GND	UART-A_CTS	S136	GND	UART-A_CTS	P135
CSI_D1P	275	CSI_D1_P	UART-A_RXD	S135	CSI_D1_P	UART-A_RXD	P134
CSI_D1M	273	CSI_D1_M	UART-B_TXD	S134	CSI_D1_M	UART-B_TXD	P133
	271	GND	UART-B_RTS	S133	GND	UART-B_RTS	P132
CSI_D2P	269	CSI_D2_P	UART-B_CTS	S132	CSI_D2_P	UART-B_CTS	P131
CSI_D2M	267	CSI_D2_M	UART-B_RXD	S131	CSI_D2_M	UART-B_RXD	P130
	265	GND	UART-C_TXD	S130	GND	UART-C_TXD	P129
CSI_D3P	263	CSI_D3_P	UART-C_RXD	S129	CSI_D3_P	UART-C_RXD	P128
CSI_D3M	261	CSI_D3_M	GND	S128	CSI_D3_M	GND	P127
	259	GND	SPI-A_CLK	S127	GND	SPI-A_CLK	P126
CSI_DATA07	257	CSI_D7	SPI-A_MISO	S126	CSI_D7	SPI-A_MISO	P125
CSI_DATA06	255	CSI_D6	SPI-A_MOSI	S125	CSI_D6	SPI-A_MOSI	P124
CSI_DATA05	253	CSI_D5	SPI-A_SSEL	S124	CSI_D5	SPI-A_SSEL	P123
CSI_DATA04	251	CSI_D4	SPI-B_CLK	S123	CSI_D4	SPI-B_CLK	P122
CSI_DATA03-TP_IRQ_LCD	249	CSI_D3	SPI-B_MISO	S122	CSI_D3	SPI-B_MISO	P121
CSI_DATA02-XBEE_RST	247	CSI_D2	SPI-B_MOSI	S121	CSI_D2	SPI-B_MOSI	P120
CSI_DATA01	245	CSI_D1	SPI-B_SSEL	S120	CSI_D1	SPI-B_SSEL	P119
CSI_DATA00	243	CSI_D0	GND	S119	CSI_D0	GND	P118
	241	GND	COM specific	S118	GND	COM specific	P117
CSI_PIXCLK	239	CSI_PCLK	COM specific	S117	CSI_PCLK	COM specific	P116
CSI_MCLK	237	CSI_MCLK	COM specific	S116	CSI_MCLK	COM specific	P115
CSI_VSYNC	235	CSI_VSYNC	COM specific	S115	CSI_VSYNC	COM specific	P114
CSI_HSYNC	233	CSI_HSYNC	COM specific	S114	CSI_HSYNC	COM specific	P113
GPIO_32-SCAM_DATA	231	COM specific	COM specific	S113	COM specific	COM specific	P112
GPIO_33-SCAM_CLK	229	COM specific	COM specific	S112	COM specific	COM specific	P111
GPIO_34	227	COM specific	COM specific	S111	COM specific	COM specific	P110
GPIO_35	225	COM specific	COM specific	S110	COM specific	COM specific	P109
GPIO_36	223	COM specific	COM specific	S109	COM specific	COM specific	P108
GPIO_37	221	COM specific	COM specific	S108	COM specific	COM specific	P107
GPIO_38	219	COM specific	COM specific	S107	COM specific	COM specific	P106
GPIO_39	217	COM specific	COM specific	S106	COM specific	COM specific	P105
GPIO_40	215	COM specific	COM specific	S105	COM specific	COM specific	P104
	213	GND	COM specific	S104	GND	COM specific	P103
VADC_IN0	211	COM specific	COM specific	S103	COM specific	COM specific	P102
VADC_IN1	209	COM specific	COM specific	S102	COM specific	COM specific	P101
	207	GND	COM specific	S101	GND	COM specific	P100
VADC_IN2	205	COM specific	COM specific	S100	COM specific	COM specific	P99
VADC_IN3	203	COM specific	COM specific	S99	COM specific	COM specific	P98
	201	GND	COM specific	S98	GND	COM specific	P97
ADC1_IN0	199	AIN0	COM specific	S97	AIN0	COM specific	P96
ADC1_IN1	197	AIN1	COM specific	S96	AIN1	COM specific	P95
ADC1_IN2-GPIO	195	AIN2	COM specific	S95	AIN2	COM specific	P94
ADC1_IN3-GPIO	193	AIN3	COM specific	S94	AIN3	COM specific	P93
ADC2_IN0-GPIO	191	AIN4	COM specific	S93	AIN4	COM specific	P92
ADC2_IN1-GPIO	189	AIN5	GND	S92	AIN5	GND	P91
ADC2_IN2-GPIO	187	AIN6	USB_H2_DP	S91	AIN6	USB_H2_DP	P90
ADC2_IN3-GPIO	185	AIN7	USB_H2_DN	S90	AIN7	USB_H2_DN	P89
ADC_VREFH-GPIO	183	AIN_VREF	GND	S89	AIN_VREF	GND	P88
	181	GND	USB_H2_OC	S88	GND	USB_H2_OC	P87
LCD_ENABLE	179	LCD_ENABLE	USB_H2_PWR_EN	S87	LCD_ENABLE	USB_H2_PWR_EN	P86
LCD_VSYNC	177	LCD_VSYNC	USB_H1_VBUS	S86	LCD_VSYNC	USB_H1_VBUS	P85
LCD_HSYNC	175	LCD_HSYNC	USB_H1_SSRXP	S85	LCD_HSYNC	USB_H1_SSRXP	P84
LCD_DISP_EN-GPIO	173	GPIO7	USB_H1_SSRXN	S84	GPIO7	USB_H1_SSRXN	P83
LCD_CLK	171	LCD_CLK	GND	S83	LCD_CLK	GND	P82
LCD_DATA07	169	LCD_B7	USB_H1_SSTXP	S82	LCD_B7	USB_H1_SSTXP	P81
LCD_DATA06	167	LCD_B6	USB_H1_SSTXN	S81	LCD_B6	USB_H1_SSTXN	P80
LCD_DATA05	165	LCD_B5	USB_H1_DP	S80	LCD_B5	USB_H1_DP	P79
LCD_DATA04	163	LCD_B4	USB_H1_DN	S79	LCD_B4	USB_H1_DN	P78
LCD_DATA03	161	LCD_B3	GND	S78	LCD_B3	GND	P77
LCD_DATA02	159	LCD_B2	USB_H1_OC	S77	LCD_B2	USB_H1_OC	P76
LCD_DATA01	157	LCD_B1	USB_H1_PWR_EN	S76	LCD_B1	USB_H1_PWR_EN	P75

GND

Note: Replace with 0R05 to measure current

R1 0R R2 0R VIN_3V3

C147 100U/10V

JP1

GND GND

J2

GND

320			
318			
316			
314			
312			
310			
308			
306			
304			
302			
300	F2PROM_WP		
298	VBAT_COM_BRD		
296			
294	RESET_OUT		
292	RESET_IN		
290	PERI_PWR_EN		
288	GPIO_0-PCIE_WAKE		
286	GPIO_1-PCIE_PERST		
284	PWM_1-LVDS0_BL_CTRL		
282	UART-A_TXD		
280	UART-A_RTS		
278	UART-A_CTS		
276	UART-A_RXD		
274	UART-B_TXD		
272	UART-B_RTS		
270	UART-B_CTS		
268	UART-B_RXD		
266	UART-C_TXD		
264	UART-C_RXD		
262			
260	SPI-A_SCLK		
258	SPI-A_MISO		
256	SPI-A_MOSI		
254	SPI-A_SSEL		
252	SPI-B_SCLK		
250	SPI-B_MISO		
248	SPI-B_MOSI		
246	SPI-B_SSEL		
244			
242	GPIO_2-SATA_SLEEP		
240	GPIO_3-LVDS1_PWR_EN		
238	GPIO_4-LVDS1_BL_PWR_EN		
236	GPIO_5-LVDS1_CAP_TCH_INT		
234	GPIO_6-RF_ON		
232	GPIO_7		
230	GPIO_8		
228	GPIO_9		
226	GPIO_10		
224	GPIO_11		
222	GPIO_12		
220	GPIO_13		
218	GPIO_14		
216	GPIO_15		
214	GPIO_16		
212	GPIO_17		
210	GPIO_18		
208	GPIO_19		
206	GPIO_20		
204	GPIO_21		
202	GPIO_22		
200	GPIO_23		
198	GPIO_24		
196	GPIO_25		
194	GPIO_26		
192	GPIO_27		
190			
188			TP5
186			TP6
184			
182	ONOFF		
180			TP7
178	USB_HOST_VBUS		
176			TP8
174			TP9
172			
170			TP10
168			TP11
166	USB_HOST_DP		
164	USB_HOST_DN		
162			
160	USB_HOST_OC		
158	USB_HOST_PWR		

