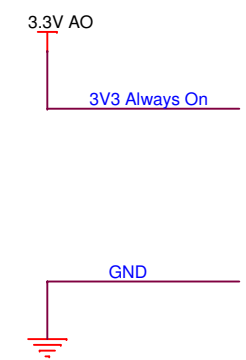
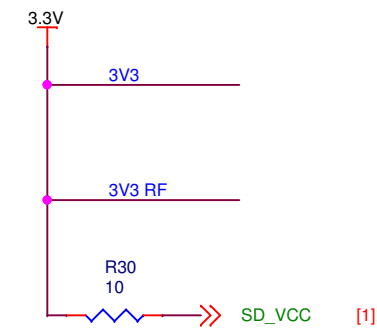
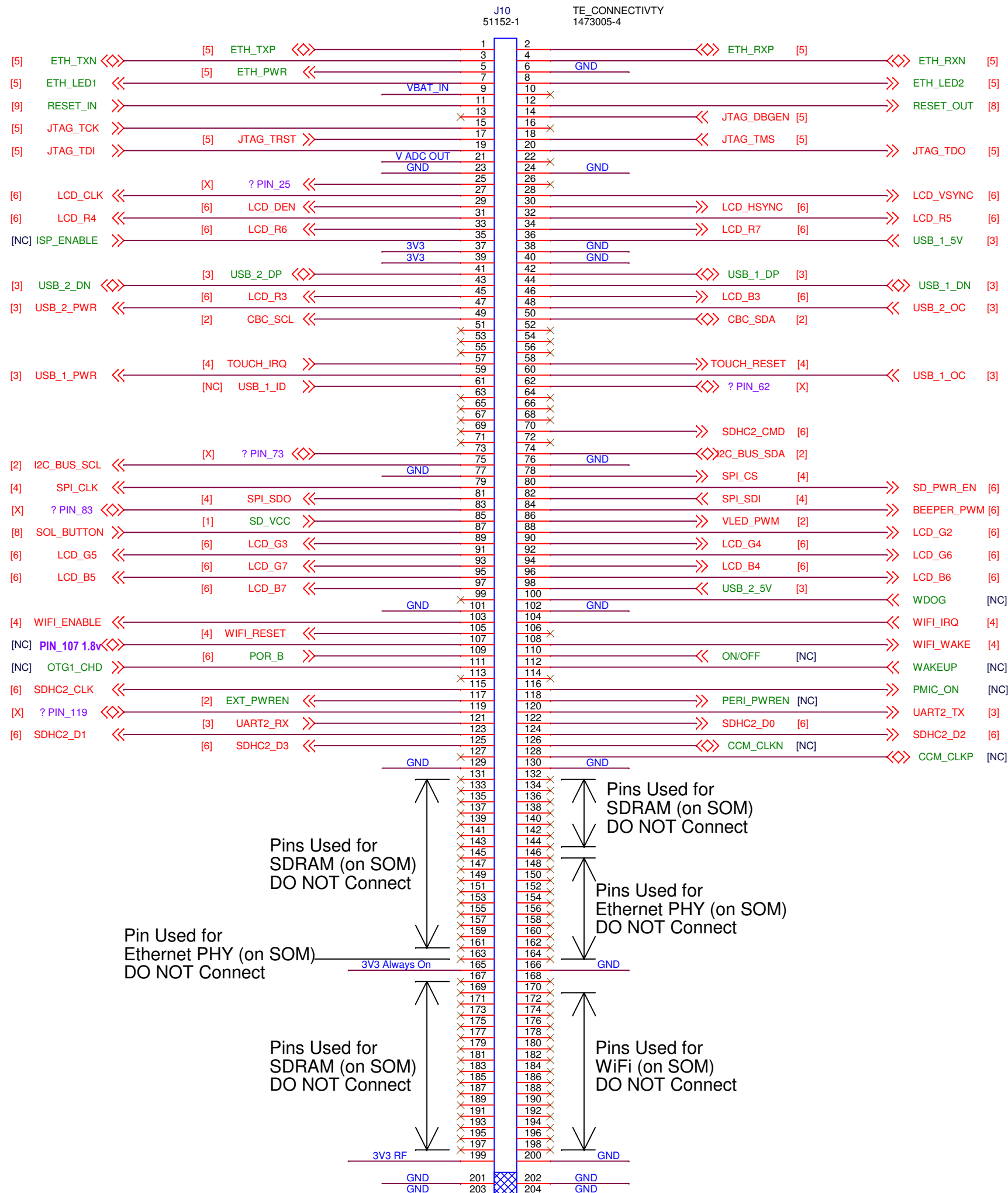


**SOM board connector
(200 pos SODIMM
1V8 key)**

Pin Key Table

- X = No Connection
- Green Text = Dedicated function
- Red Text = Programmed function
- Blue Text = Power
- Purple Text = Unassigned Pin



Pins Used for SDRAM (on SOM) DO NOT Connect

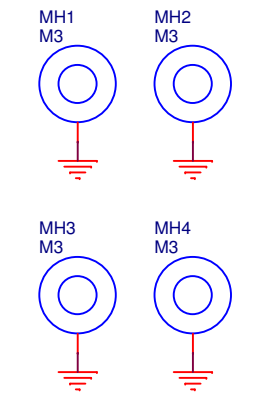
Pins Used for Ethernet PHY (on SOM) DO NOT Connect

