
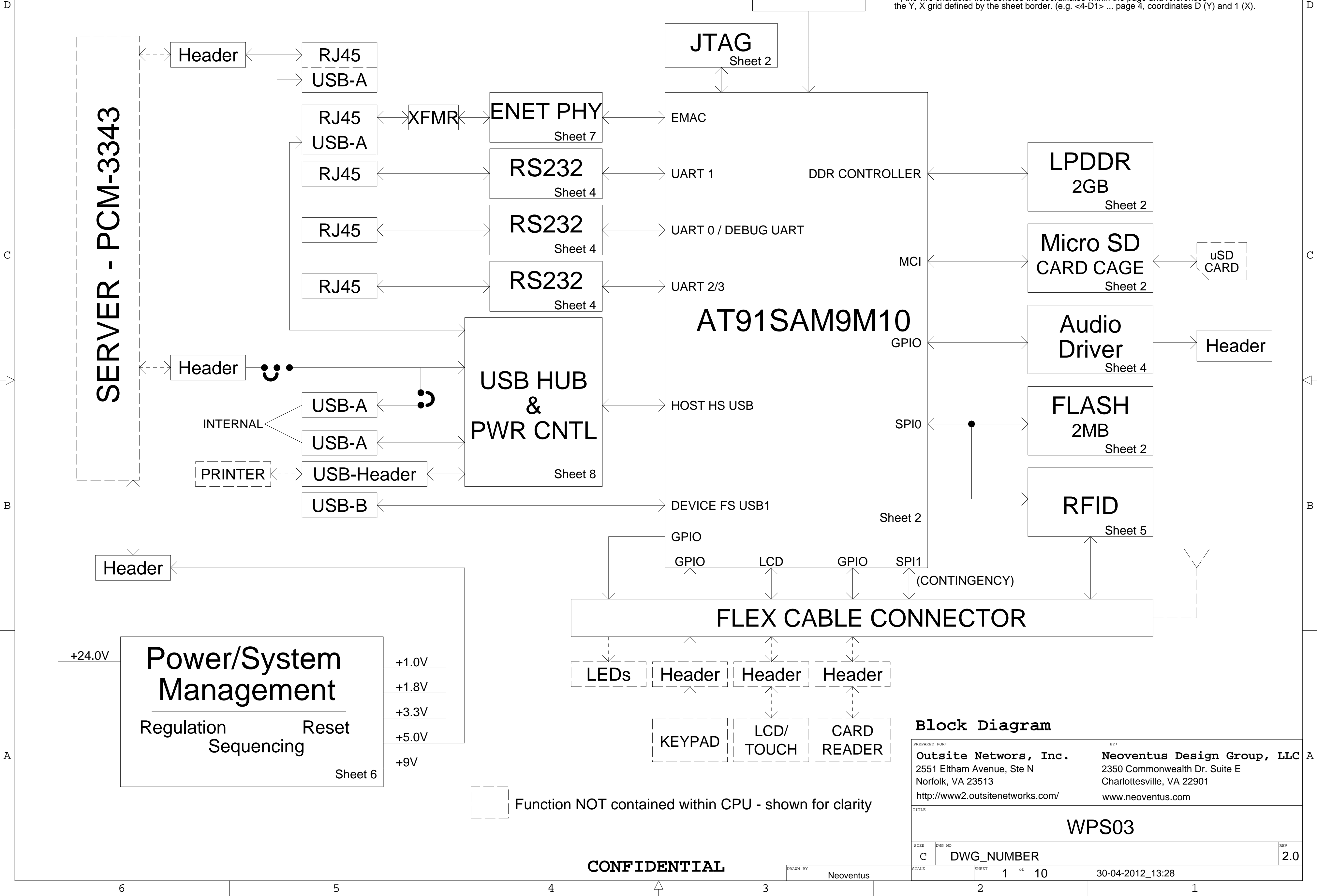


Revision History		
Rev.	Date	Description
1.0	2012.Feb.07	Initial release
2.0	2012.Apr.24	Added debug LEDs Bottom side population option for SD card Updated RFID filter components Changed USB Hub Clocking Misc tweaks based on alpha testing

NOTES

- Copyright (c) 2012 Outsie Networks All rights reserved.
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- The symbol  denotes components not (normally) inserted. This component may be a contingency or for development only.
 - Bus numbering is referenced by [M:L], where 'M' is the most significant value and 'L' the least significant.
 - Inter-sheet references, delineated within brackets < >, are formatted as such. The first field denotes the page the signal goes to, or comes from. Following the '-', the two character field denotes the coordinates within the page and references the Y, X grid defined by the sheet border. (e.g. <4-D1> ... page 4, coordinates D (Y) and 1 (X)).



Function NOT contained within CPU - shown for clarity

Block Diagram

PREPARED FOR:

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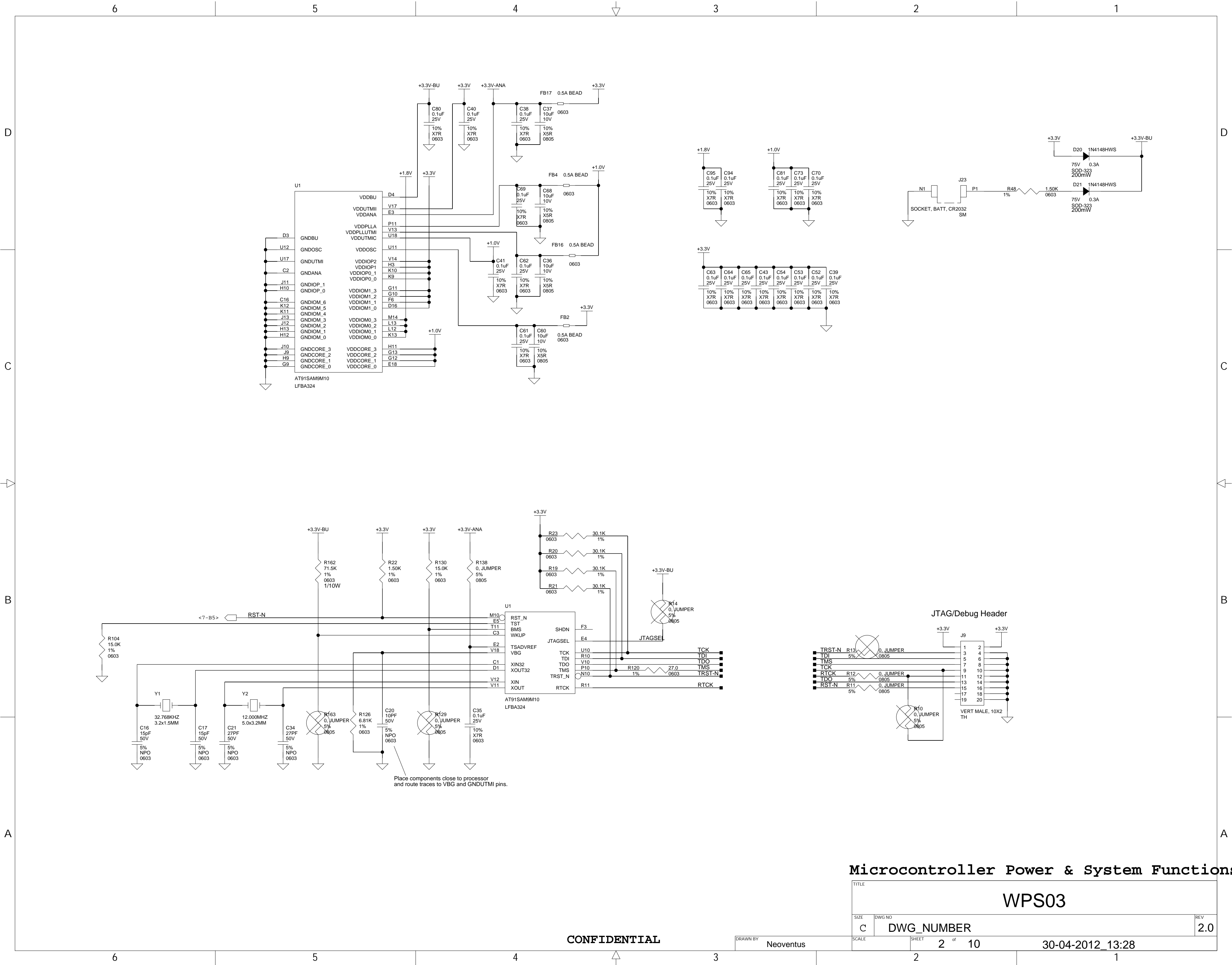
TITLE