GND

J1A

MXM3 connector

bottom side top side

LCD_DATA00	149			S75	LCD_B0		
	147			S74	GND	USB_O1_OC	P74
LCD_DATA15	145			S73	LCD_G7	USB_O1_PWR_EN	P73
LCD_DATA14	143			S72	LCD_G6	USB_O1_VBUS	P72
LCD_DATA13	141			S71	LCD_G5	USB_O1_SSRXP	P71
LCD_DATA12	139			S70	LCD_G4	USB_O1_SSRXN	P70
LCD_DATA11	137			S69	LCD_G3	GND	P69
LCD_DATA10	135			S68	LCD_G2	USB_O1_SSTXP	P68
LCD_DATA09	133			S67	LCD_G1	USB_O1_SSTXN	P67
LCD_DATA08	131			S66	LCD_G0	USB_O1_OTG_ID	P66
LCD_DATA23	129			S65	LCD_R7	USB_O1_DP	P65
LCD_DATA22	127			S64	LCD_R6	USB_O1_DN	P64
LCD_DATA21	125			S63	LCD_R5	GND	P63
LCD_DATA20	123			S62	LCD_R4	ETH2_MD2_P	P62
LCD_DATA19	121			S61	LCD_R3	ETH2_MD2_N	P61
LCD_DATA18	119			S60	LCD_R2	GND	P60
LCD_DATA17	117			S59	LCD_R1	ETH2_MD3_P	P59
LCD_DATA16	115			S58	LCD_R0	ETH2_MD3_N	P58
	113			S57	GND	ETH2_LINK	P57
BL_CONTRAST_PWM-GPIO	111			S56	BL_PWM	ETH2_ACT	P56
BL_PWR_EN-GPIO	109			S55	BL_PWR_EN	ETH2_LINK1000	P55
DISP_PWR_EN-GPIO	107			S54	DISP_PWR_EN	ETH2_MD0_N	P54
TP_IRQ-GPIO	105			S53	TP_IRQ	ETH2_MD0_P	P53
TP_RST-GPIO	103			S52	TP_RST	GND	P52
I2C-C_SCL	101			S51	HDMI/I2C-C_SCL	ETH2_MD1_N	P51
I2C-C_SDA	99			S50	HDMI/I2C-C_SDA	ETH2_MD1_P	P50
I2C-B_SCL	97			S49	I2C-B_SCL	GND	P49
I2C-B_SDA	95			S48	I2C-B_SDA	ETH1_MD2_P	P48
I2C-A_SCL	93			S47	I2C-A_SCL	ETH1_MD2_N	P47
I2C-A_SDA	91			S46	I2C-A_SDA	GND	P46
LVDS0_CLK_N	89			S45	LVDS0_CLK_N	ETH1_MD3_P	P45
LVDS0_CLK_P	87			S44	LVDS0_CLK_P	ETH1_MD3_N	P44
	85			S43	GND	ETH1_LINK	P43
LVDS0_DATA0_N	83			S42	LVDS0_D0_N	ETH1_ACT	P42
LVDS0_DATA0_P	81			S41	LVDS0_D0_P	ETH1_LINK1000	P41
	79			S40	GND	ETH1_MD0_N	P40
LVDS0_DATA1_N	77			S39	LVDS0_D1_N	ETH1_MD0_P	P39
LVDS0_DATA1_P	75			S38	LVDS0_D1_P	GND	P38
	73			S37	GND	ETH1_MD1_N	P37
LVDS0_DATA2_N	71			S36	LVDS0_D2_N	ETH1_MD1_P	P36
LVDS0_DATA2_P	69			S35	LVDS0_D2_P	GND	P35
GPIO_41	67			S34	GPIO8	HDMI_CEC	P34
LVDS0_DATA3_N	65			S33	LVDS0_D3_N	HDMI_TXD2_P	P33
LVDS0_DATA3_P	63			S32	LVDS0_D3_P	HDMI_TXD2_N	P32
	61			S31	GND	GND	P31
LVDS1_CLK_N	59			S30	LVDS1_CLK_N	HDMI_TXD1_P	P30
LVDS1_CLK_P	57			S29	LVDS1_CLK_P	HDMI_TXD1_N	P29
	55			S28	GND	HDMI_HPD	P28
LVDS1_DATA0_N	53			S27	LVDS1_D0_N	HDMI_TXD0_P	P27
LVDS1_DATA0_P	51			S26	LVDS1_D0_P	HDMI_TXD0_N	P26
	49			S25	GND	GND	P25
LVDS1_DATA1_N	47			S24	LVDS1_D1_N	HDMI_TXC_P	P24
LVDS1_DATA1_P	45			S23	LVDS1_D1_P	HDMI_TXC_N	P23
	43			S22	GND	GND	P22
LVDS1_DATA2_N	41			S21	LVDS1_D2_N	MMC_D2	P21
LVDS1_DATA2_P	39			S20	LVDS1_D2_P	MMC_D3	P20
GPIO_42	37			S19	GPIO9	MMC_D4	P19
LVDS1_DATA3_N	35			S18	LVDS1_D3_N	MMC_CMD	P18
LVDS1_DATA3_P	33			S17	LVDS1_D3_P	MMC_D5	P17
	31			S16	GND	MMC_CLK	P16
CAN1_RD	29			S15	CAN1_RX	MMC_D6	P15
CAN1_TD	27			S14	CAN1_TX	MMC_D7	P14
CAN2_RD	25			S13	CAN2_RX	MMC_D0	P13
CAN2_TD	23			S12	CAN2_TX	MMC_D1	P12
SPDIF_OUT-GPIO	21			S11	SPDIF_OUT	SD_VCC	P11
SPDIF_IN-GPIO	19			S10	SPDIF_IN	SD_D2	P10
	17			S9	GND	SD_D3	P9
AUD_MCLK	15			S8	AUDIO_MCLK	SD_CMD	P8
AUD_TXD	13			S7	AUDIO_TXD	SD_CLK	P7
AUD_TXC	11			S6	AUDIO_TXC	SD_D0	P6
AUD_RXD	9			S5	AUDIO_RXD	SD_D1	P5
AUD_TXFS	7			S4	AUDIO_TXFS	GPIO3	P4
	5			S3	GND	GPIO4	P3
MQS_LEFT-GPIO	3			S2	MQS_LEFT	GPIO5	P2
MQS_RIGHT-GPIO	1			S1	MQS_RIGHT	GPIO6	P1

GND

148			USB_OTG_OC
146			USB_OTG_PWR
144			USB_OTG_VBUS
142			TP1
140			TP2
138			
136			TP3
134			TP4
132			USB_OTG_ID
130			USB_OTG_DP
128			USB_OTG_DN
126			
124			ETH2_TRXP2
122			ETH2_TRXN2
120			
118			ETH2_TRXP3
116			ETH2_TRXN3
114			ETH2_LED_10_100
112			ETH2_LED_ACT
110			ETH2_LED_1000
108			ETH2_TRXN0
106			ETH2_TRXP0
104			
102			ETH2_TRXN1
100			ETH2_TRXP1
98			
96			ETH1_TRXP2
94			ETH1_TRXN2
92			
90			ETH1_TRXP3
88			ETH1_TRXN3
86			ETH1_LED_10_100
84			ETH1_LED_ACT
82			ETH1_LED_1000
80			ETH1_TRXN0
78			ETH1_TRXP0
76			
74			ETH1_TRXN1
72			ETH1_TRXP1
70			
68			HDMI_CEC_IN
66			HDMI_D2P
64			HDMI_D2M
62			
60			HDMI_D1P
58			HDMI_D1M
56			HDMI_HPD
54			HDMI_D0P
52			HDMI_D0M
50			
48			HDMI_CLKP
46			HDMI_CLKM
44			
42			MMC_DATA2
40			MMC_DATA3
38			MMC_DATA4
36			MMC_CMD
34			MMC_DATA5
32			MMC_CLK
30			MMC_DATA6
28			MMC_DATA7
26			MMC_DATA0
24			MMC_DATA1
22			SD_PWR
20			SD_DATA2
18			SD_DATA3
16			SD_CMD
14			SD_CLK
12			SD_DATA0
10			SD_DATA1
8			GPIO_28-SD_PWR_EN
6			GPIO_29-SD_CD
4			GPIO_30-PCIE_DISABLE
2			GPIO_31-CAN_STBY