Pin Used for Ethernet PHY (on SOM) DO NOT Connect

Pins Used for SDRAM (on SOM) DO NOT Connect

Pins Used for Ethernet PHY (on SOM) DO NOT Connect

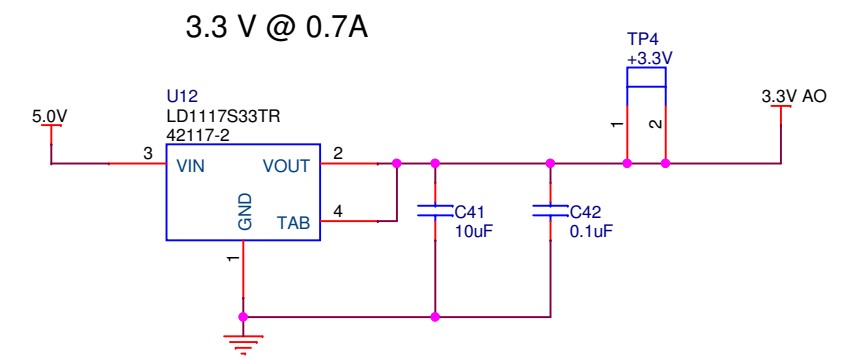
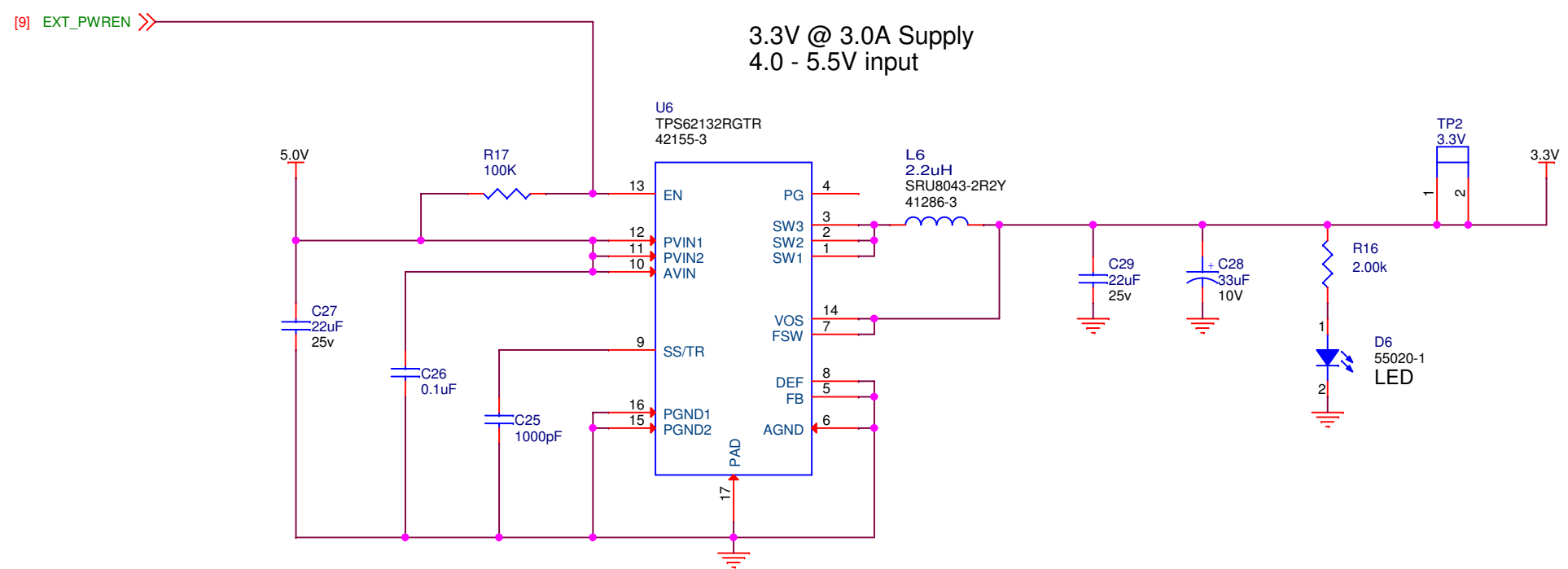
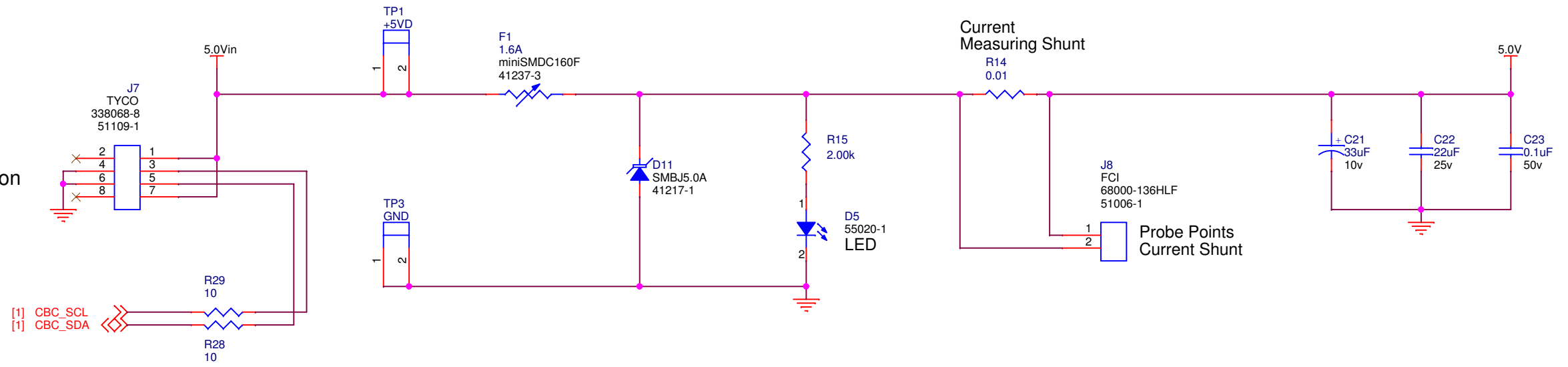
Pins Used for WiFi (on SOM) DO NOT Connect