WPS03

SIZE	DWG NO	REV
C	DWG_NUMBER	2.0
SCALE	SHEET	
	1 of 10	30-04-2012_13:28

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6

5

4

3

2

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6

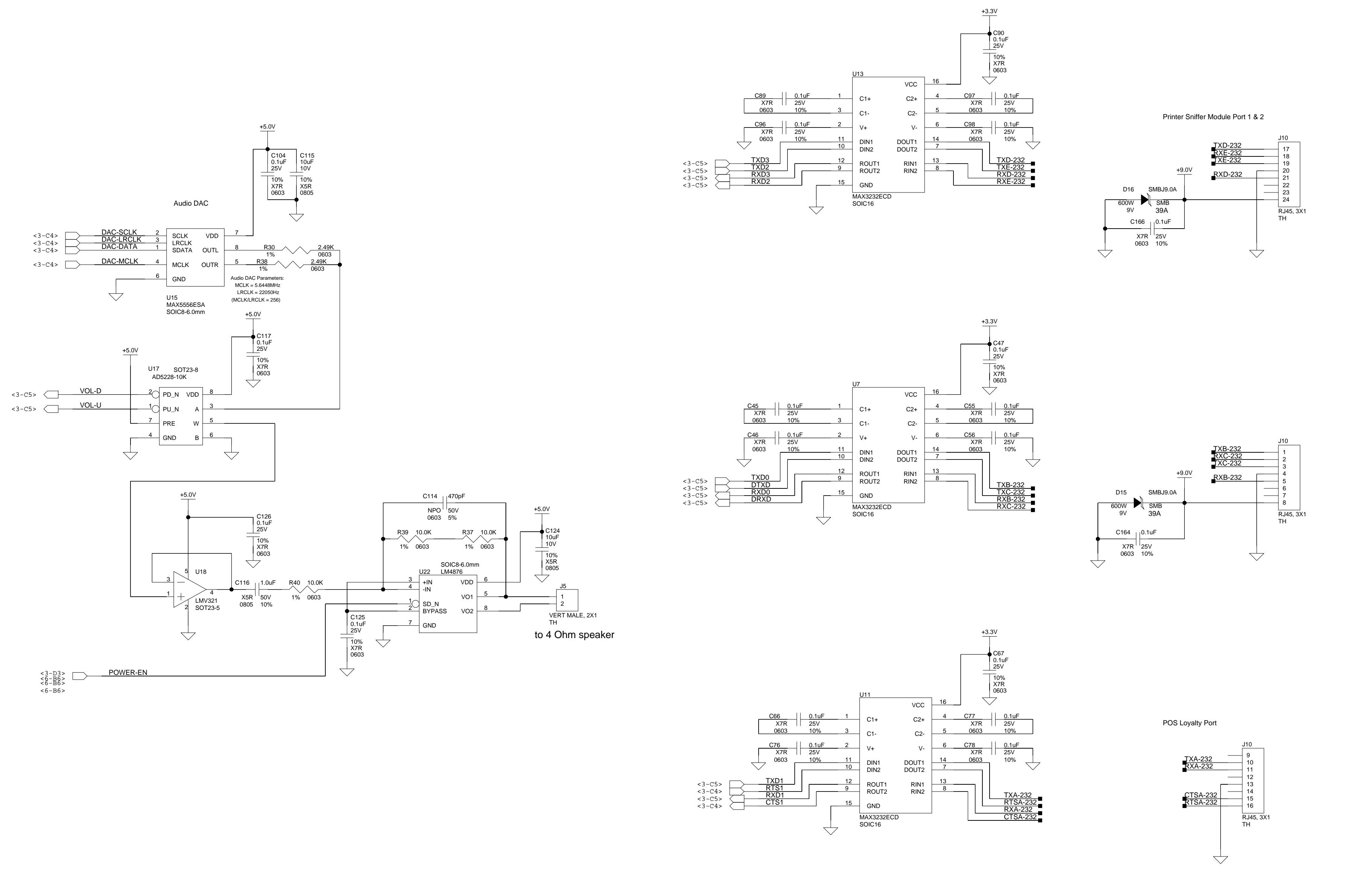
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4