GND

SMARC mounting holes

H1 4.3mm
H2 4.3mm
H4 4.3mm
H5 4.3mm

SMTSO-M3-5ET

GND

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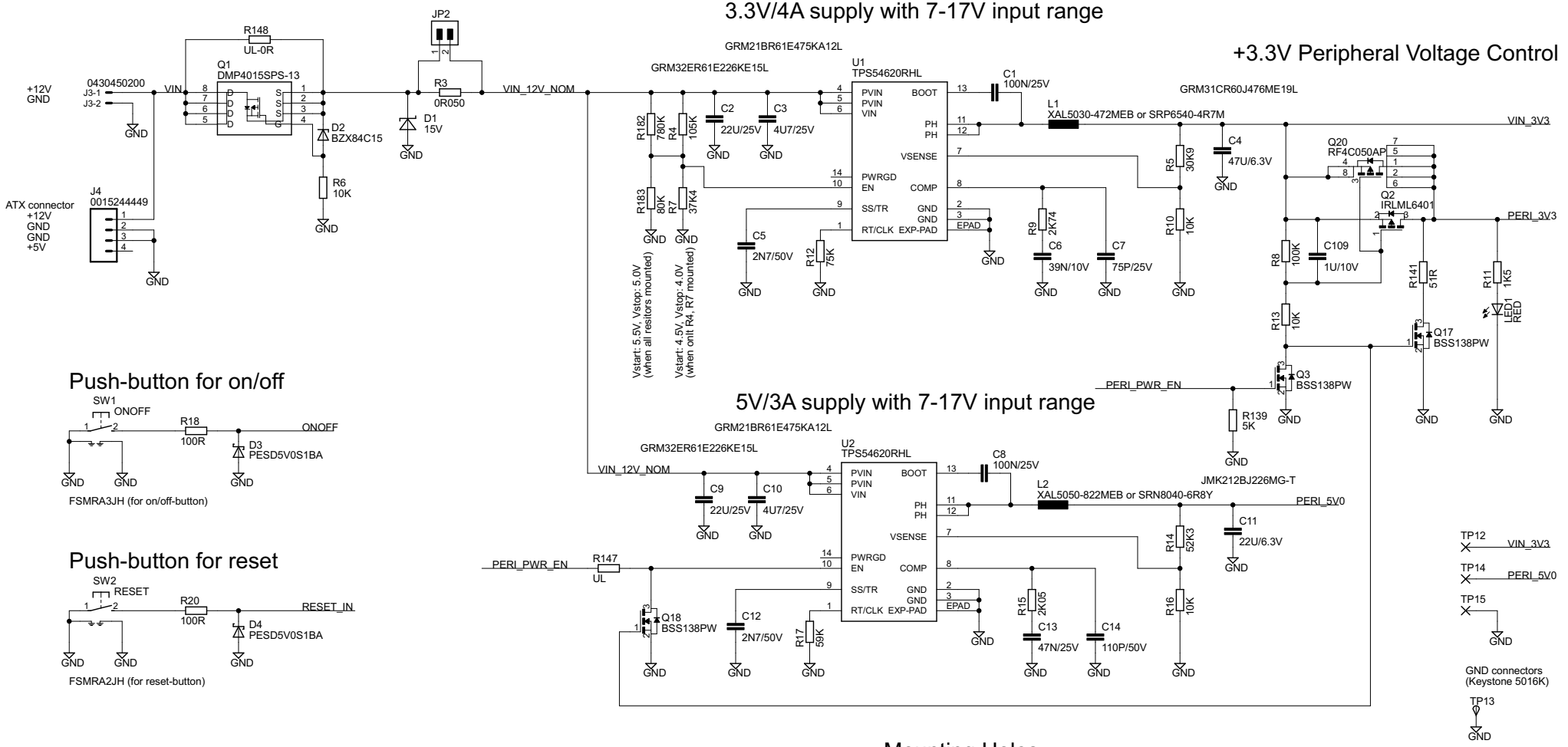
Power Supply Input



(C) Embedded Artists AB	
TITLE: COM Carrier Board rev B2	
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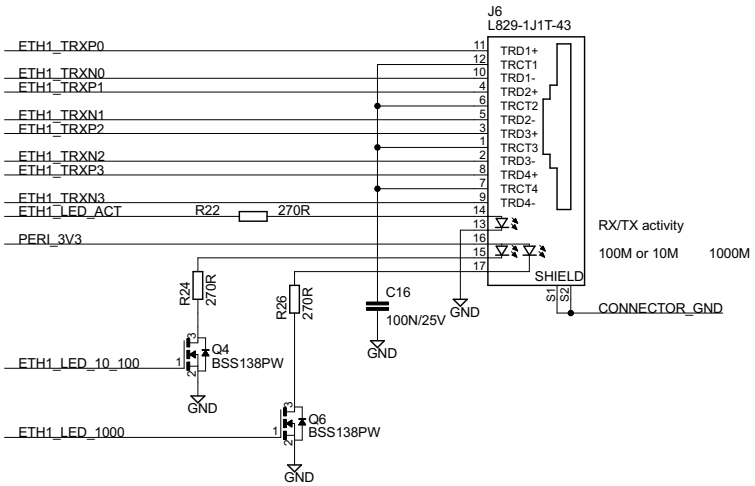
Date: 2018-04-27 10:58:37	Sheet: 3/19

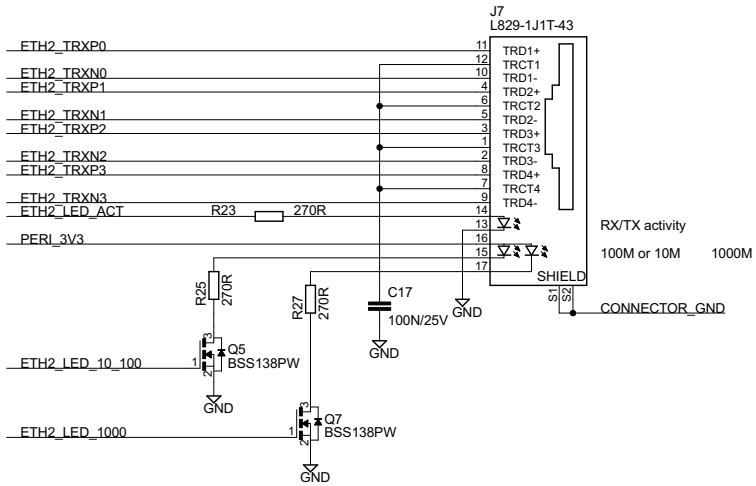
Note: This design is not recommended for customer carrier boards since VBAT will be above maximum recommended voltage (3.6V). A 3.3V LDO is recommended to control the voltage below 3.6V.

Ethernet interfaces

Ethernet Interface #1



Ethernet Interface #2



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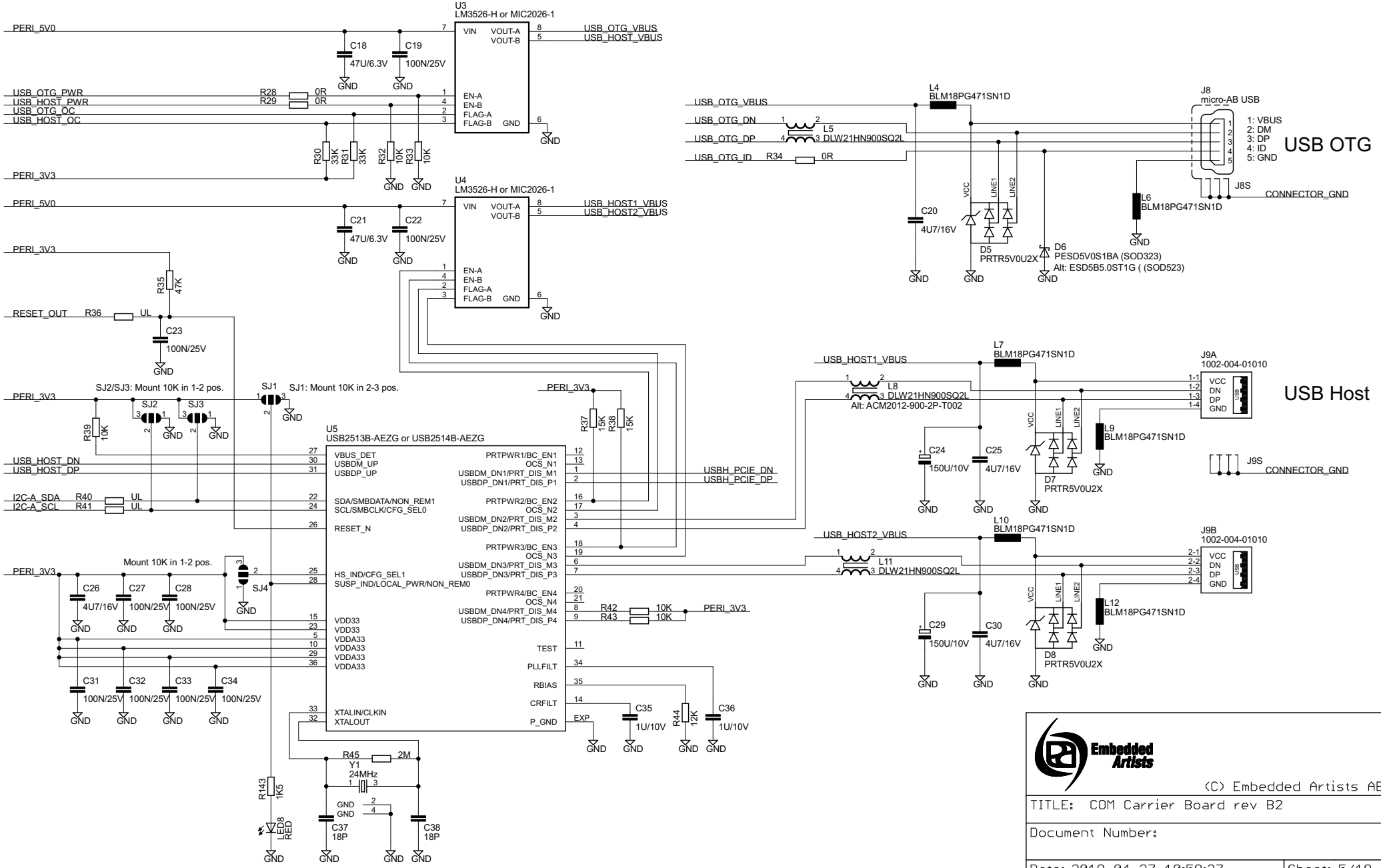
USB Interfaces