		PP Systems 110 Haverhill Road Suite 301 Amesbury MA 01913 978 834 0505	
		REV	DATE
2	4-15-20	543	Mods after first build
1	8-28-19		Initial Release
TITLE CIRAS-4 Carrier Board			
SIZE	SHEET	DRAWING NUMBER	REV
B	1 / 9	PC143-1	2

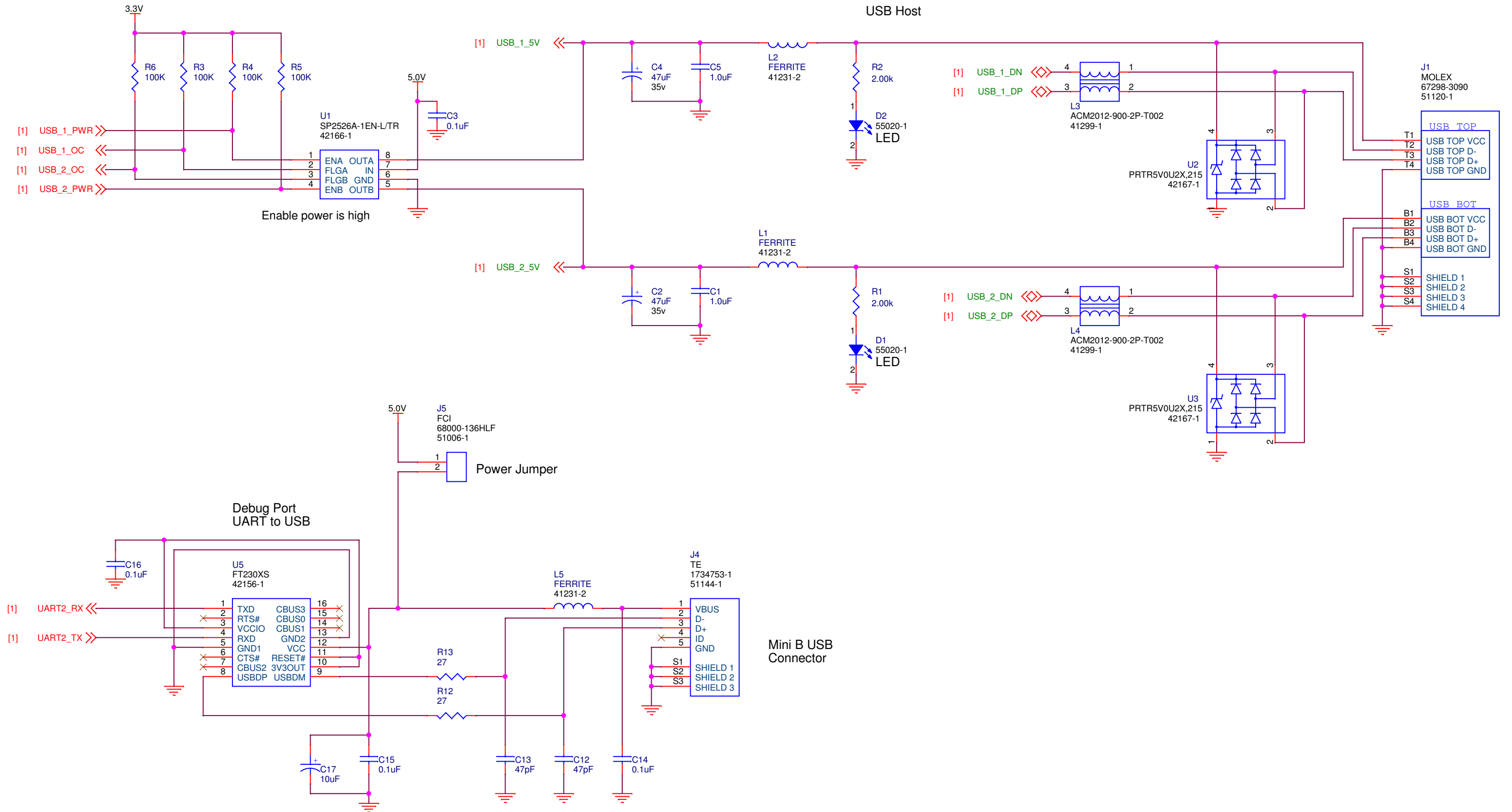
POWER SUPPLIES

Power & Comms Connection
Reverse connection Protection
By leaving Pins 2 & 8 open



	PP Systems 110 Haverhill Road Suite 301 Amesbury MA 01913 978 834 0505		
	REV	DATE	EC#
TITLE CIRAS-4 Carrier Board			
SIZE	SHEET	DRAWING NUMBER	REV
B	2 / 9	PC143-1	2