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2

1

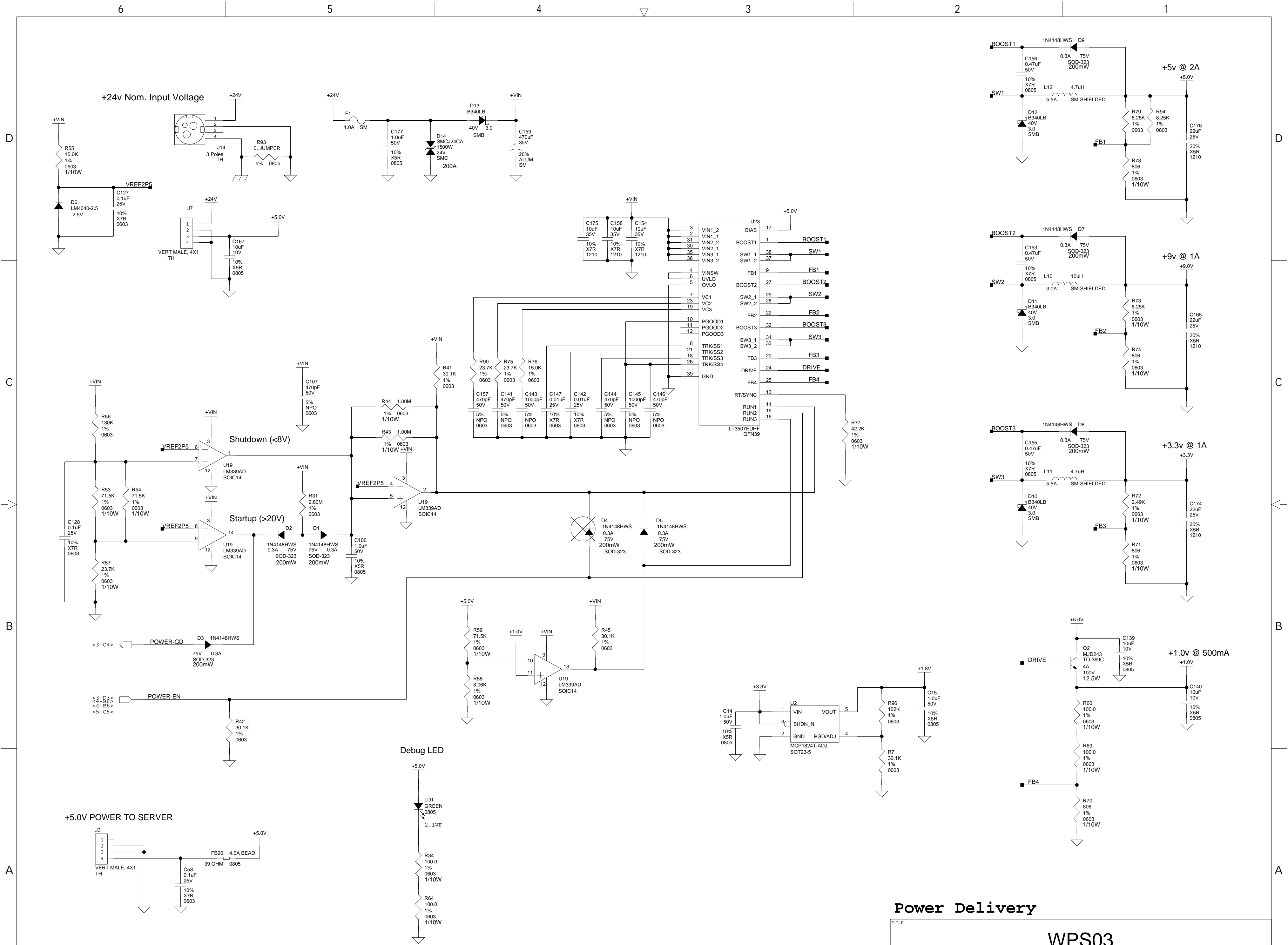


Serial Interface

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SCALE	SHEET	4 of 10	30-04-2012_13:28

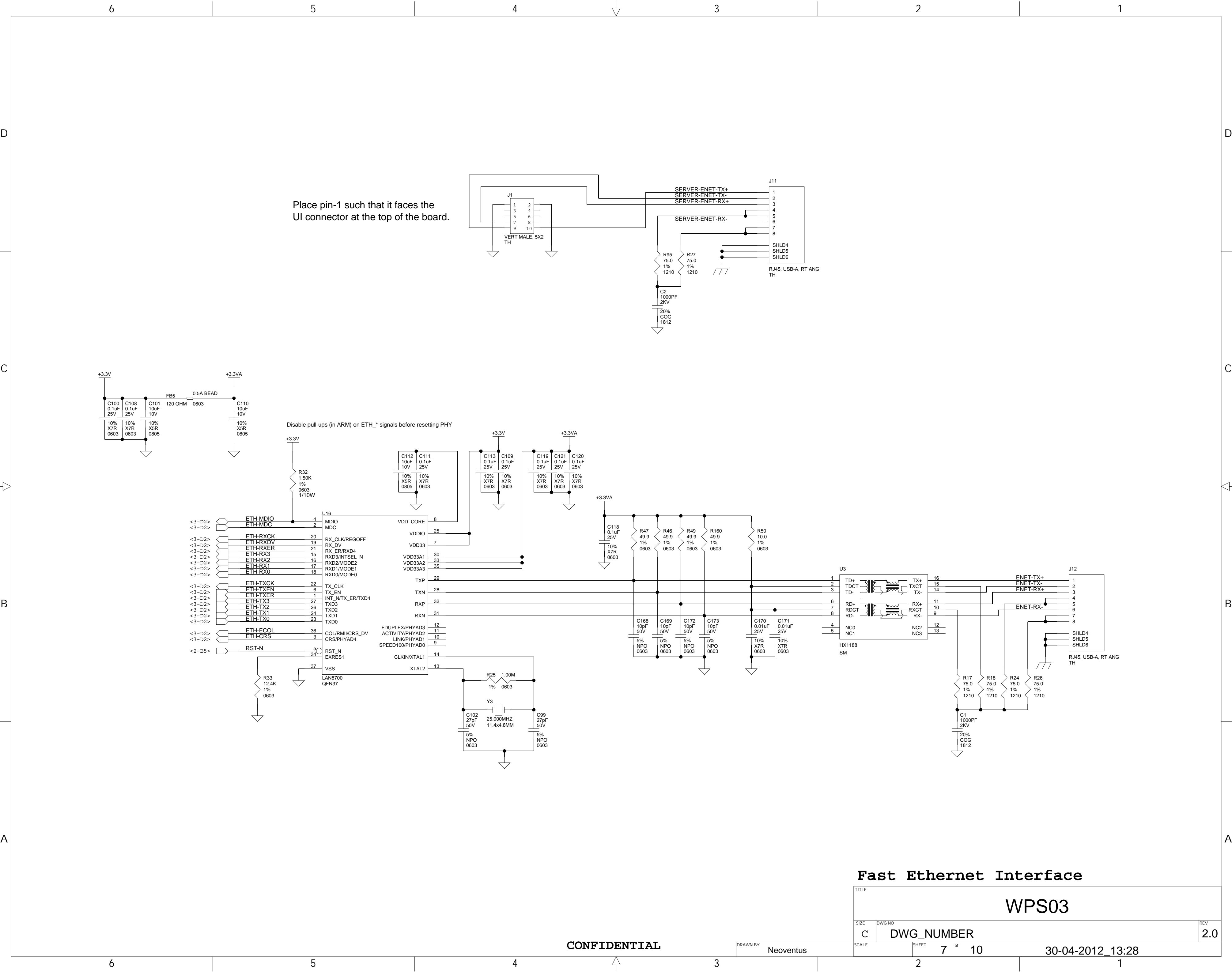
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Place pin-1 such that it faces the UI connector at the top of the board.