TITLE: COM Carrier Board rev B2	
Document Number:	
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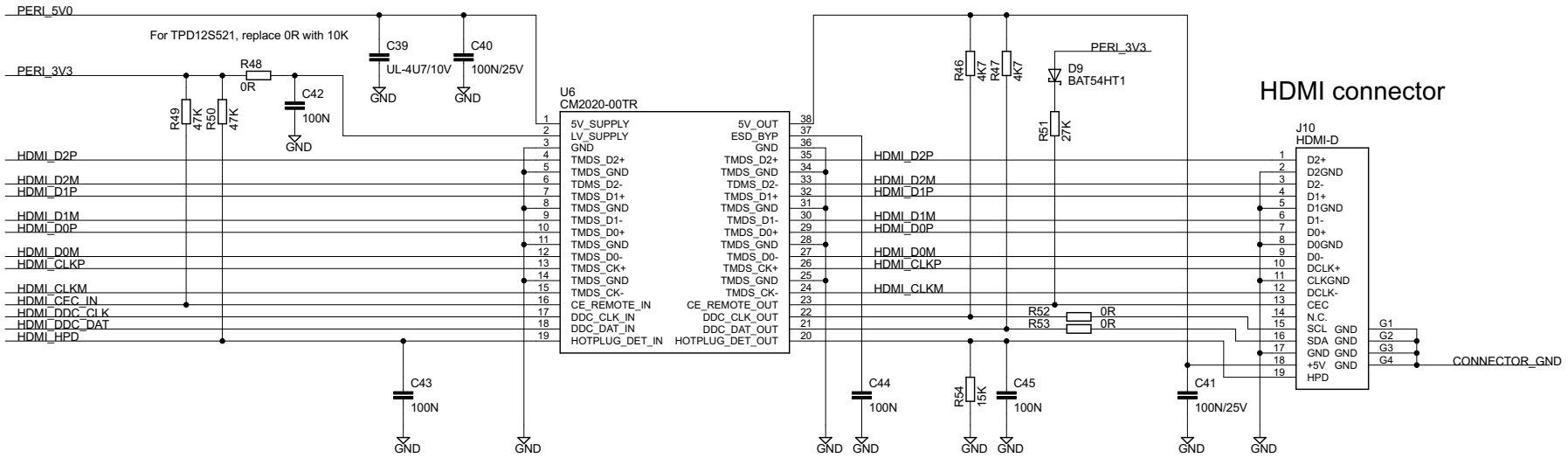
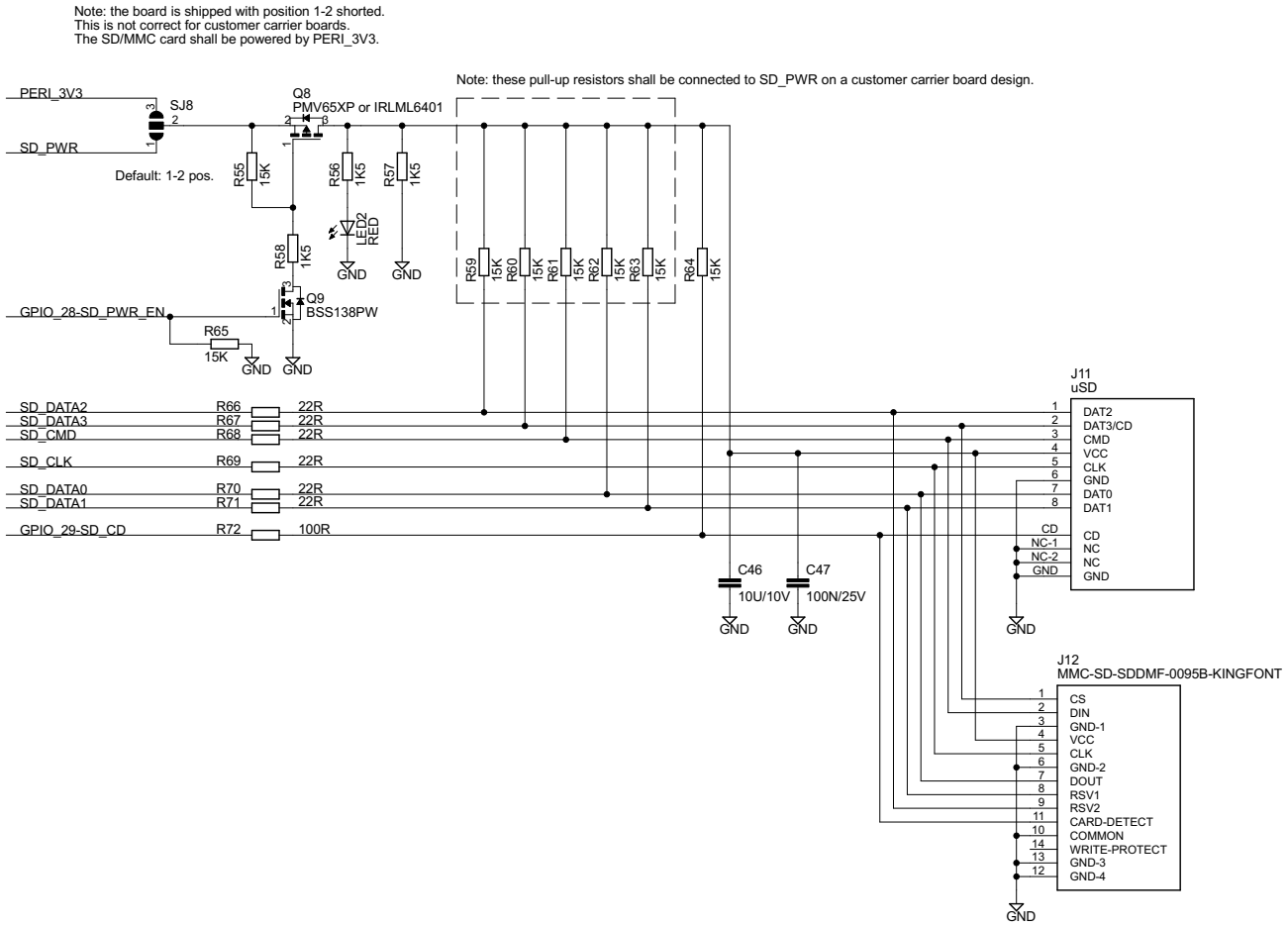
HDMI Interface



