

Page 2

Power, Flash, SDcard
User switch, Reset switch.

Page 3

Ethernet

Page 4

Audio

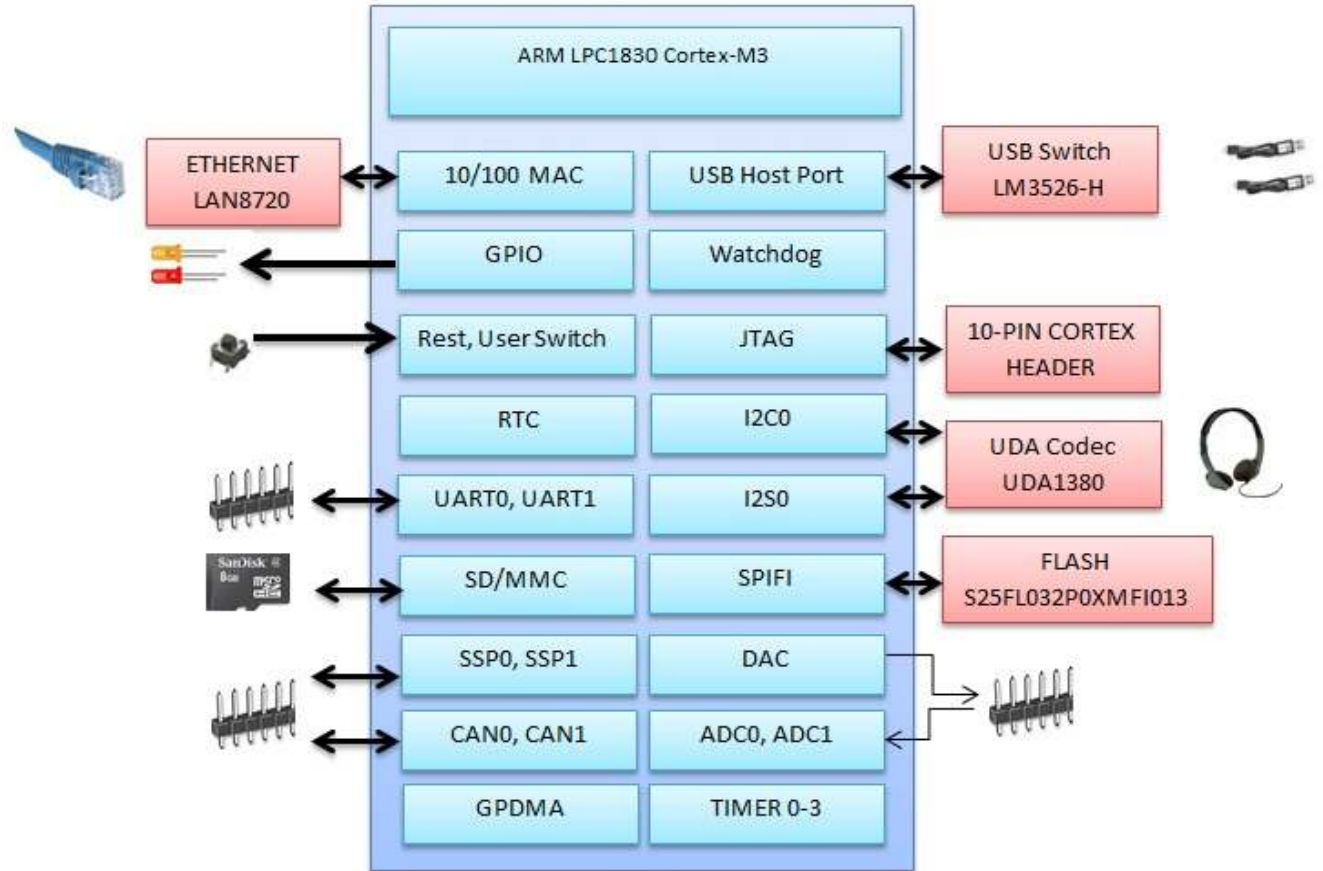
Page 5

USB

Page 6

JTAG, BOOTSW, LED, Header

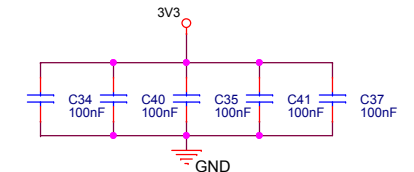