Fast Ethernet Interface

TITLE			
WPS03			
SIZE	DWG NO		REV
C	DWG_NUMBER		2.0
SCALE	SHEET	30-04-2012_13:28	
	7 of 10		

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D

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B

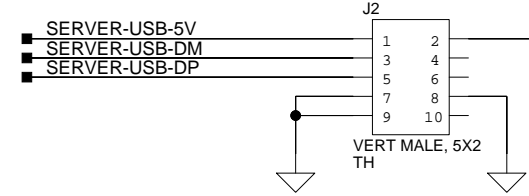
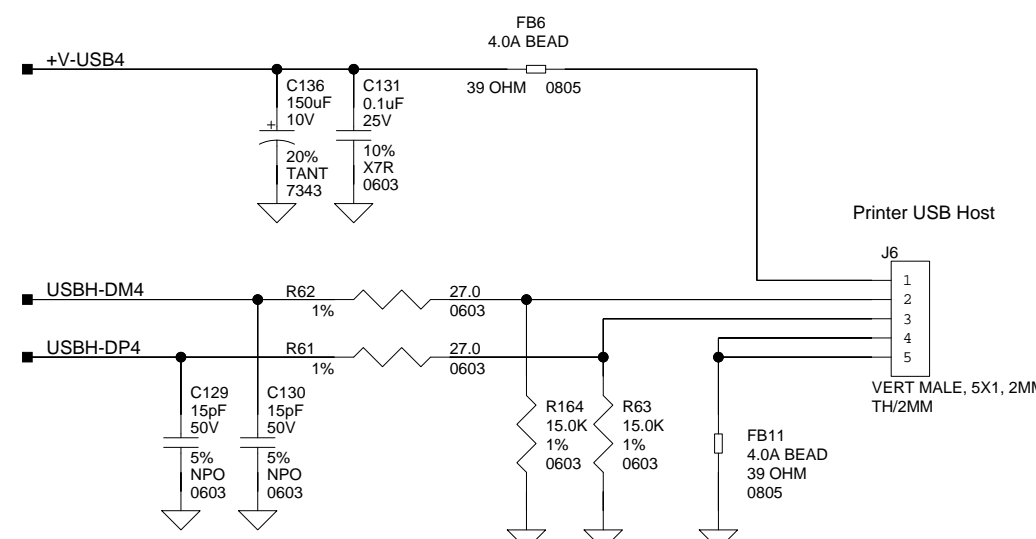
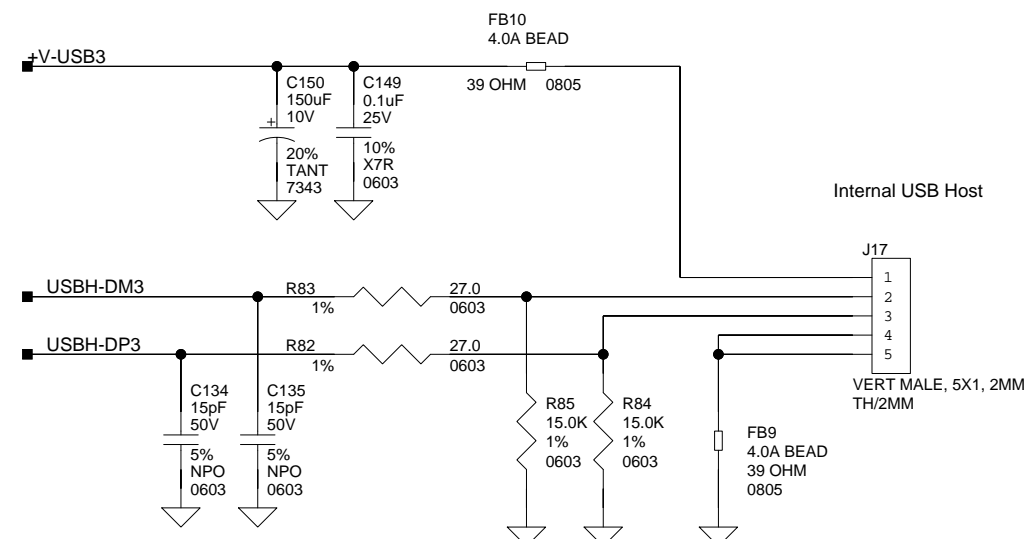
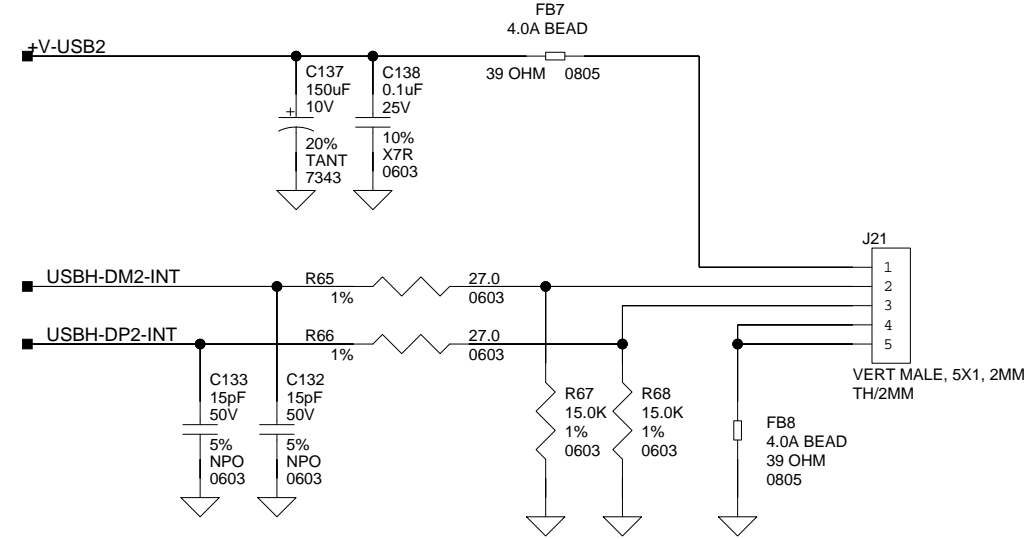
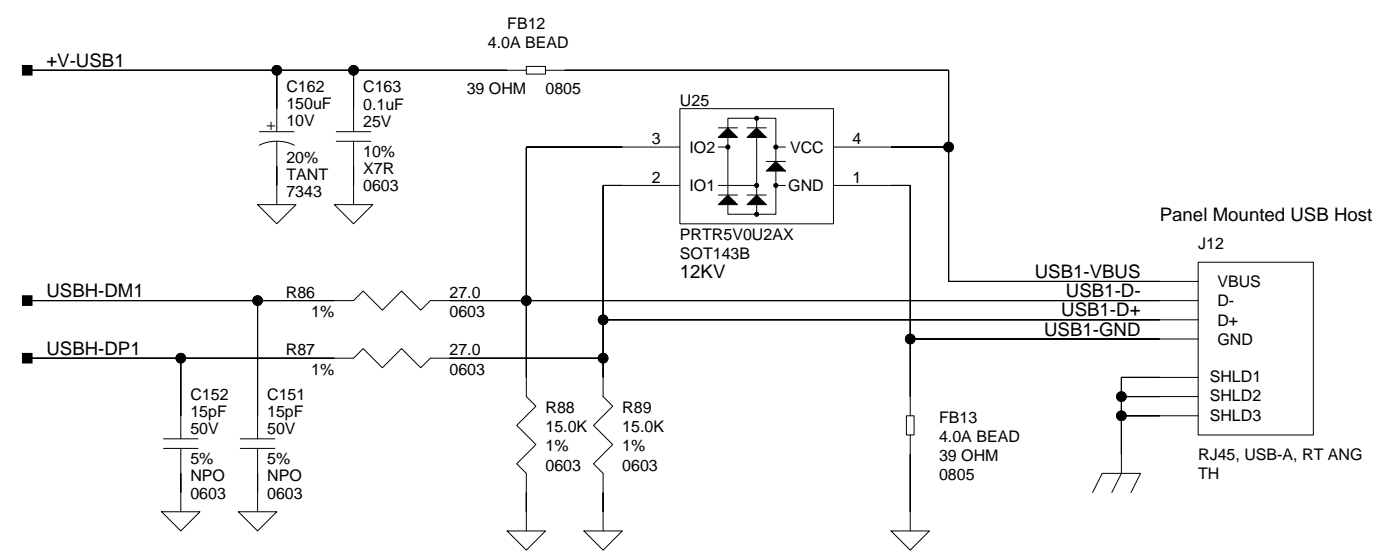
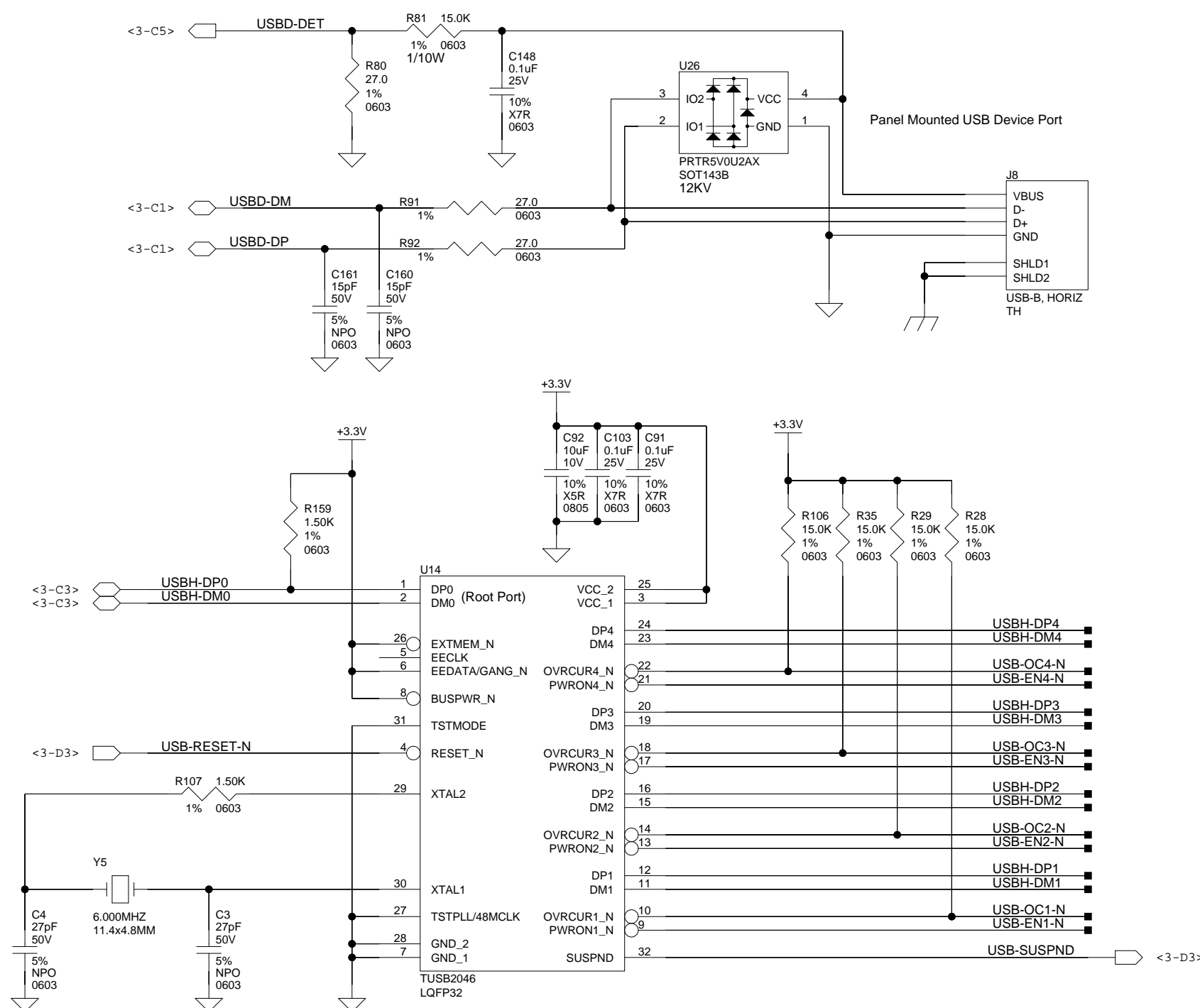
A