Embedded Artists

TITLE: COM Carrier Board rev B2	
Document Number:	
Date: 2018-04-27 10:58:37	Sheet: 6/19

uSD Memory Card Interface



TITLE: COM Carrier Board rev B2

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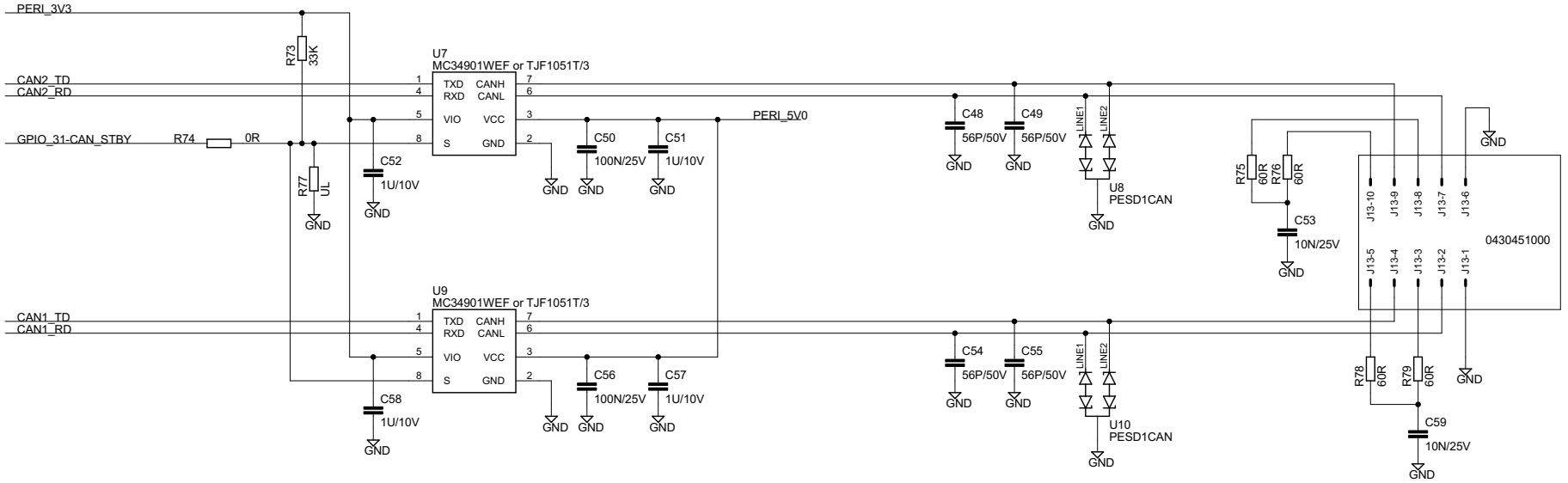
CAN Interfaces

CAN transceivers



TITLE: COM Carrier Board rev B2	
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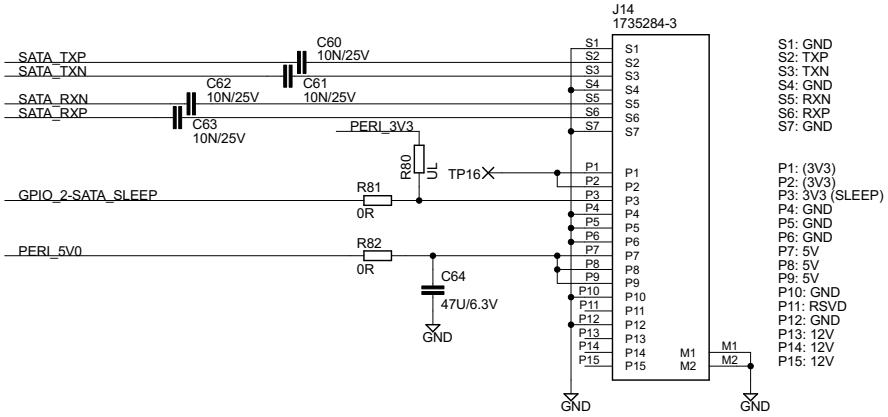
SATA Interface

22 pos SATA Connector



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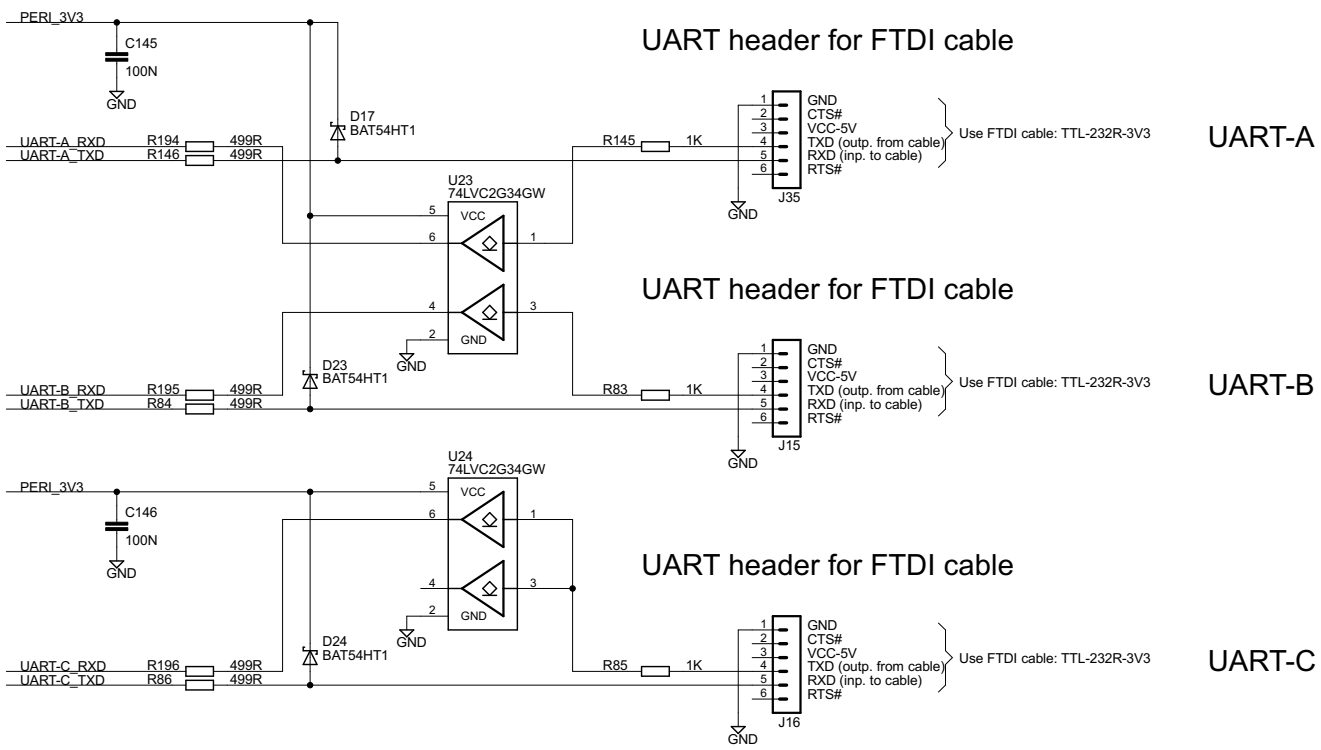
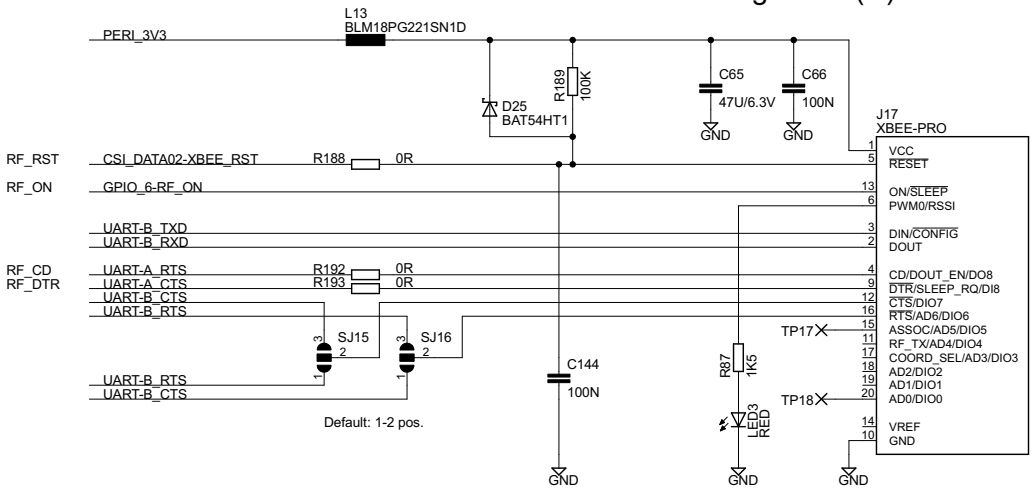
UART Interfaces