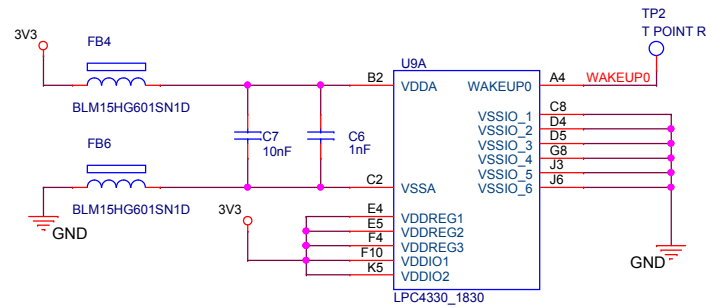
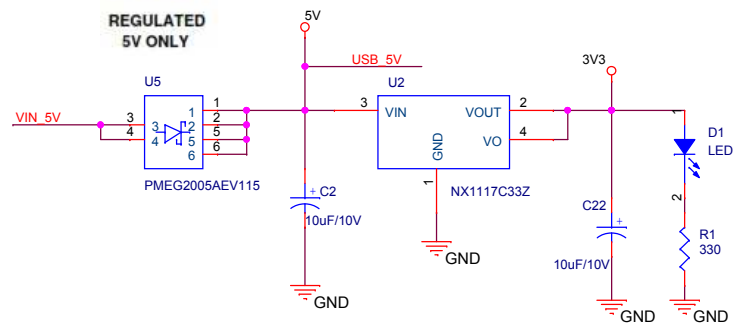
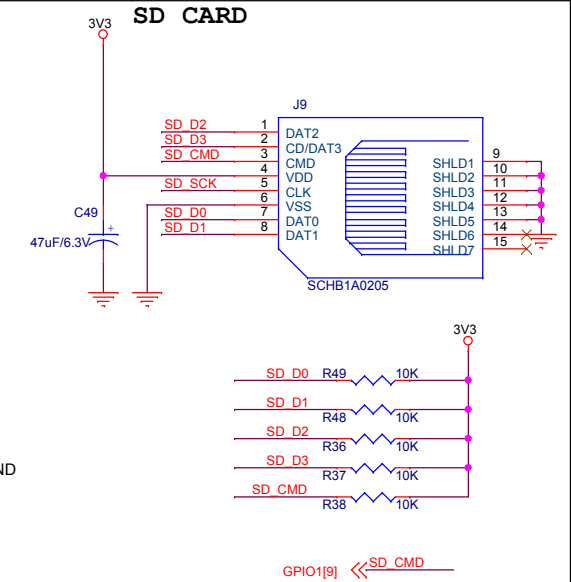
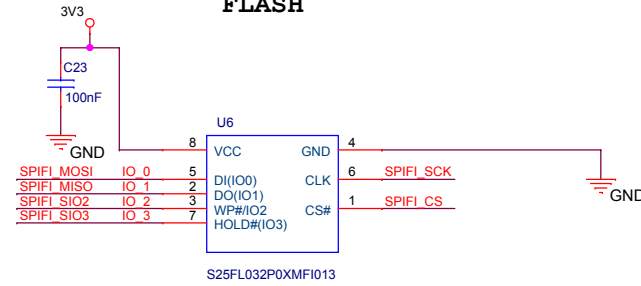
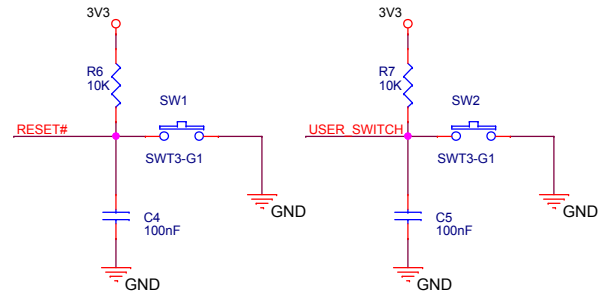
Design Overview

