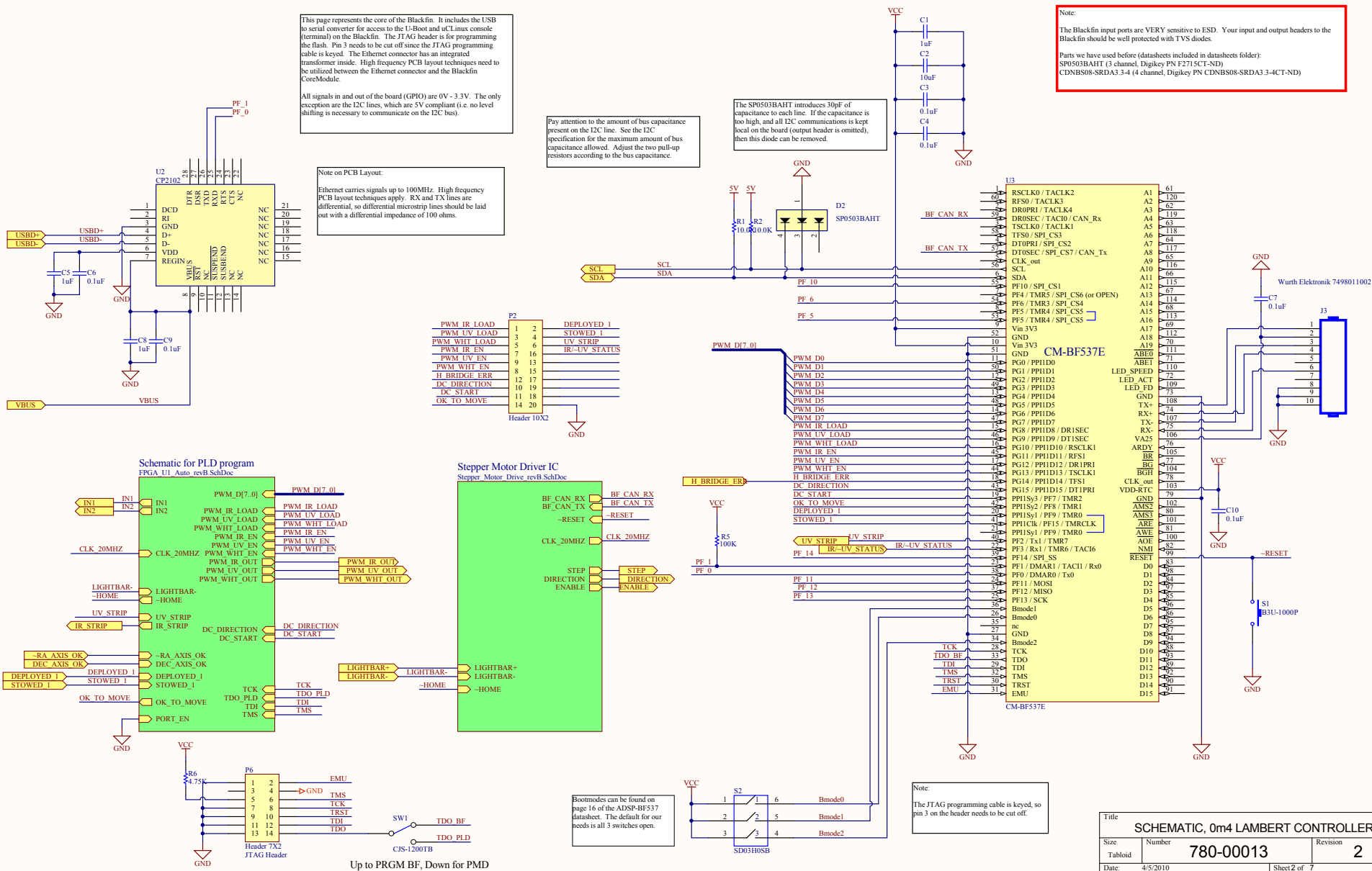


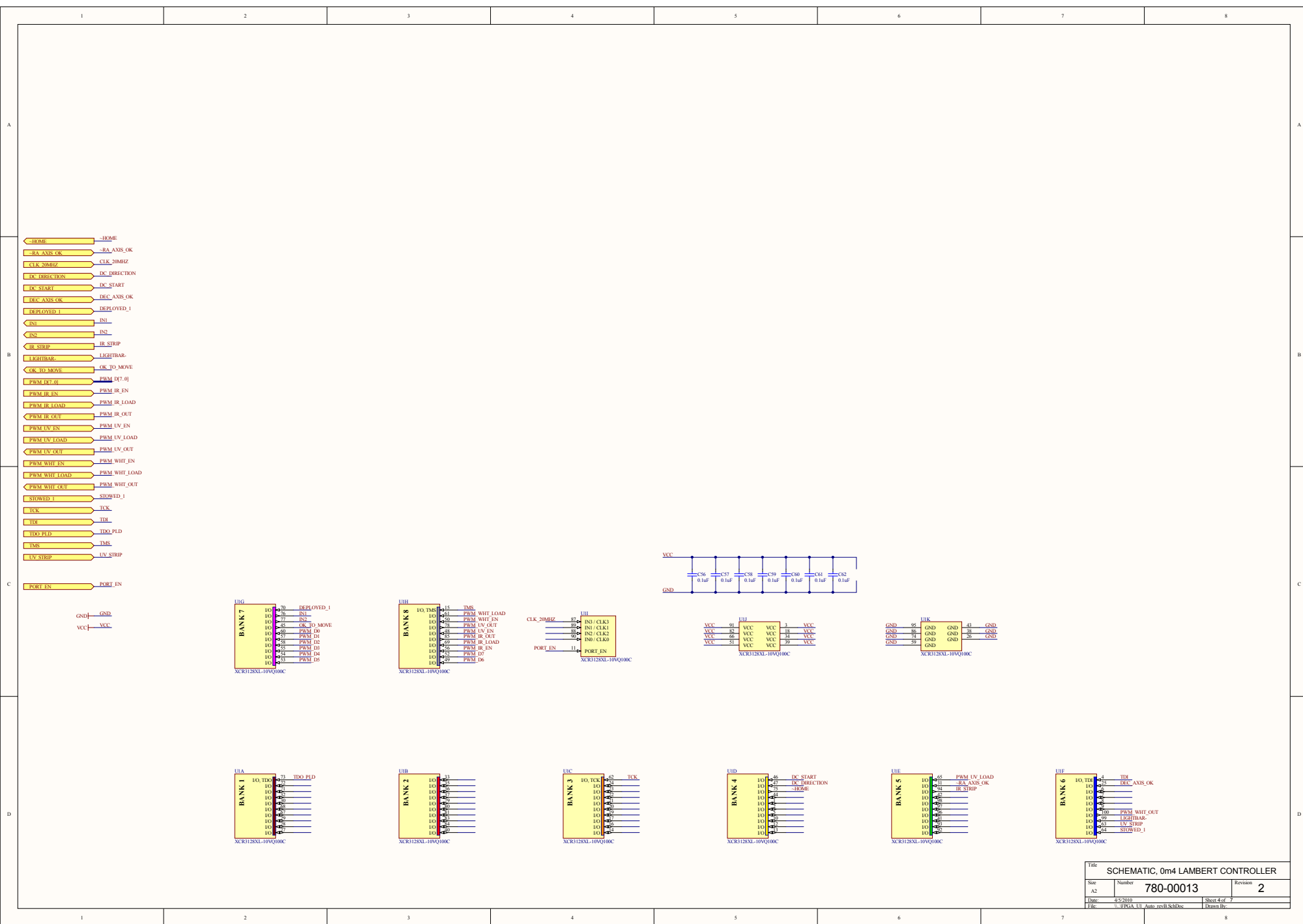
Pay attention to the amount of bus capacitance present on the I2C line. See the I2C specification for the maximum amount of bus capacitance allowed. Adjust the two pull-up resistors according to the bus capacitance.