Digi XBee(R) RF-module



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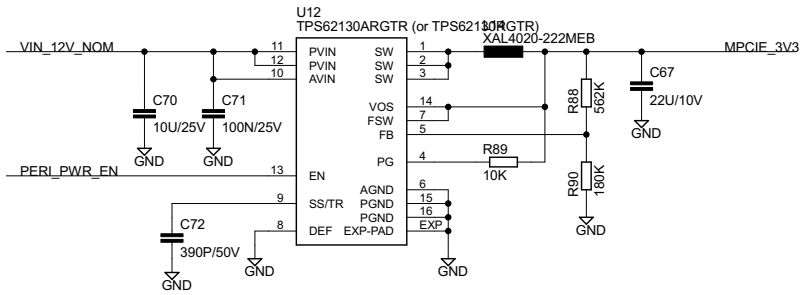
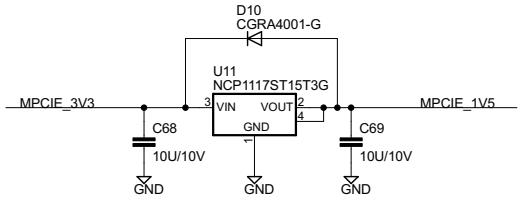
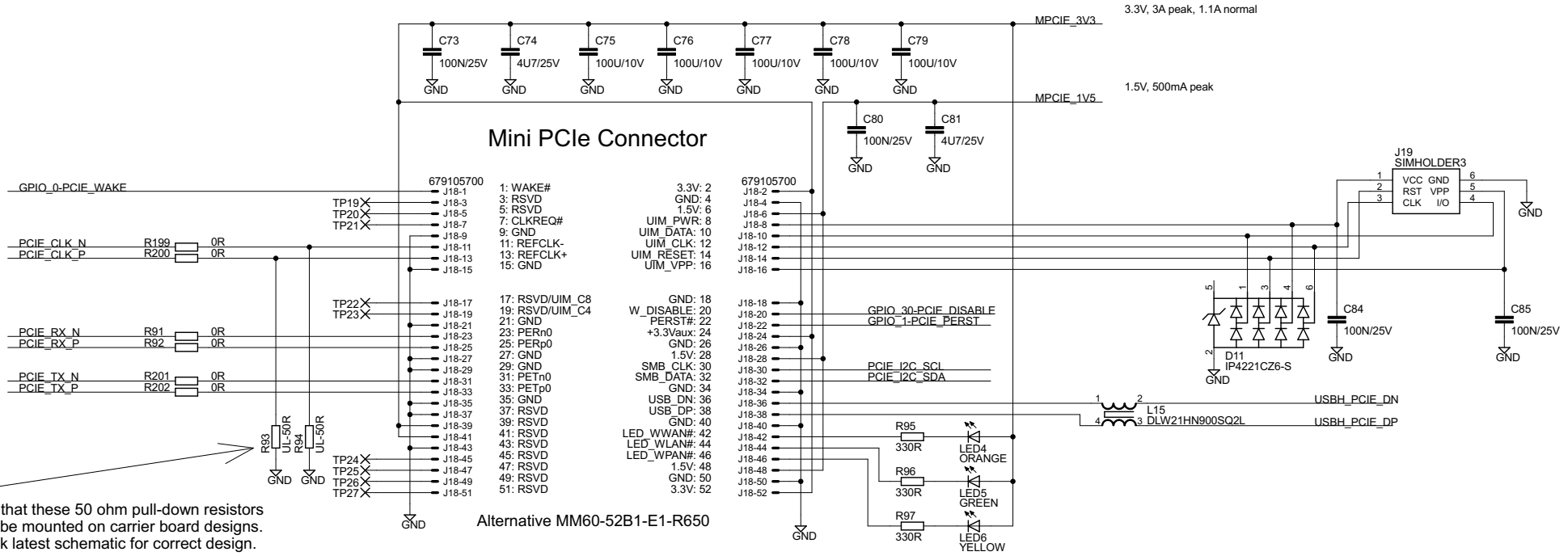
PCIe Interface

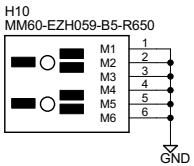
Vin: 4.5-17V, Vout: 3.3V/3A







Mini PCIe board fastening



Alternative: Molex 0480995701

Embedded Artists

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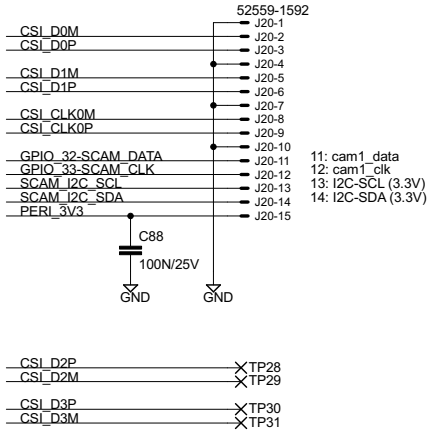
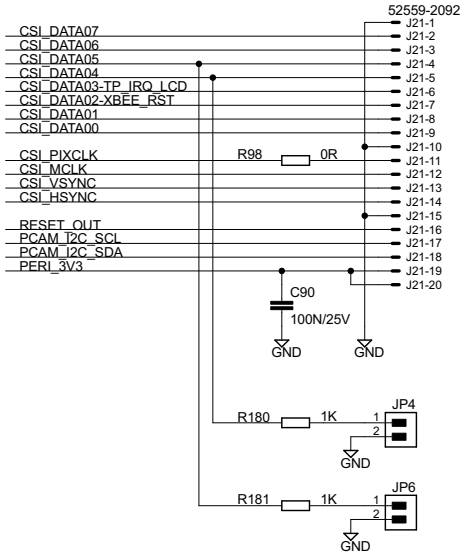
Camera / Display Interfaces

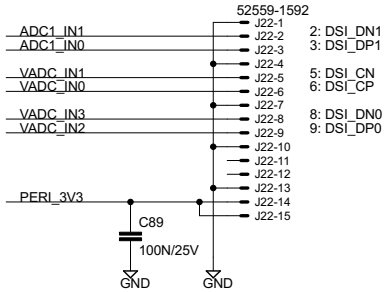
RPI serial camera (MIPI)



Parallel camera interface (+3.3V logic levels)



RPI serial display (MIPI) or VADC signals



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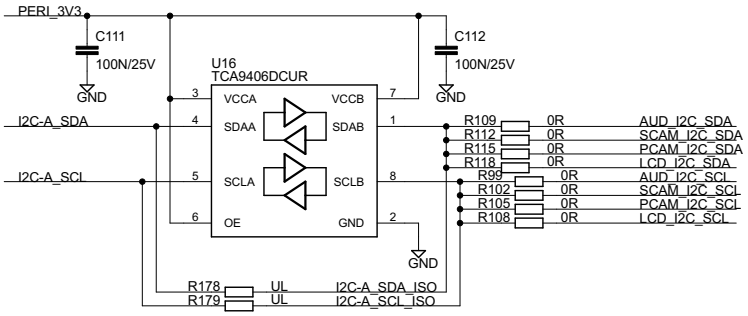
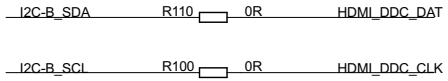
I2C Connections

I2C-A

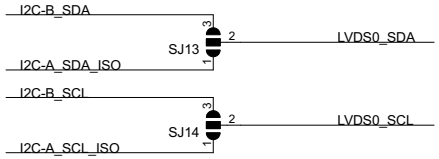


Audio codec: WM8731SEDS
8-bit I2C address (0x34/0x35): 0.0.1.1.0.1.0.RW
7-bit I2C address (0x1A): 0.0.1.1.0.1.0