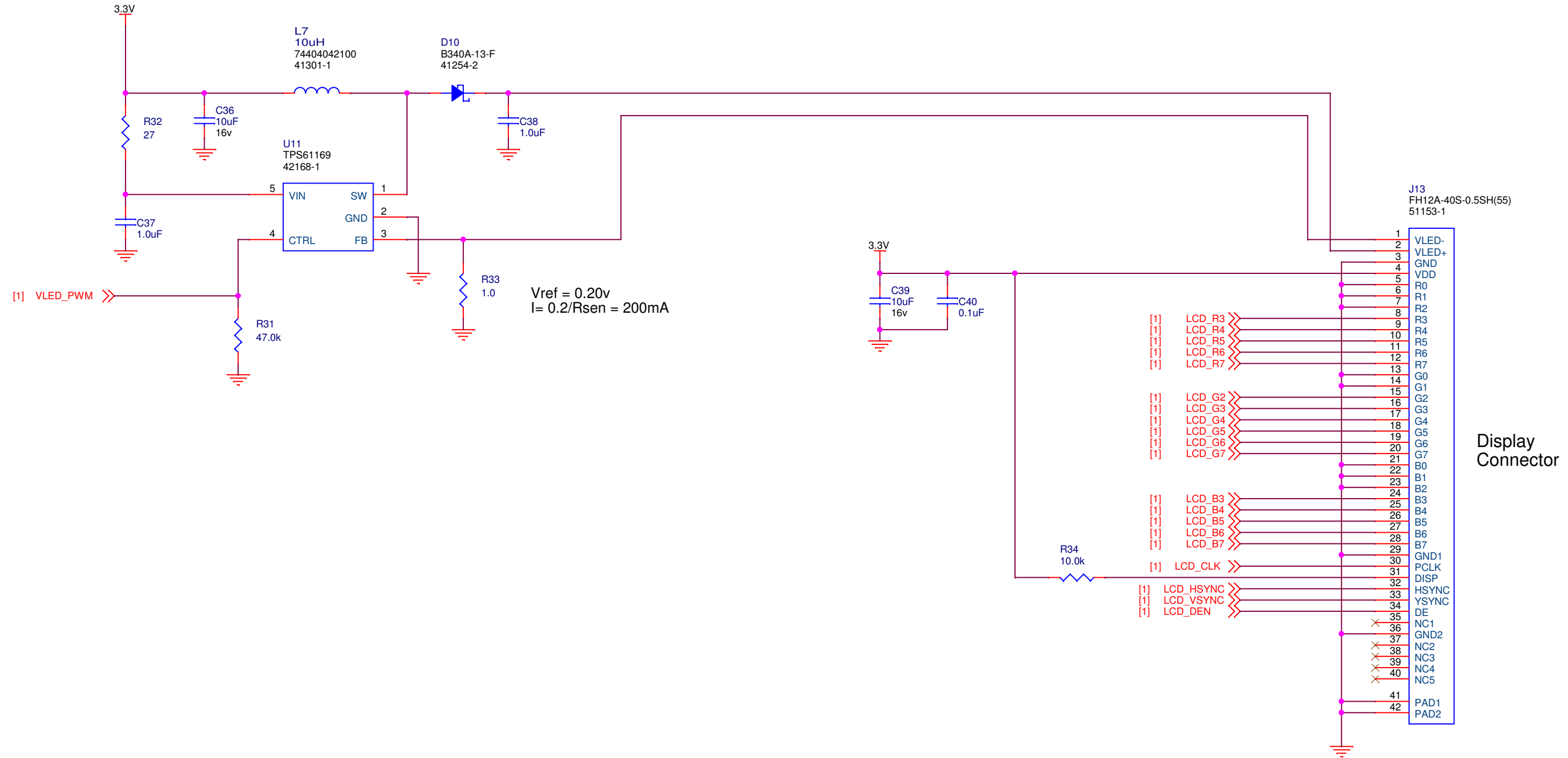
USB INTERFACES



	PP Systems 110 Haverhill Road Suite 301 Amesbury MA 01913 978 834 0505		
	REV	DATE	EC#
TITLE CIRAS-4 Carrier Board			
SIZE	SHEET	DRAWING NUMBER	REV
B	3 / 9	PC143-1	2