D

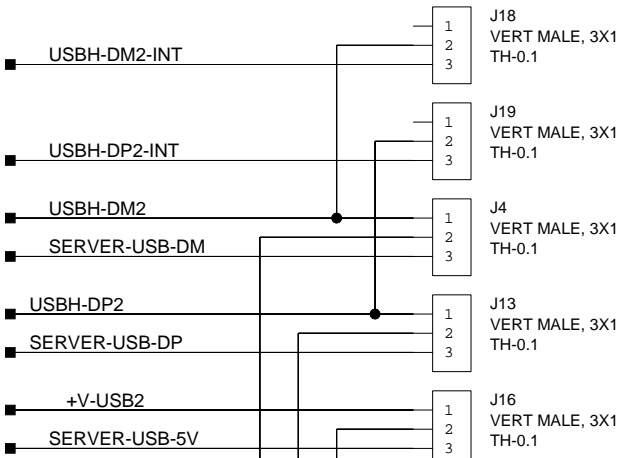
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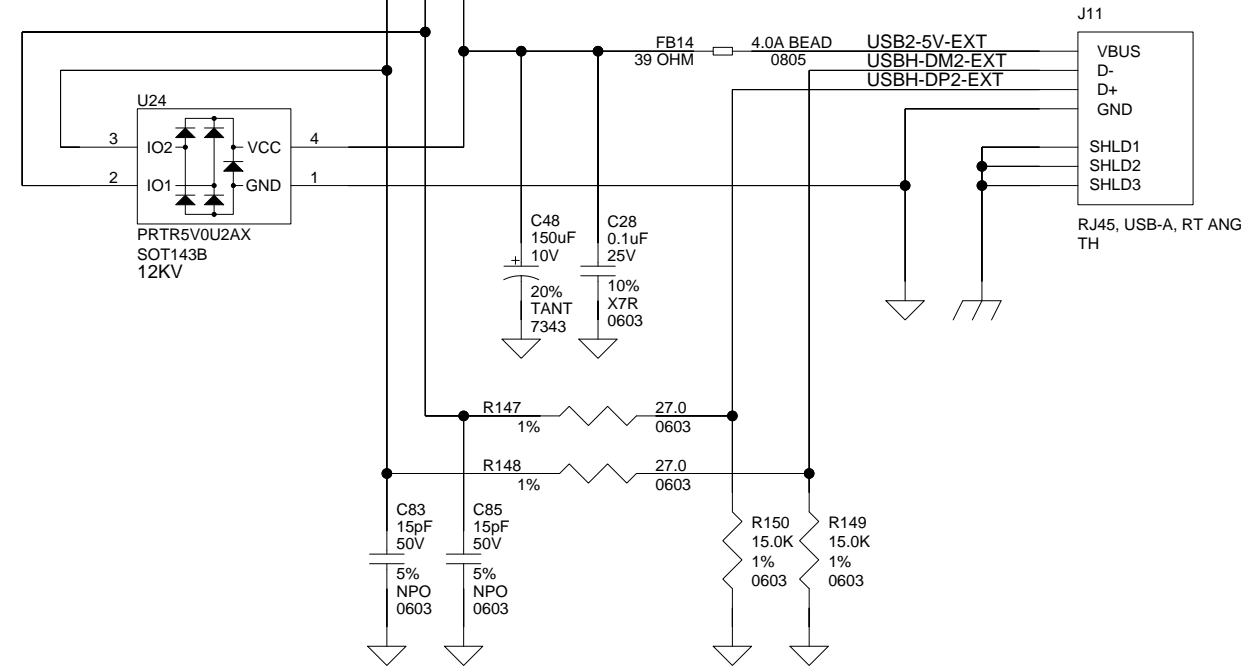
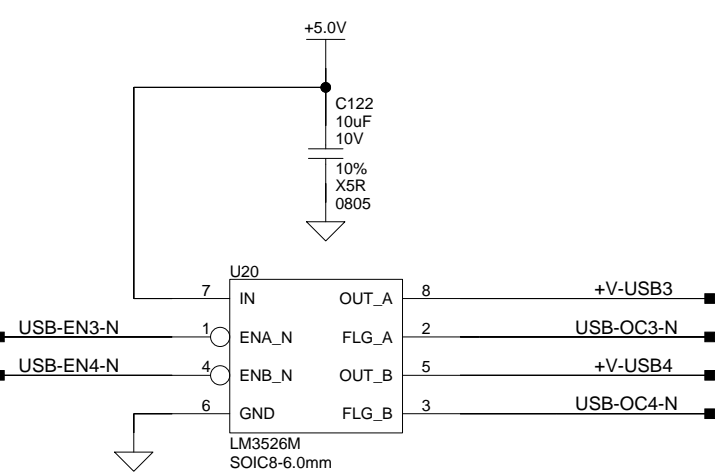
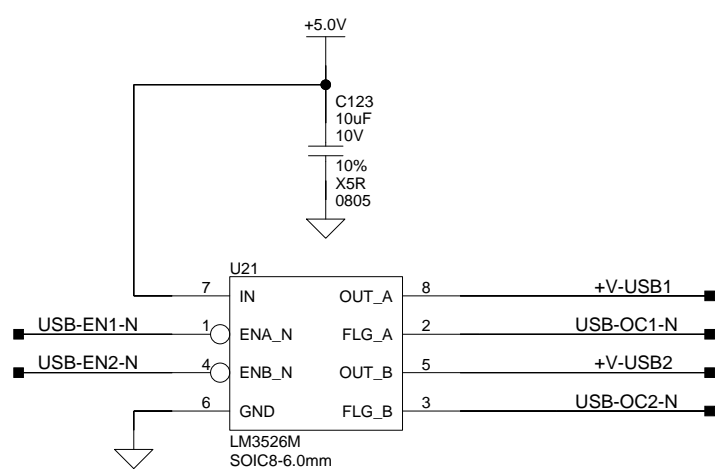


Place pin-1 such that it faces the bottom row of connectors.



When no server is connected, place all jumpers between pins 1&2. USB2 is then connected to an external USB host jack.

When server is connected, place all jumpers between pins 2&3. USB2 is then connected to an internal USB host jack and the server's USB signals are connected to an external USB host jack.