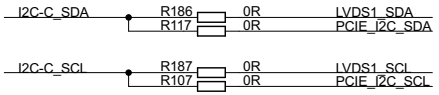
I2C-B



LVDS#0 connected to I2C-A (default) or I2C-B



I2C-C



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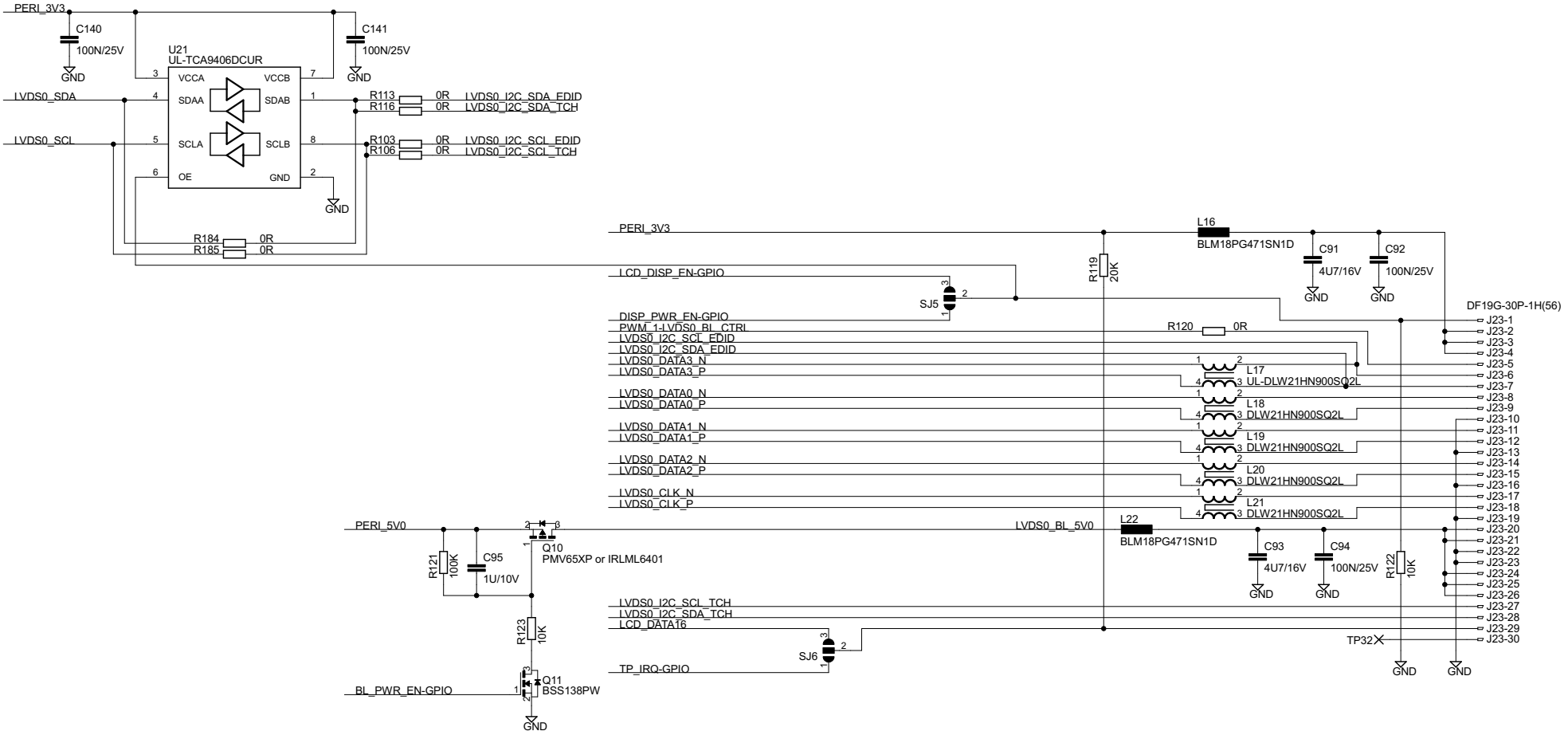
LVDS Interface #0



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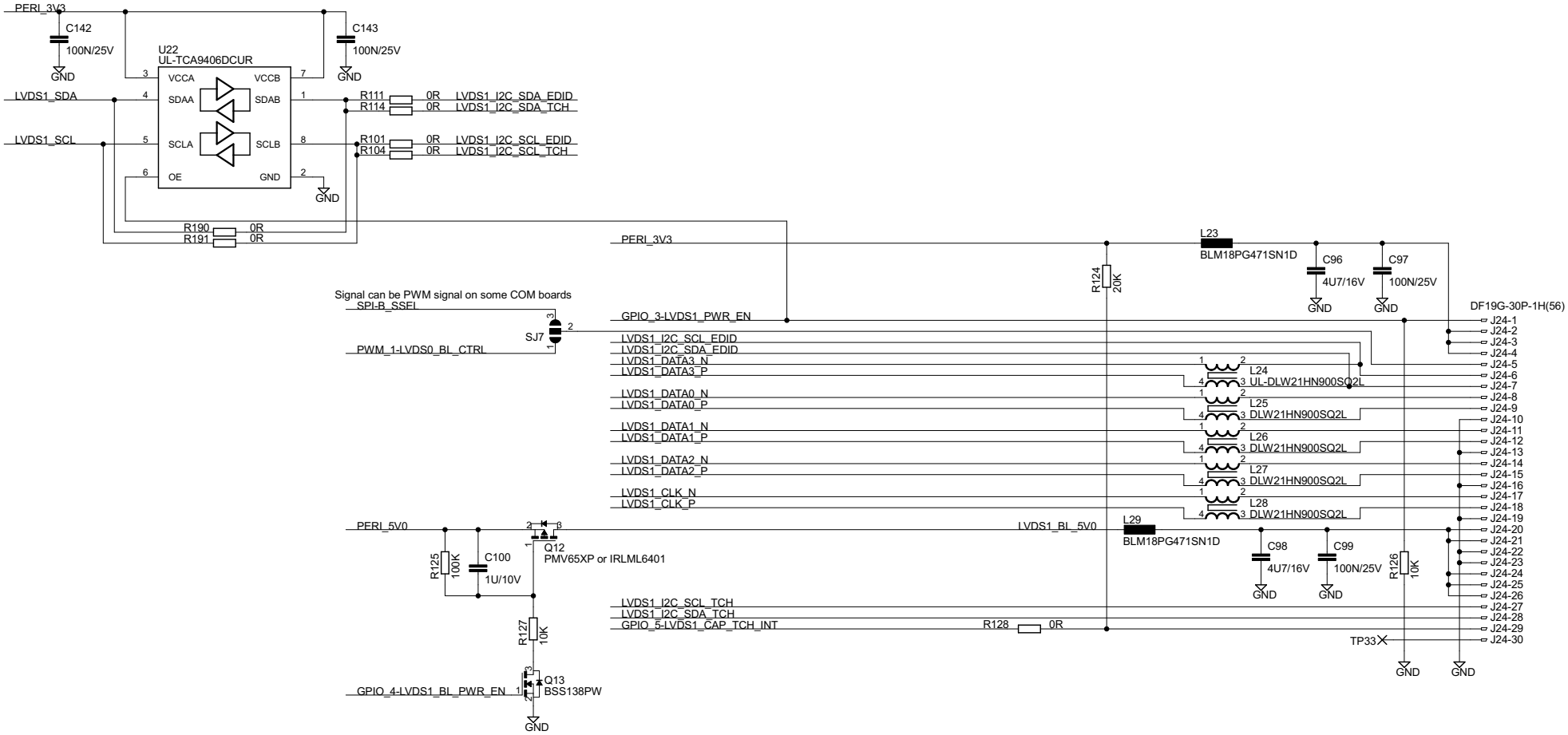
LVDS Interface #1



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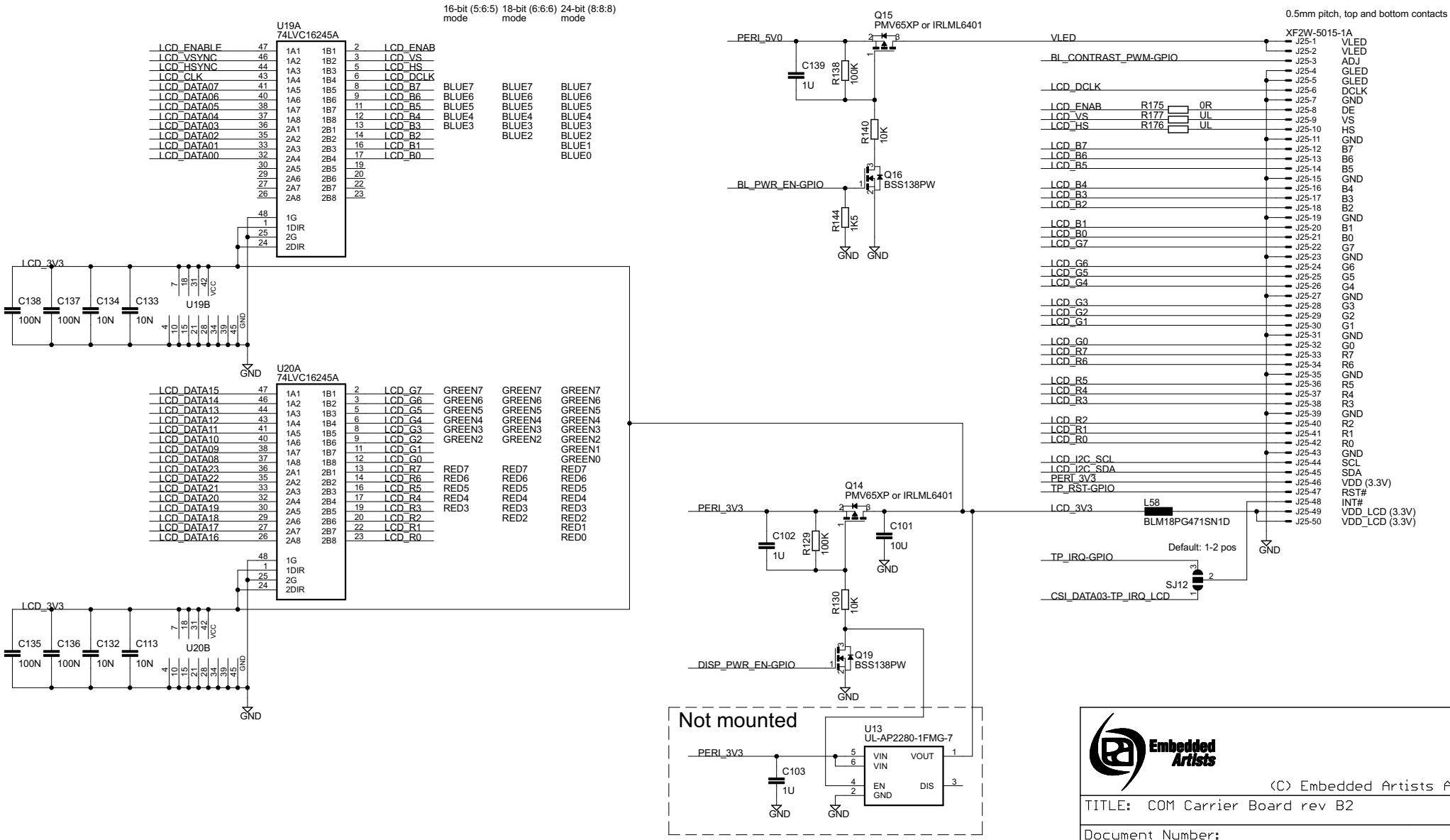
Parallel LCD Interface