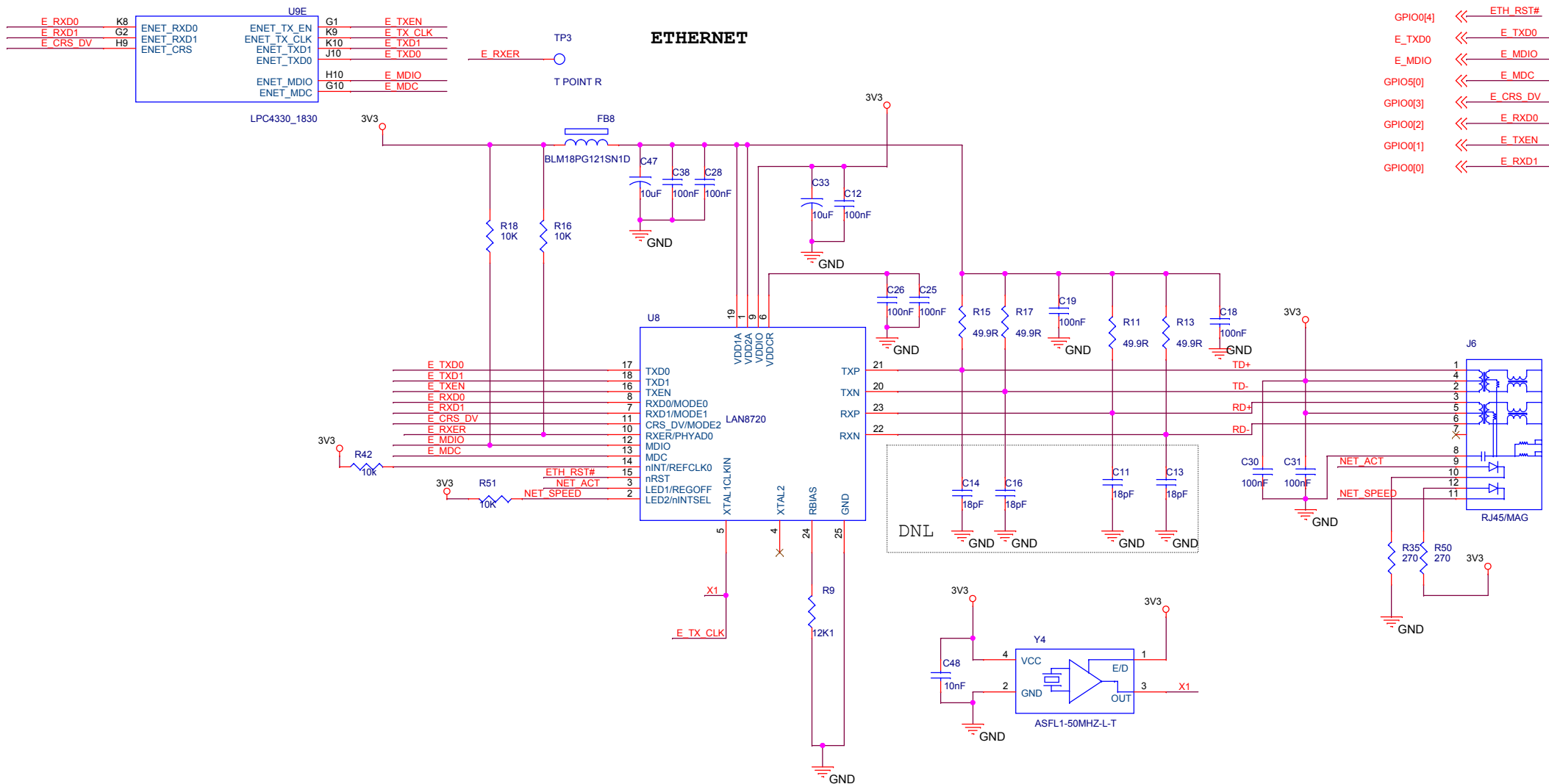


Disclaimer:

Schematic's are for reference only.
NGX Technologies Pvt. Ltd. provides no warranty for the use of
these schematics.