USB Interface

TITLE		WPS03	
SIZE	DWG NO	REV	
C	DWG_NUMBER	2.0	
SCALE	SHEET	8 of 10	30-04-2012_13:28

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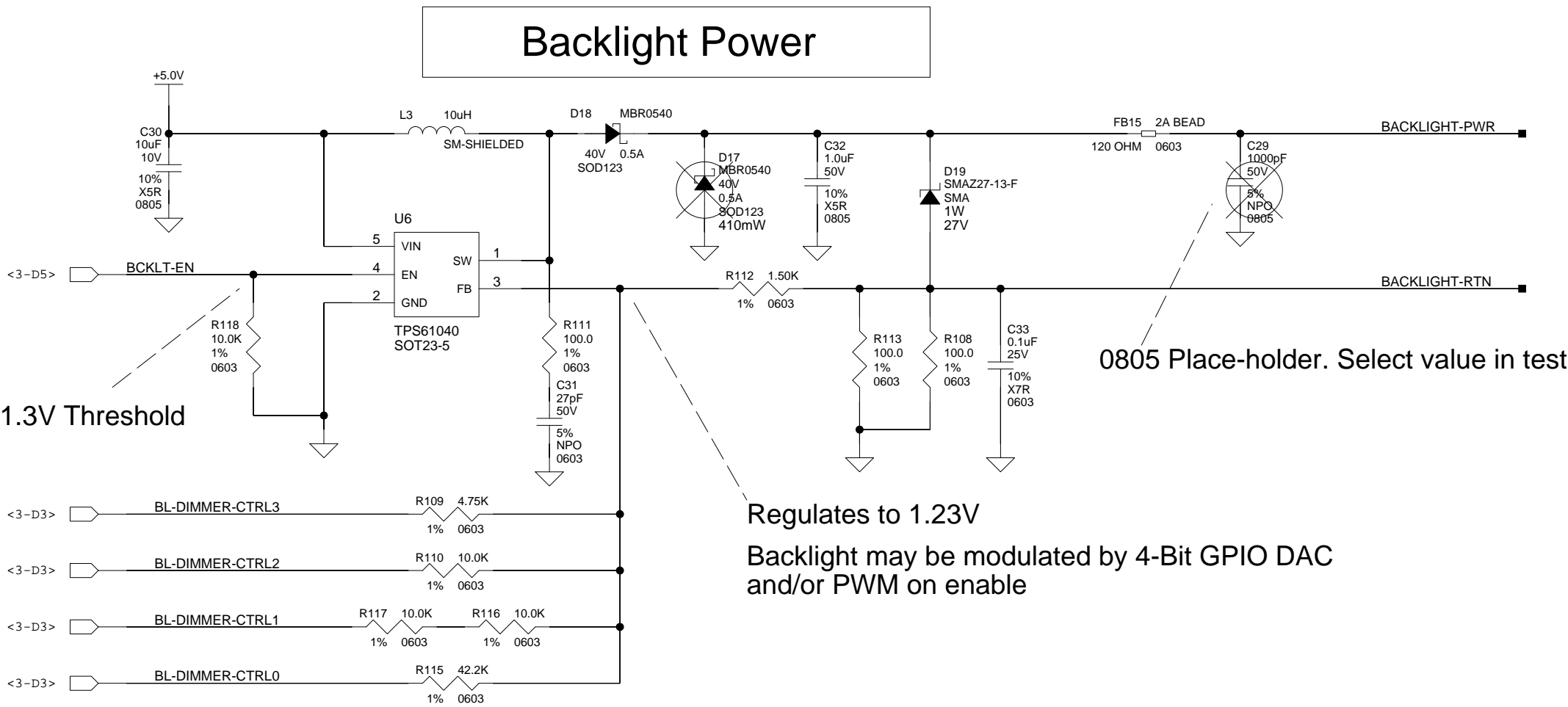
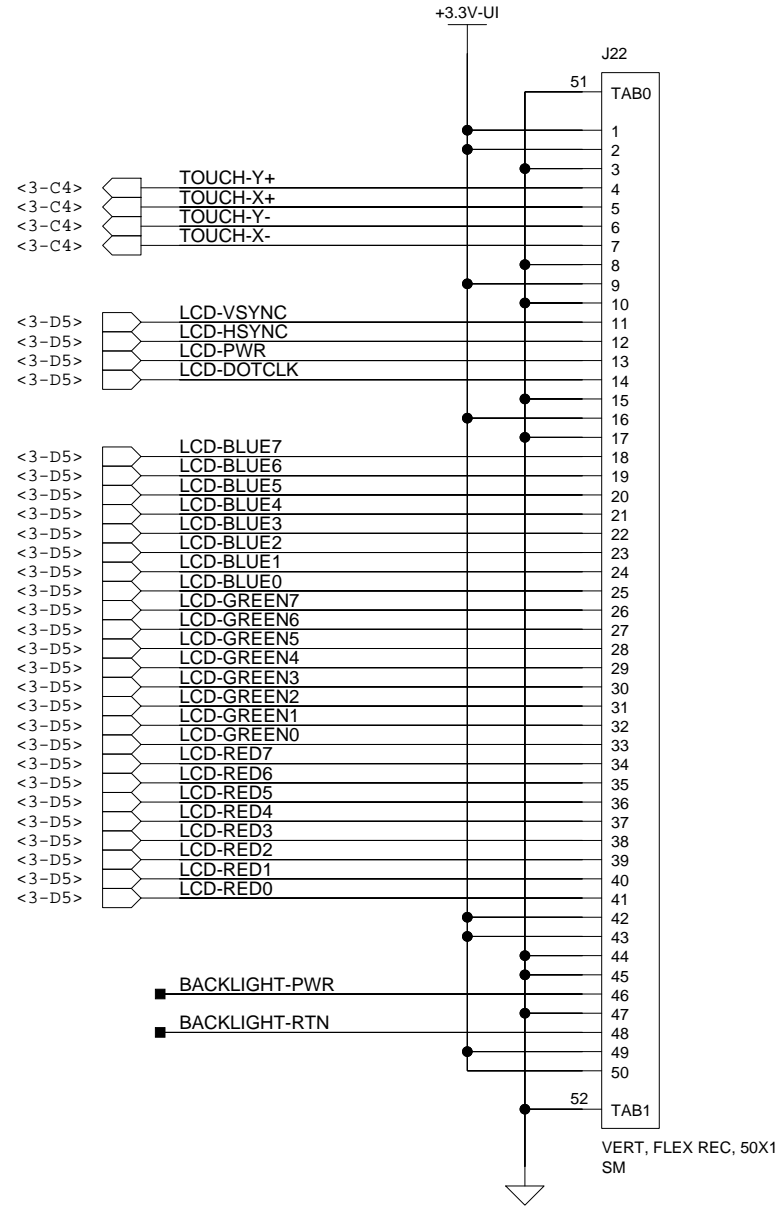
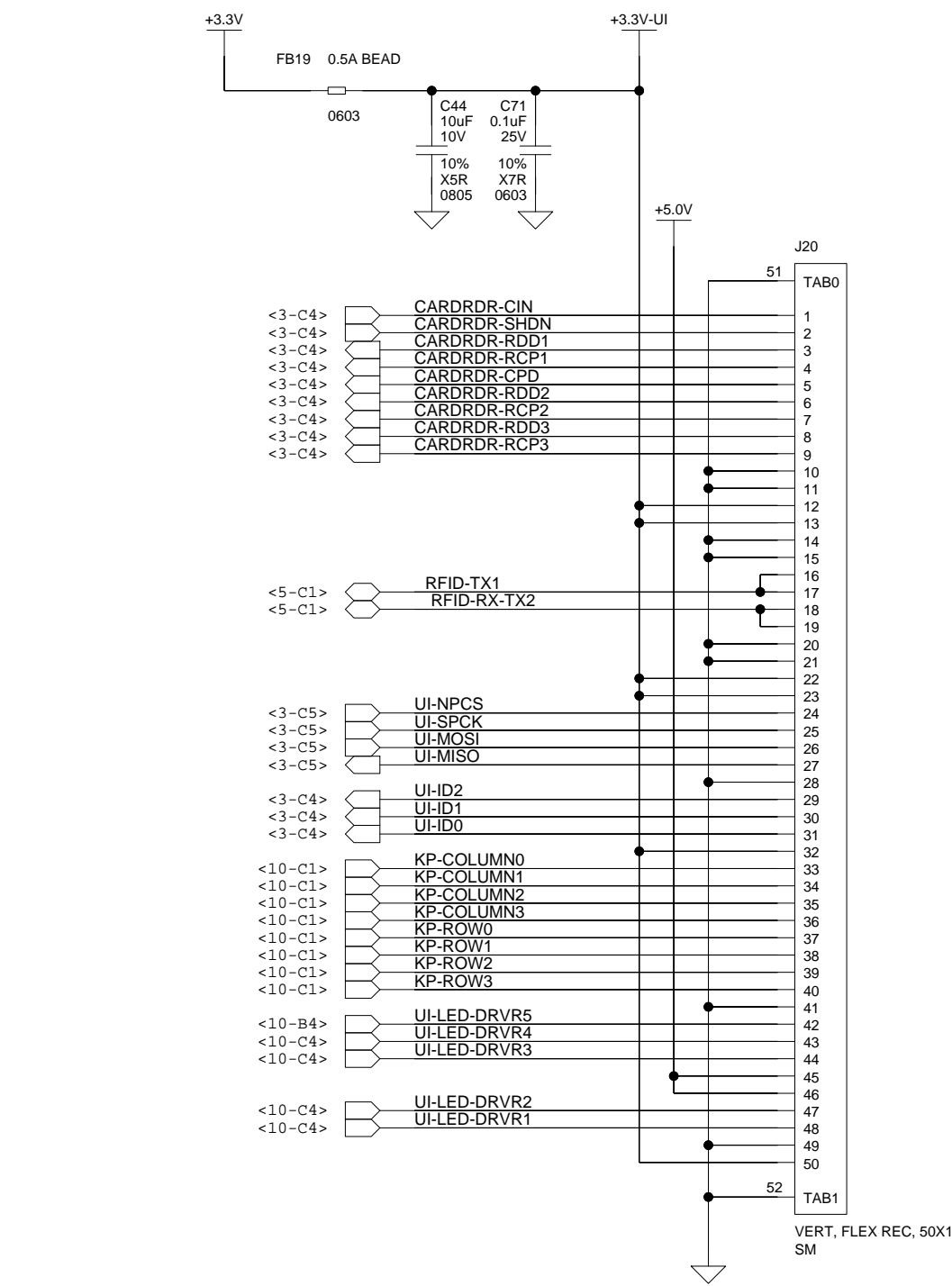
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D