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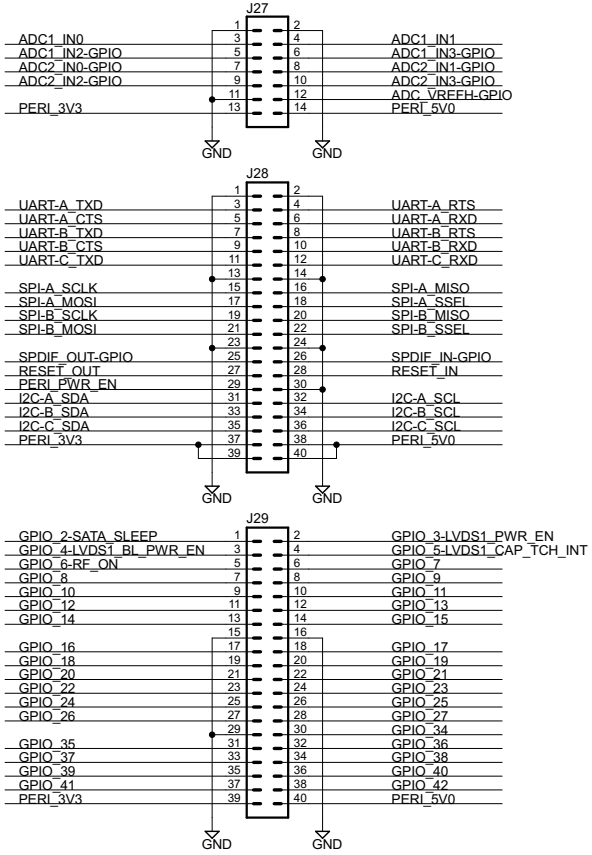
Expansion Connectors

Expansion Connectors (50mil pitch)



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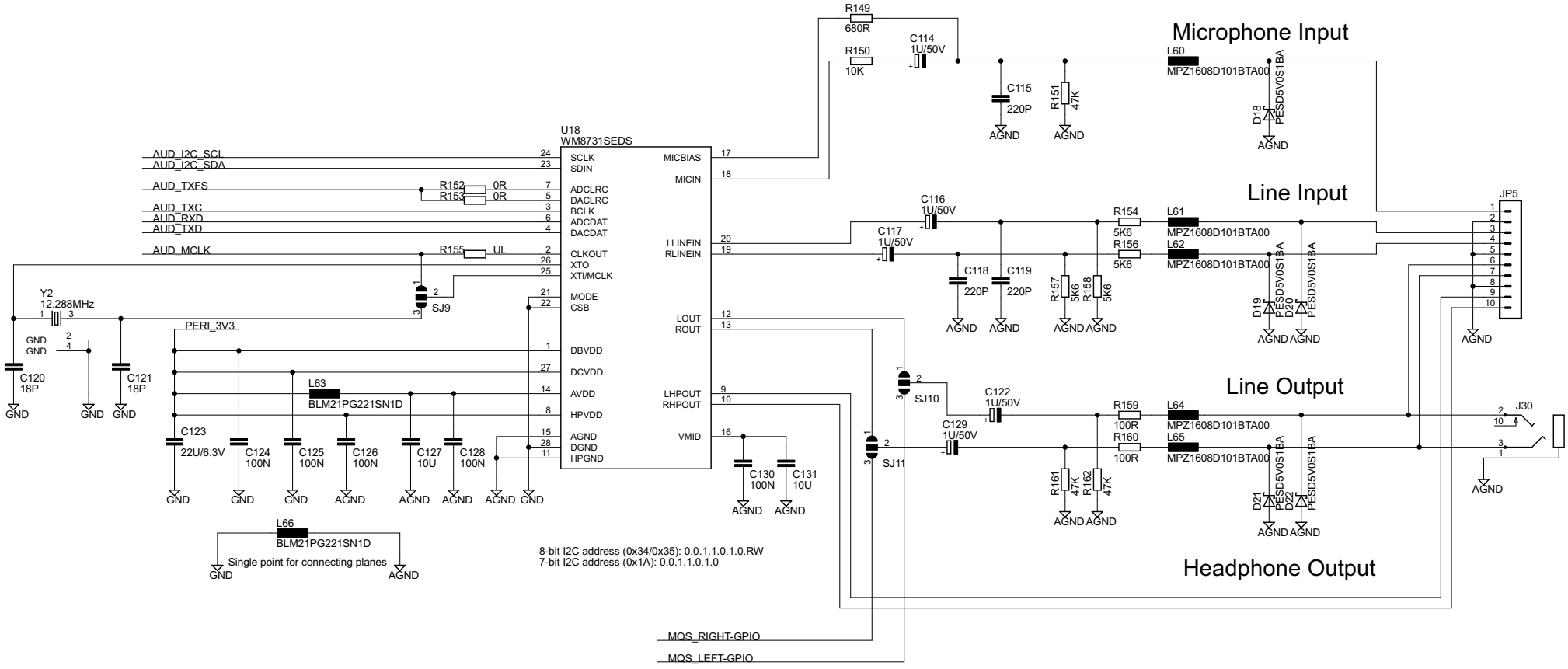
Audio Interface



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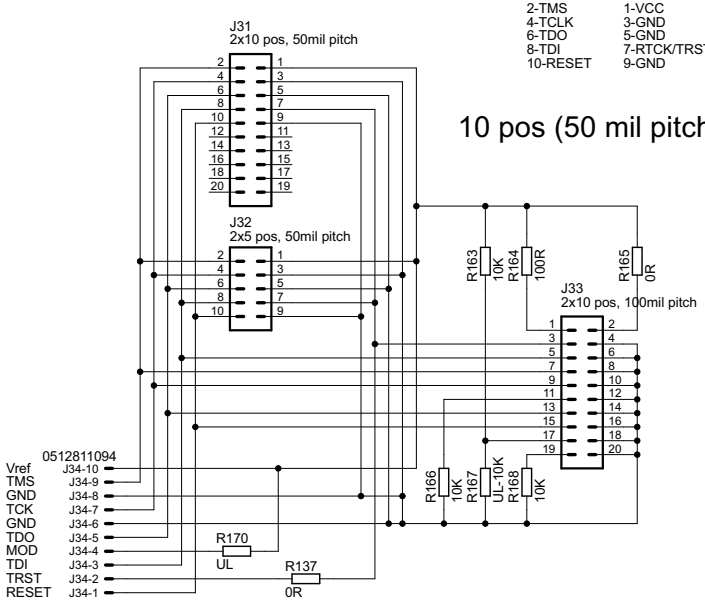
Debug Interfaces

JTAG Debug Interfaces ARM 10-pin interface JTAG Mode

2-TMS	1-VCC
4-TCLK	3-GND
6-TDO	5-GND
8-TDI	7-RTCK/TRST
10-RESET	9-GND



10 pos (50 mil pitch) connector

ARM 20-pin interface JTAG Mode

1-VCC (Vtref)	2-N/C
3-N/C (TRST)	4-GND
5-TDI	6-GND
7-TMS	8-GND
9-TCLK	10-GND
11-RTCK	12-GND
13-TDO	14-GND
15-RESET	16-GND
17-N/C	18-GND
19-N/C	20-GND

20 pos (100 mil pitch) connector

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