LCD INTERFACE

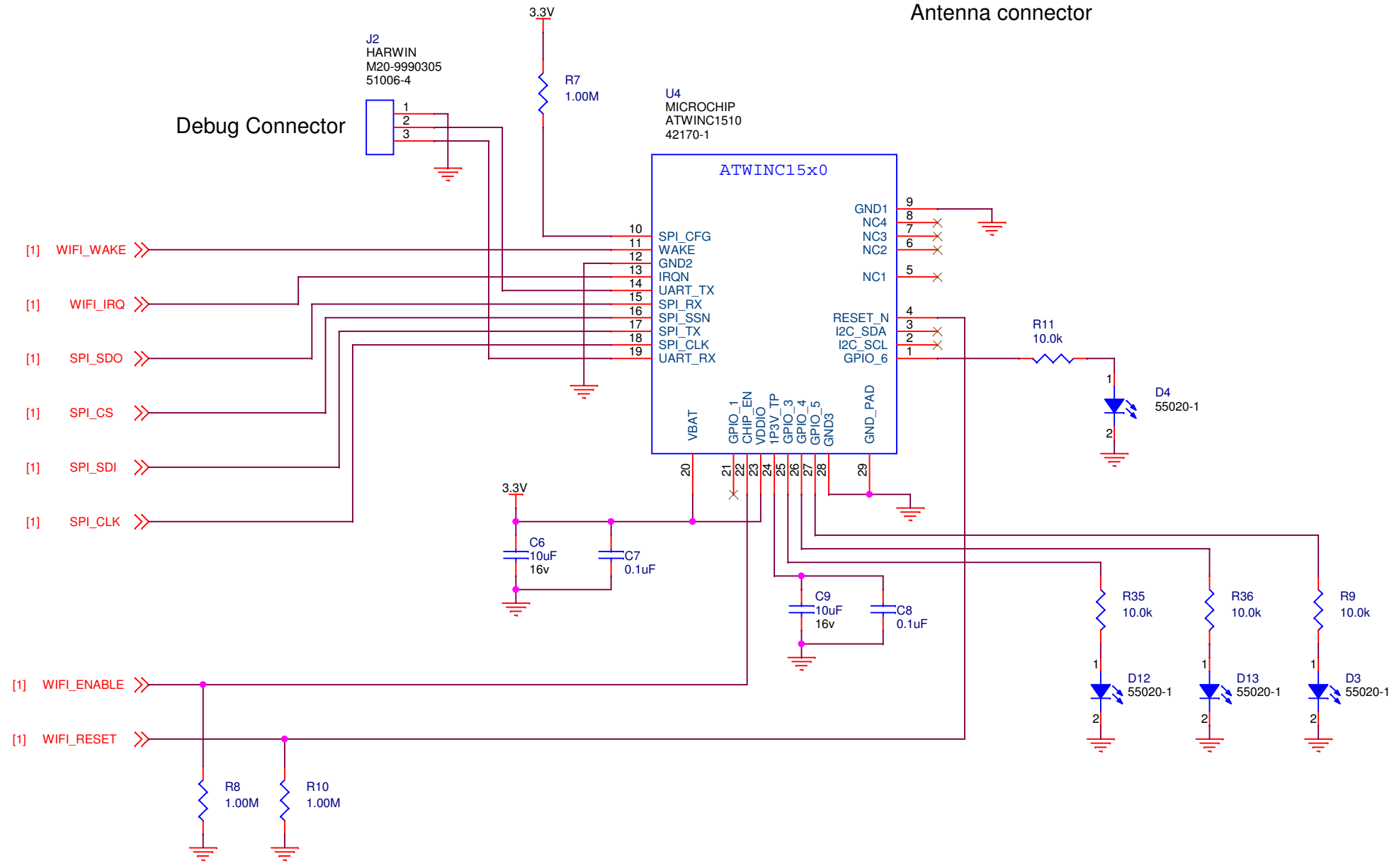
BackLight Control
0.0 - 200mA



		PP Systems 110 Haverhill Road Suite 301 Amesbury MA 01913 978 834 0505	
REV	DATE	EC#	DESCRIPTION
TITLE CIRAS-4 Carrier Board			
SIZE	SHEET	DRAWING NUMBER	REV
B	4 / 9	PC143-1	2