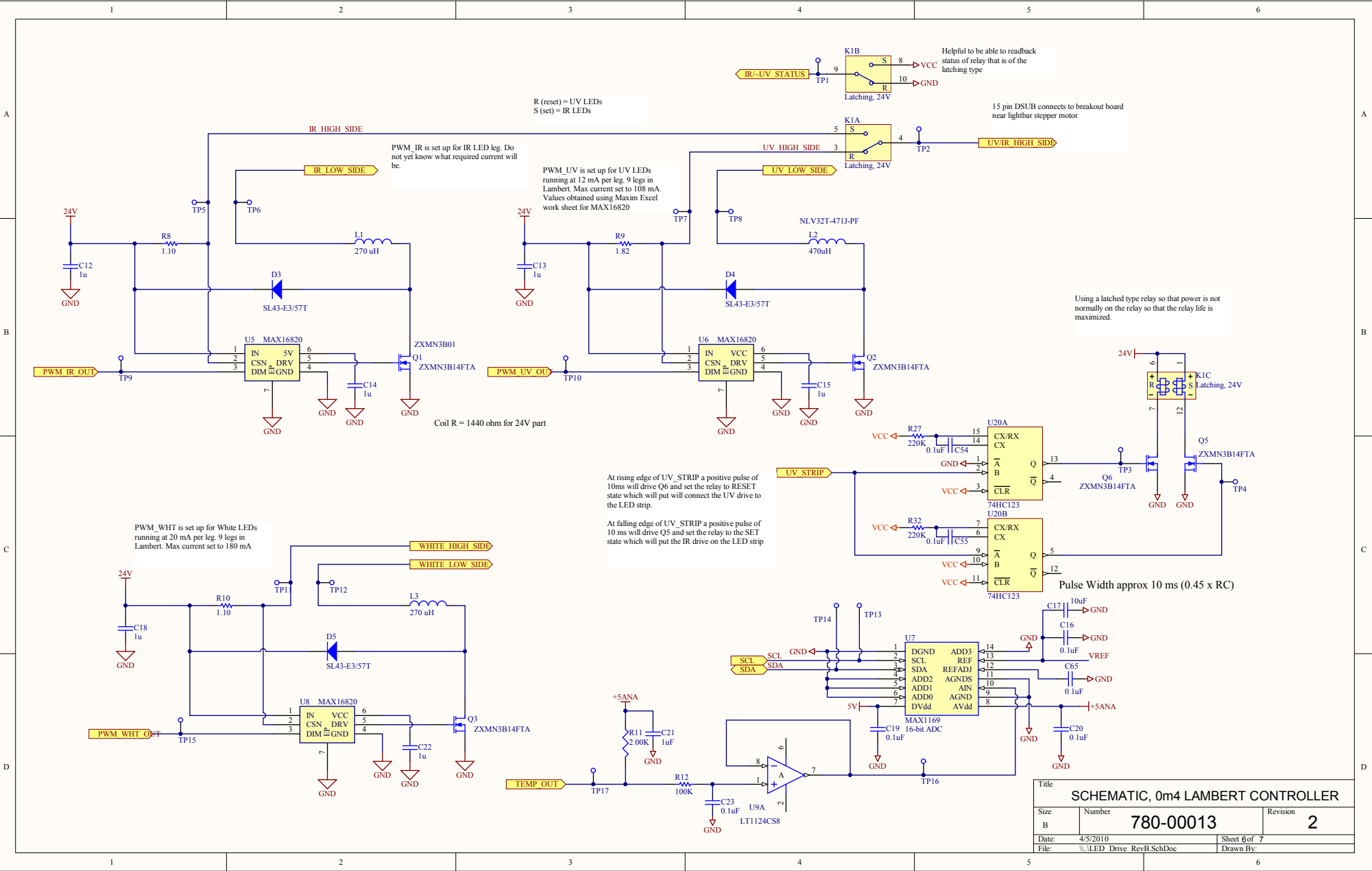
The SP0503BAHT introduces 30pF of capacitance to each line. If the capacitance is too high, and all I2C communications is kept local on the board (output header is omitted), then this diode can be removed.

Ethernet carries signals up to 100MHz. High frequency PCB layout techniques apply. RX and TX lines are differential, so differential microstrip lines should be laid out with a differential impedance of 100 ohms.



Title			SCHEMATIC, 0m4 LAMBERT CONTROLLER		
Size	Number			Revision	
Tabloid	780-00013			2	
Date:	4/5/2010			Sheet 2 of	7
File:	\\Blackfin_revB SchDoc			Drawn By:	





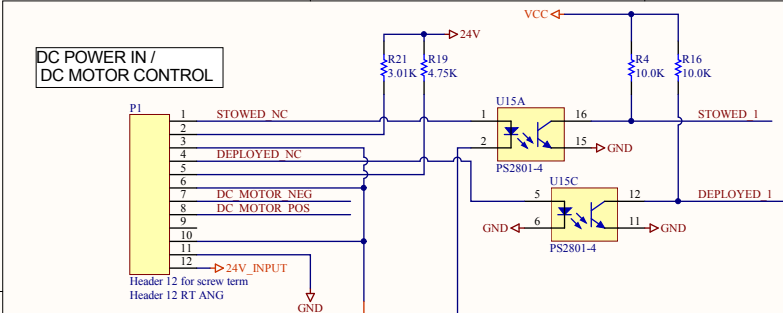
Title		
SCHEMATIC, 0m4 LAMBERT CONTROLLER		
Size	Number	Revision
B	780-00013	2
Date:	4/5/2010	Sheet 6 of 7
File:	\\LED Drive_RevB SchDoc	Drawn By:

The ADP3338 is a 3.3V linear regulator with a maximum output current of 1A.