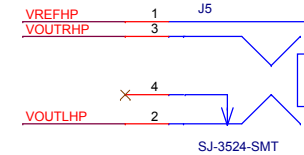
NGX Technologies Pvt. Ltd.	
Title	01 COVER
Size B	Document Number XPLOER
Date:	Monday, March 26, 2012
Sheet	1 of 6
Rev	1.2






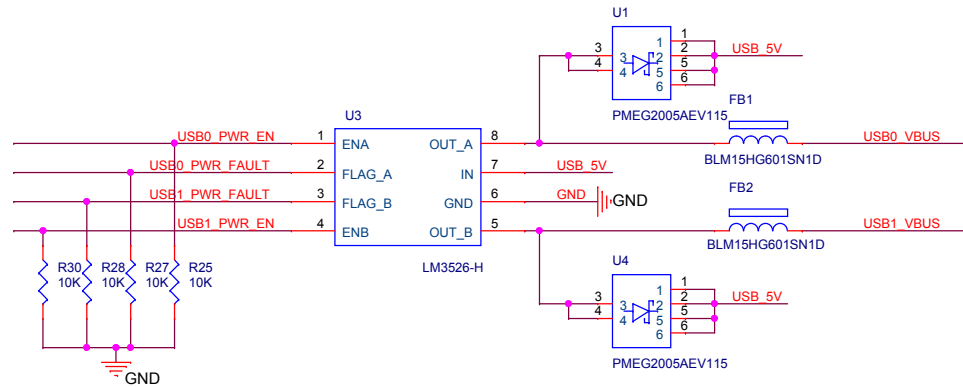
NGX Technologies Pvt. Ltd.		
Title		
03 ETHERNET		
Size	Document Number	Rev
B	XPLOER	1.2
Date:	Monday, March 26, 2012	Sheet 3 of 6

GPIO0[14] << UDA_RST

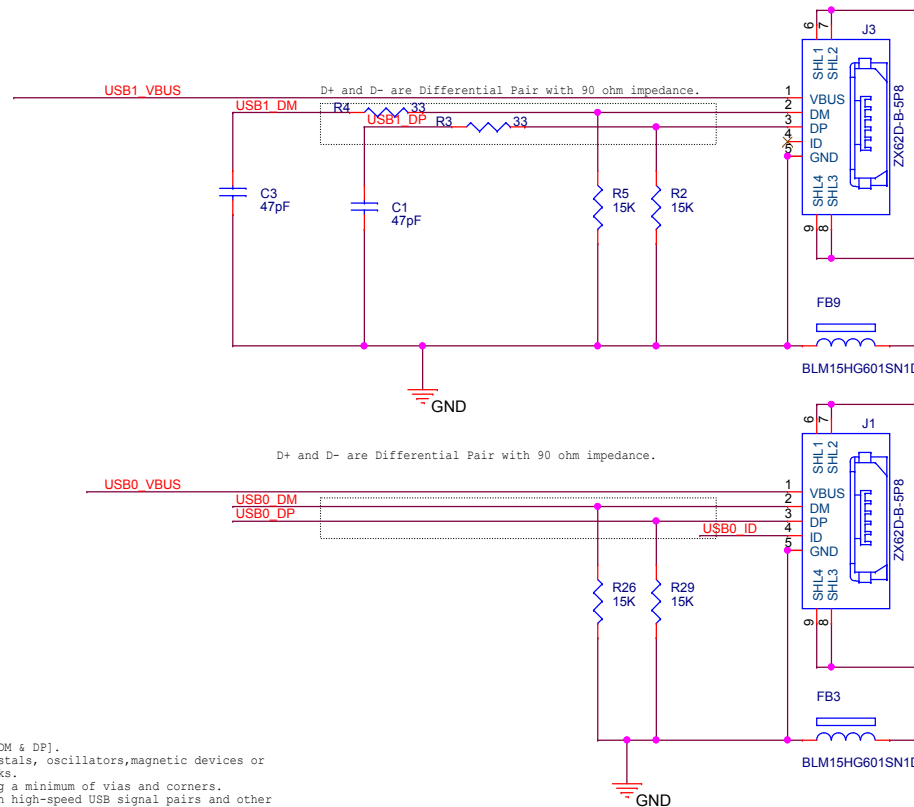


 NGX Technologies Pvt. Ltd.	
Title 04 AUDIO	
Size B	Document Number XPLORER
Rev 1.2	
Date: Monday, March 26, 2012	Sheet 4 of 6