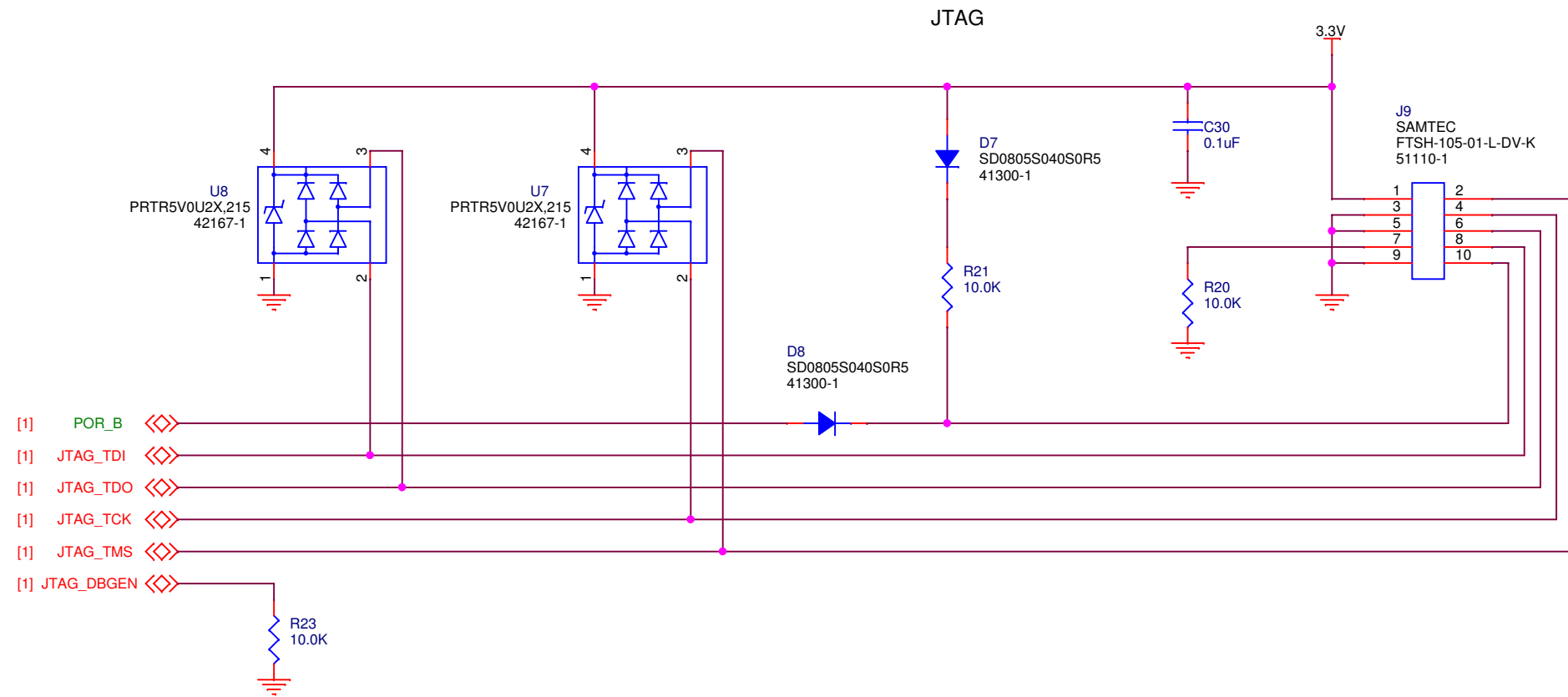
WiFi MODULE

With External Antenna connector



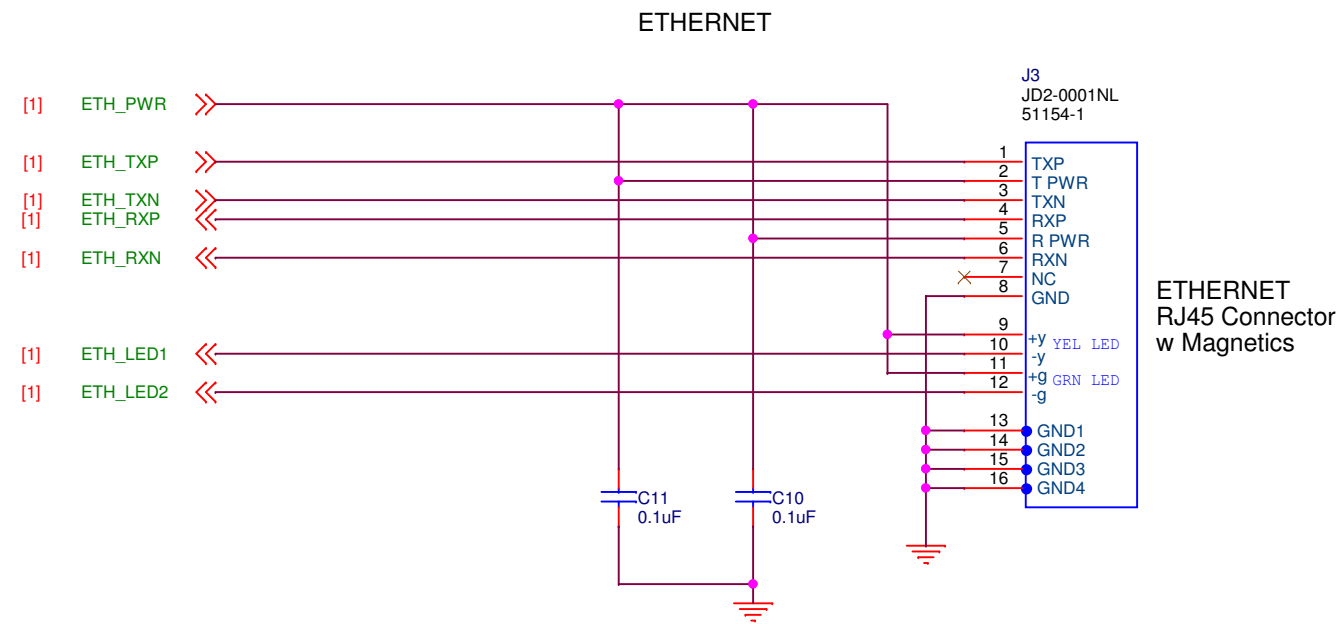
	PP Systems 110 Haverhill Road Suite 301 Amesbury MA 01913 978 834 0505		
	REV	DATE	EC#
TITLE CIRAS-4 Carrier Board			
SIZE	SHEET	DRAWING NUMBER	REV
B	5 / 9	PC143-1	2

JTAG and ETHERNET



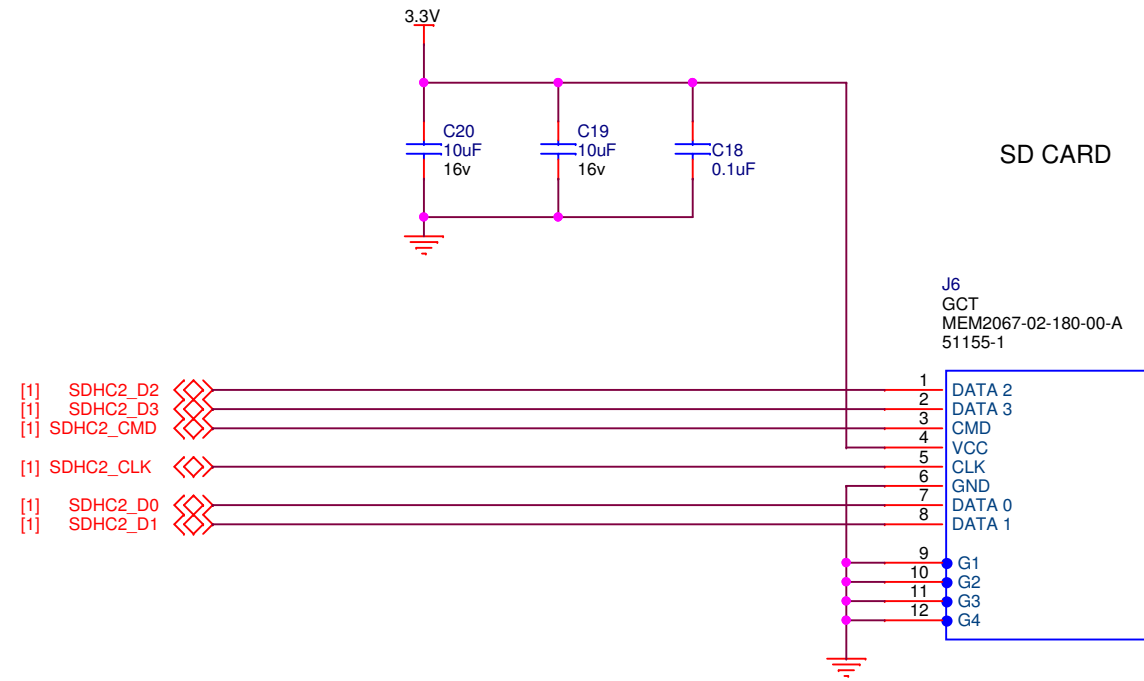
ARM 10-pin interface JTAG Mode


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



	PP Systems 110 Haverhill Road Suite 301 Amesbury MA 01913 978 834 0505			REV	DATE	EC#	DESCRIPTION
	TITLE CIRAS-4 Carrier Board						
SIZE	SHEET	DRAWING NUMBER		REV			
B	6 / 9	PC143-1		2			