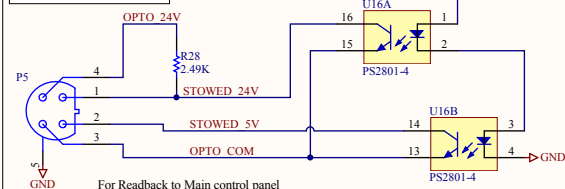


Title			
SCHEMATIC, 0m4 LAMBERT CONTROLLER			
Size	Number	Revision	
Tabloid	780-00013	2	
Date:	4/5/2010	Sheet 5 of 7	
File:	\\Power Input revB SchDoc	Drawn By:	

DC POWER IN / DC MOTOR CONTROL



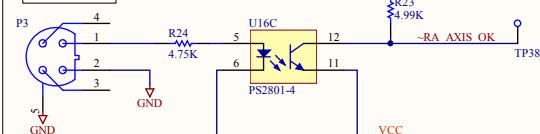
POSITION STATUS



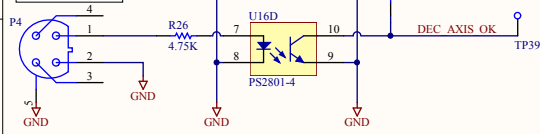
For Readback to Main control panel

The STOWED_5V goes directly to an OC input on the WinSystems board for direct reading of the status of Lambert

RA PROXY

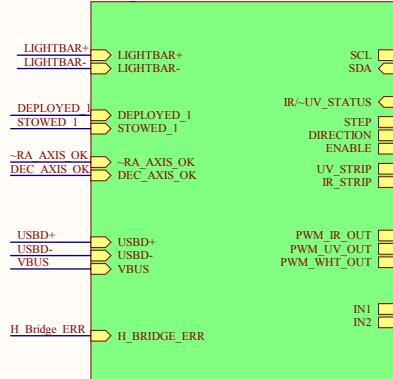


DEC PROXY



BlackFin --> CPLD/Stepper Motor Drive

Blackfin revB.SchDoc

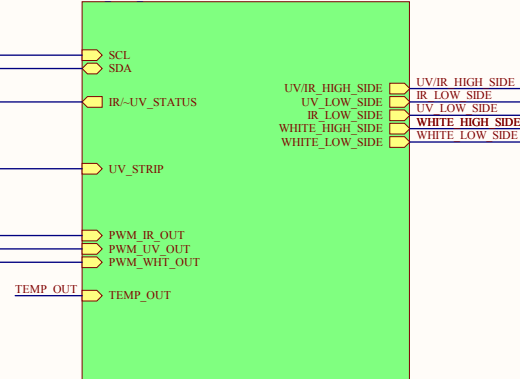


LIGHTBAR+ and LIGHTBAR- are HIGH true because PMD controller chip expects this. If both signals are high this is an error due to no voltage on the limit switches.

Limit switches on light bar should have +24V to common and then the NC side of the switch should be wired back to the U15 opto's. In the middle of a light bar move both LIGHTBAR signals will be low.

LED Drive

LED Drive RevB.SchDoc

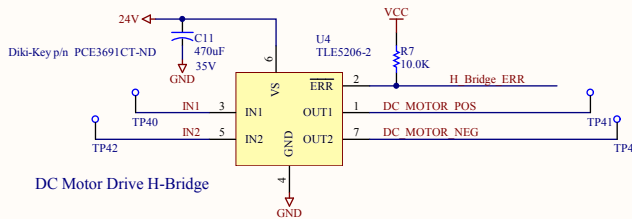
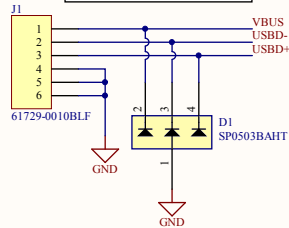


Power Supplies

Power Input revB.SchDoc



This is the serial to USB converter that allows for console access to U-Boot and uClinux.



Title			
SCHEMATIC, 0m4 LAMBERT CONTROLLER			
Size	Number	Revision	
B	780-00013	2	
Date:	4/5/2010	Sheet 1 of 7	
File:	\\.\Top_Level_IO_revB.SchDoc	Drawn By:	