USB SECTION



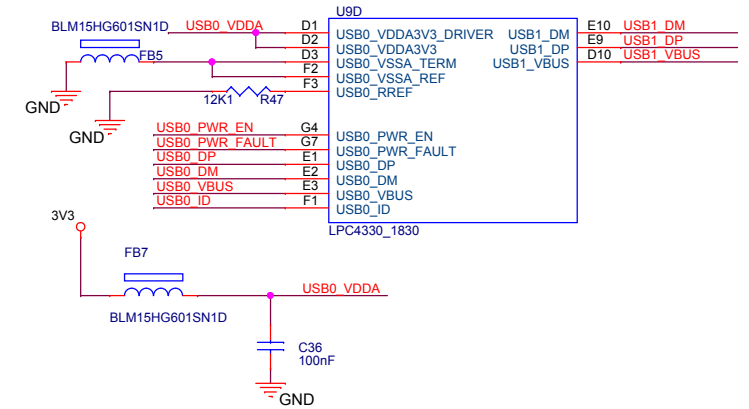
USB1 Power enable and fault pins are monitored/controlled using GPIO.



USB ROUTING GUIDELINES

- =>Route USB trace pairs together [DM & DP].
- =>Do not route USB traces under crystals, oscillators, magnetic devices or ICs that use and/or duplicate clocks.
- =>Route high-speed USB signals using a minimum of vias and corners.
- =>Use 20-mil minimum spacing between high-speed USB signal pairs and other signal traces for optimal signal quality.

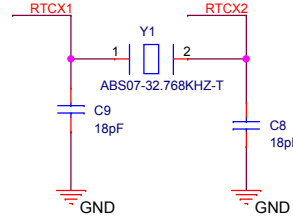
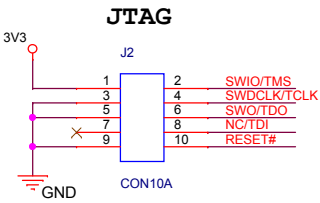
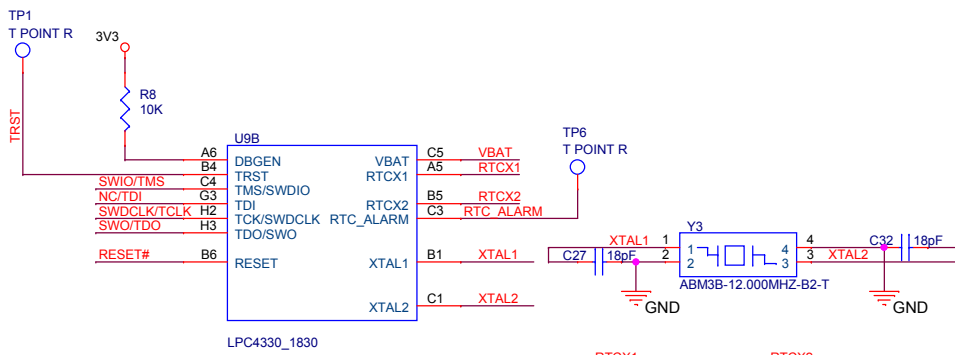
USB1_DM << USB1_DM
 USB1_DP << USB1_DP
 USB_5V << USB_5V
 GPIO5[6] << USB1_PWR_EN
 GPIO1[13] << USB1_PWR_FAULT
 GPIO5[5] << USB1_VBUS
 GPIO5[1] << USB0_PWR_FAULT



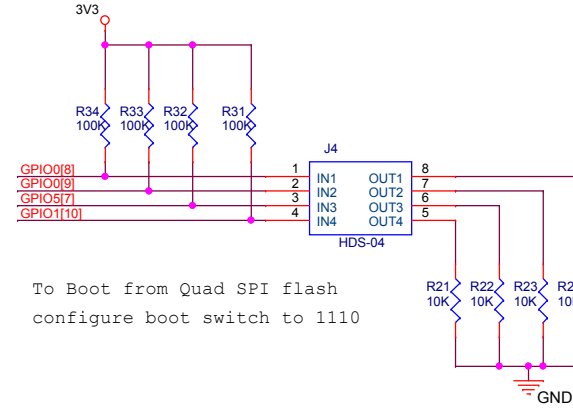
	1/0
USB0_PWR_EN	HOST/DEVICE
USB1_PWR_EN	HOST/DEVICE

NOTE:- When both USB0 and USB1 are in Host mode external 5V DC to be given to J8 pin 2.