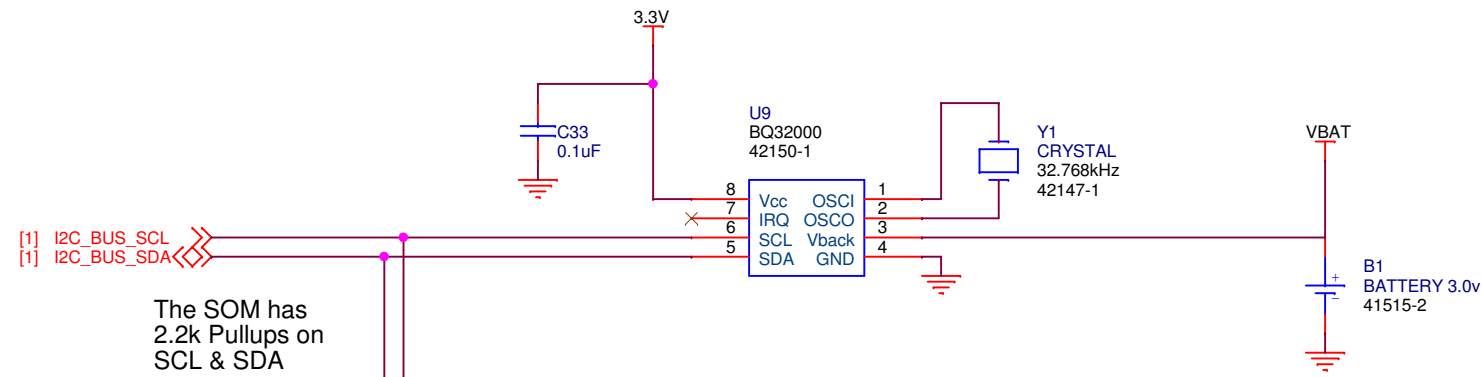
SD CARD



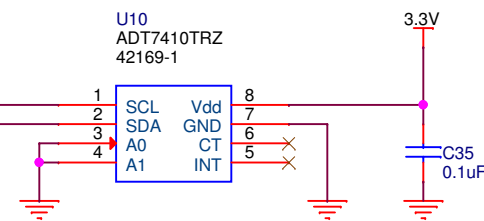
	PP Systems 110 Haverhill Road Suite 301 Amesbury MA 01913 978 834 0505							
	REV	DATE	EC#	DESCRIPTION				
	TITLE							
	CIRAS-4 Carrier Board							
SIZE	SHEET	DRAWING NUMBER		REV				
B	7 / 9	PC143-1		2				

I2C DEVICES

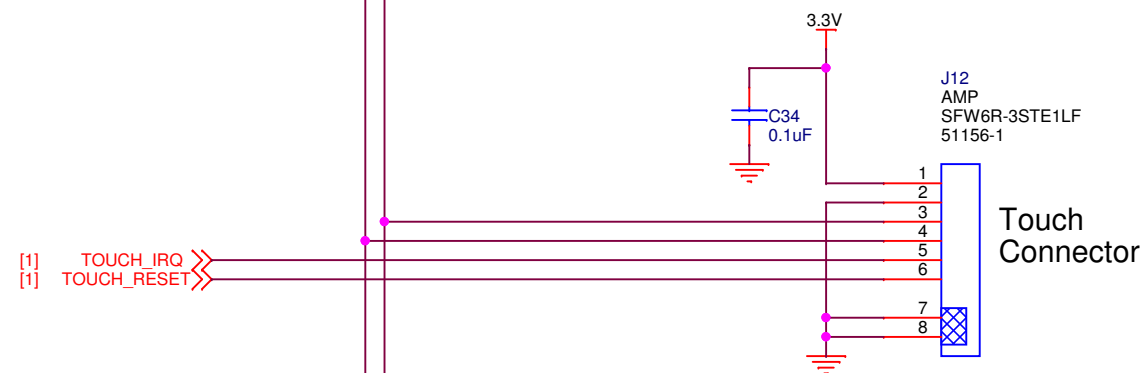
REAL TIME CLOCK I2C Address 104



TEMPERATURE I2C Address 72 (A0 gnd & A1 gnd)