C

B

A



CTRL3	CTRL2	CTRL1	CTRL0	Backlight Current (mA)
0	0	0	0	38.9
0	0	0	1	36.5
0	0	1	0	33.9
0	0	1	1	31.6
0	1	0	0	29.0
0	1	0	1	26.6
0	1	1	0	24.0
0	1	1	1	21.7
1	0	0	0	18.0
1	0	0	1	15.7
1	0	1	0	13.1
1	0	1	1	10.7
1	1	0	0	8.1
1	1	0	1	5.8
1	1	1	0	3.2
1	1	1	1	0.8
0	0	0	Z	38.0
0	0	Z	0	37.0
0	0	Z	Z	36.1
0	Z	0	0	35.2
0	Z	0	Z	34.3
0	Z	Z	0	33.3
0	Z	Z	Z	32.4
Z	0	0	0	31.1
Z	0	0	Z	30.2
Z	0	Z	0	29.2
Z	0	Z	Z	28.4
Z	Z	0	0	27.4
Z	Z	0	Z	26.5
Z	Z	Z	0	25.5
Z	Z	Z	Z	24.7
Z	Z	Z	1	23.2
Z	Z	1	Z	21.6
Z	Z	1	1	20.1
Z	1	Z	Z	18.5
Z	1	Z	1	17.0
Z	1	1	Z	15.4
Z	1	1	1	13.9
1	Z	Z	Z	11.6
1	Z	Z	1	10.1
1	Z	1	Z	8.5
1	Z	1	1	7.0
1	1	Z	Z	5.4
1	1	Z	1	3.9
1	1	1	Z	2.3
1	1	1	1	0.8

FLEX CABLE CONNECTOR

TITLE				WPS03	
SIZE	DWG NO			REV	
C	DWG_NUMBER			2.0	
SCALE	SHEET	9 of 10		30-04-2012_13:28	

D

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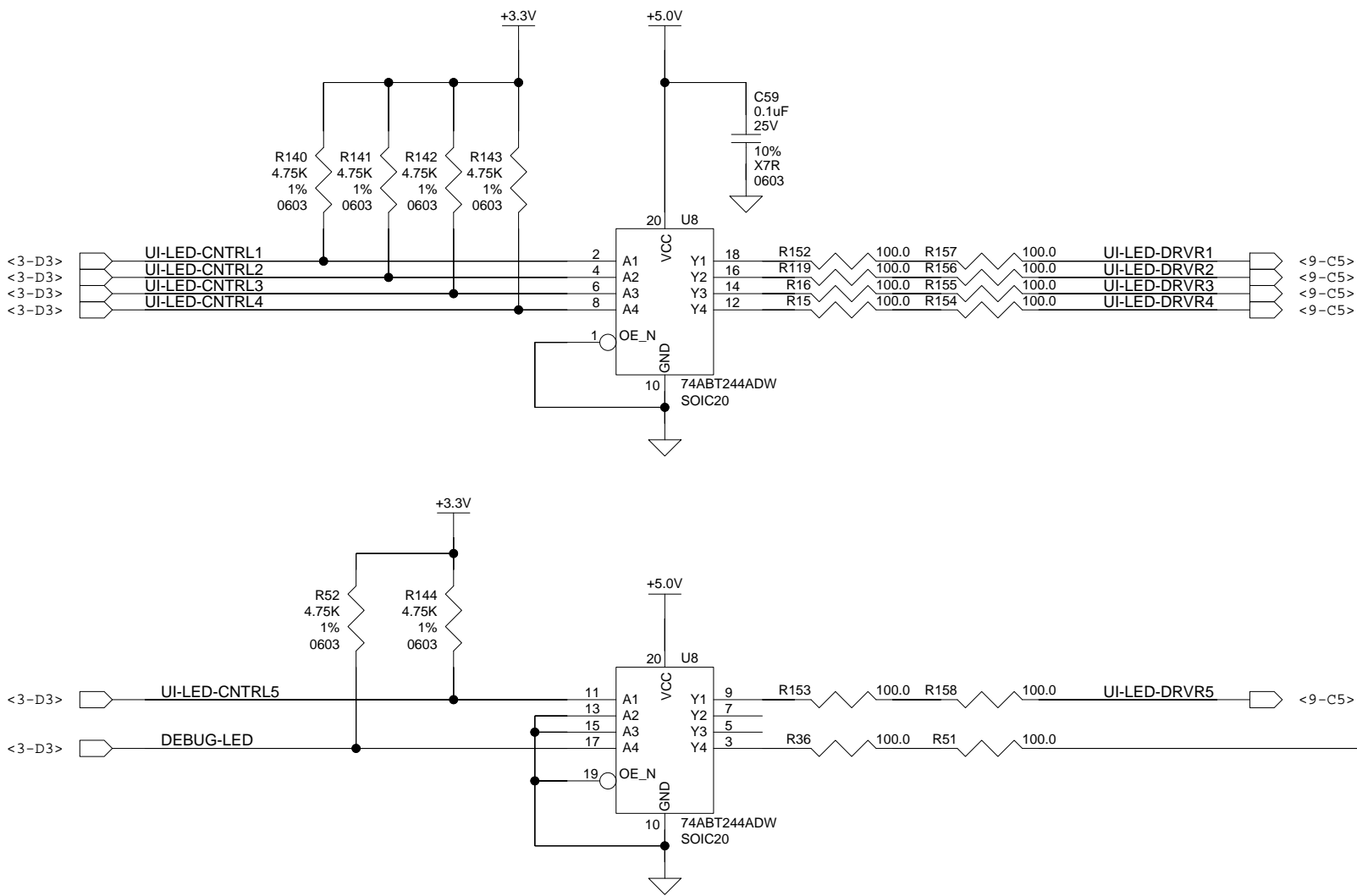
A

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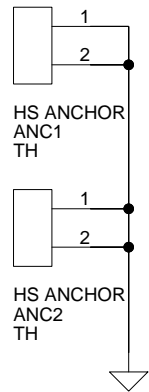
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A



GND loops for probe clips



Mechanical

TITLE			
WPS03			
SIZE	DWG NO		REV
C	DWG_NUMBER		2.0
SCALE	SHEET	DATE	
	10 of 10	30-04-2012_13:28	

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