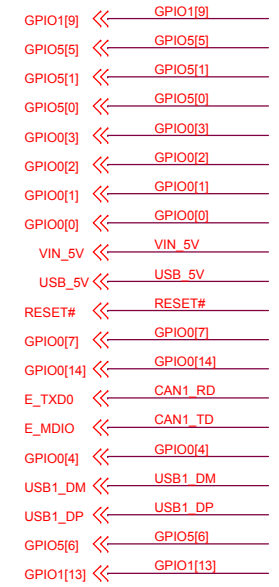
NGX Technologies Pvt. Ltd.		
Title 05 USB		
Size B	Document Number XPLOER	Rev 1.2
Date: Monday, March 26, 2012	Sheet 5	of 6



BOOT SELECT SWITCH

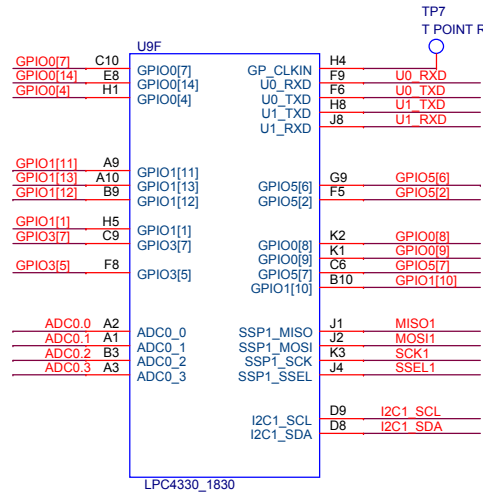
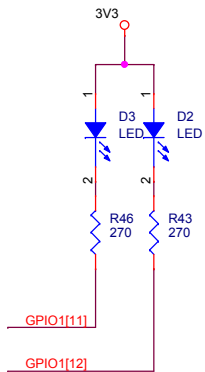


To Boot from Quad SPI flash
configure boot switch to 1110



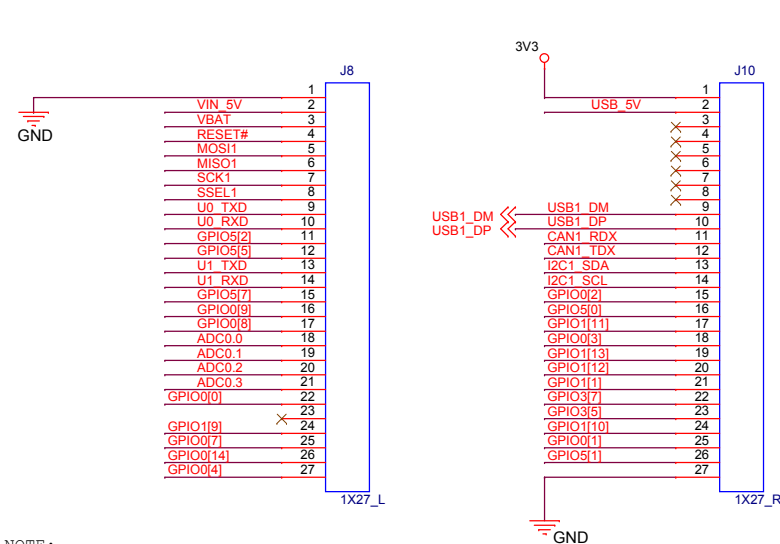
CAN1 IS MULTIPLEXED WITH ETHERNET

BLINKY LED



NOTE:

- * CAN1 cannot be used when Ethernet is enabled.
- * Load R52 and R53 to use CAN1
- * ADC lines 5V tolerant



NGX Technologies Pvt. Ltd.		
Title		
06 JTAG,BOOT SW,BLINKY LED,HEADER		
Size	Document Number	Rev
B	XPLOER	1.2
Date:	Monday, March 26, 2012	Sheet 6 of 6