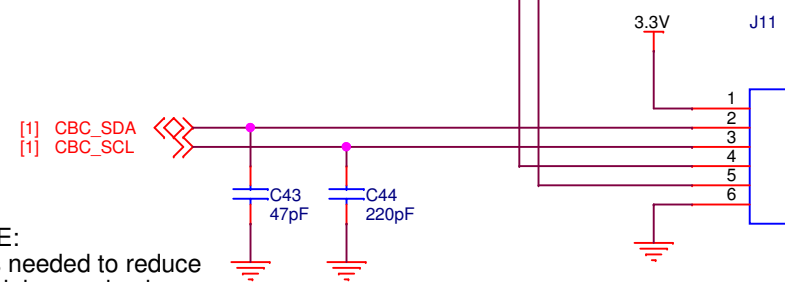


I2C Address 126



NOTE:
Pin signal configuration may vary between display types

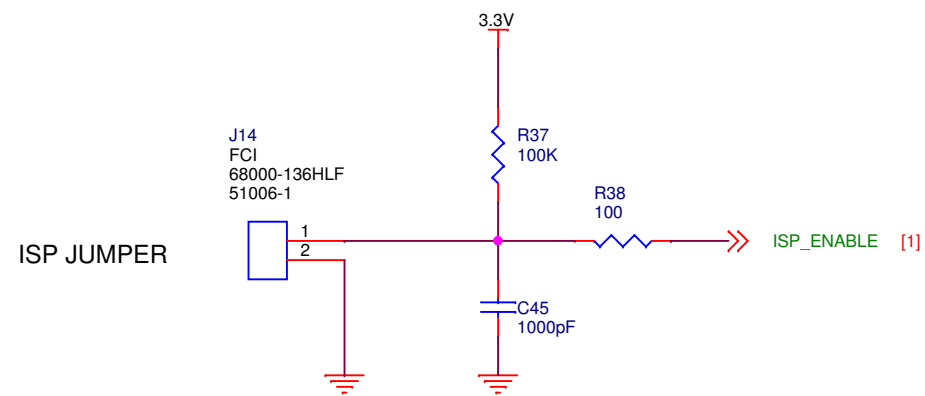
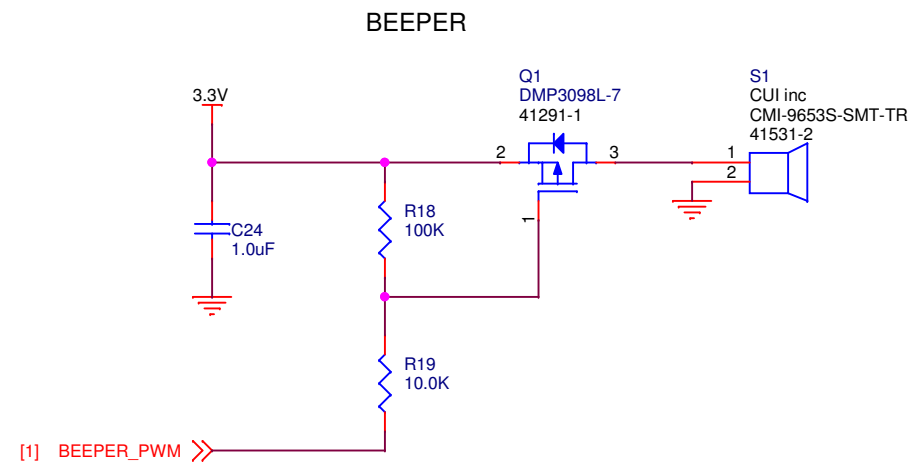
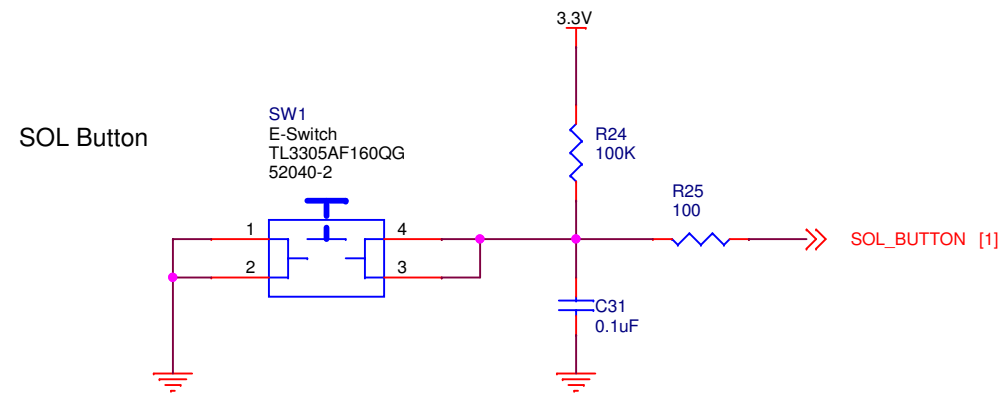
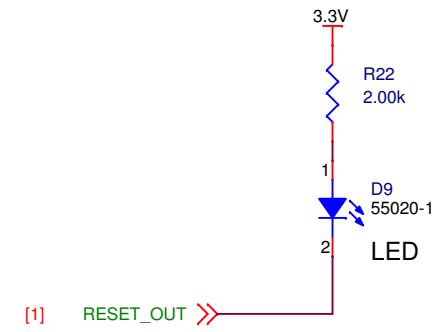
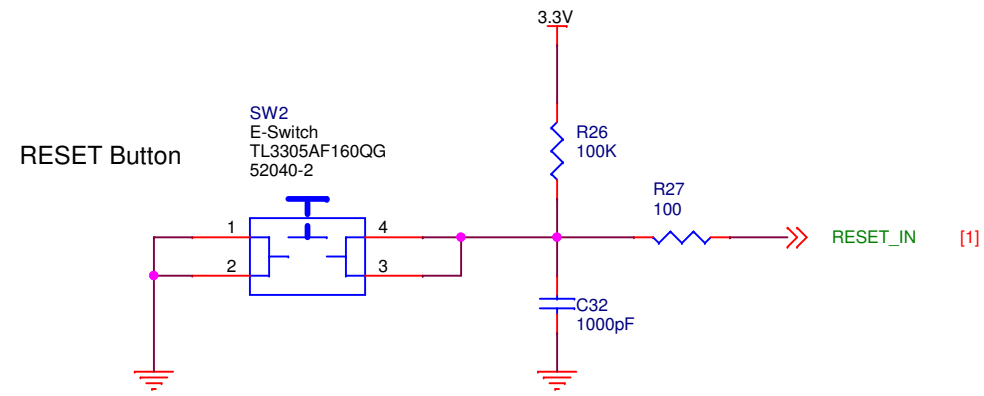
Probe Points I2C signals



NOTE:
Caps needed to reduce any high speed noise

PP SYSTEMS	PP Systems 110 Haverhill Road Suite 301 Amesbury MA 01913 978 834 0505		
	REV	DATE	EC#
TITLE CIRAS-4 Carrier Board			
SIZE B	SHEET 8 / 9	DRAWING NUMBER PC143-1	REV 2

MISC



	PP Systems 110 Haverhill Road Suite 301 Amesbury MA 01913 978 834 0505			
	REV	DATE	EC#	DESCRIPTION
	TITLE CIRAS-4 Carrier Board			
SIZE	SHEET	DRAWING NUMBER	REV	
B	9 / 9	PC143-1	2	