

THIS SCHEMATIC IS FOR THE FOLLOWING ASSEMBLIES:

UEZGUI-4088-43WQN-BA

UEZGUI-4088-43WQH-BA

AND

UEZGUI-4088-43WQE-BA

FUTURE DESIGNS, INC. 996 A CLEANER WAY HUNTSVILLE, AL 35805		FDI
Title MICROPROCESSOR		
Size A	Document Number UEZGUI-4088-43WQN	Rev 2
Date: Thursday, December 03, 2015		Sheet 0 of 5

REVISION HISTORY	
04/01/2013	1 INITIAL RELEASE
02/10/2014	1.1 CHANGE U10 TO MAX9288 (EPIPE)
09/03/2014	1.2 UPDATE PCB FIRMWARE & OBSOLETE PARTS - NO HARDWARE DIFFERENCES
03/30/2015	1.3 CHANGE BACKLIGHT CURRENT RESISTOR
10/16/2015	2 CHANGE ACCELEROMETER U14 TO LIS3DH, CHANGE J7 OFFBOARD SPIER TO NEW REV. COMPATIBLE FOOTPRINT

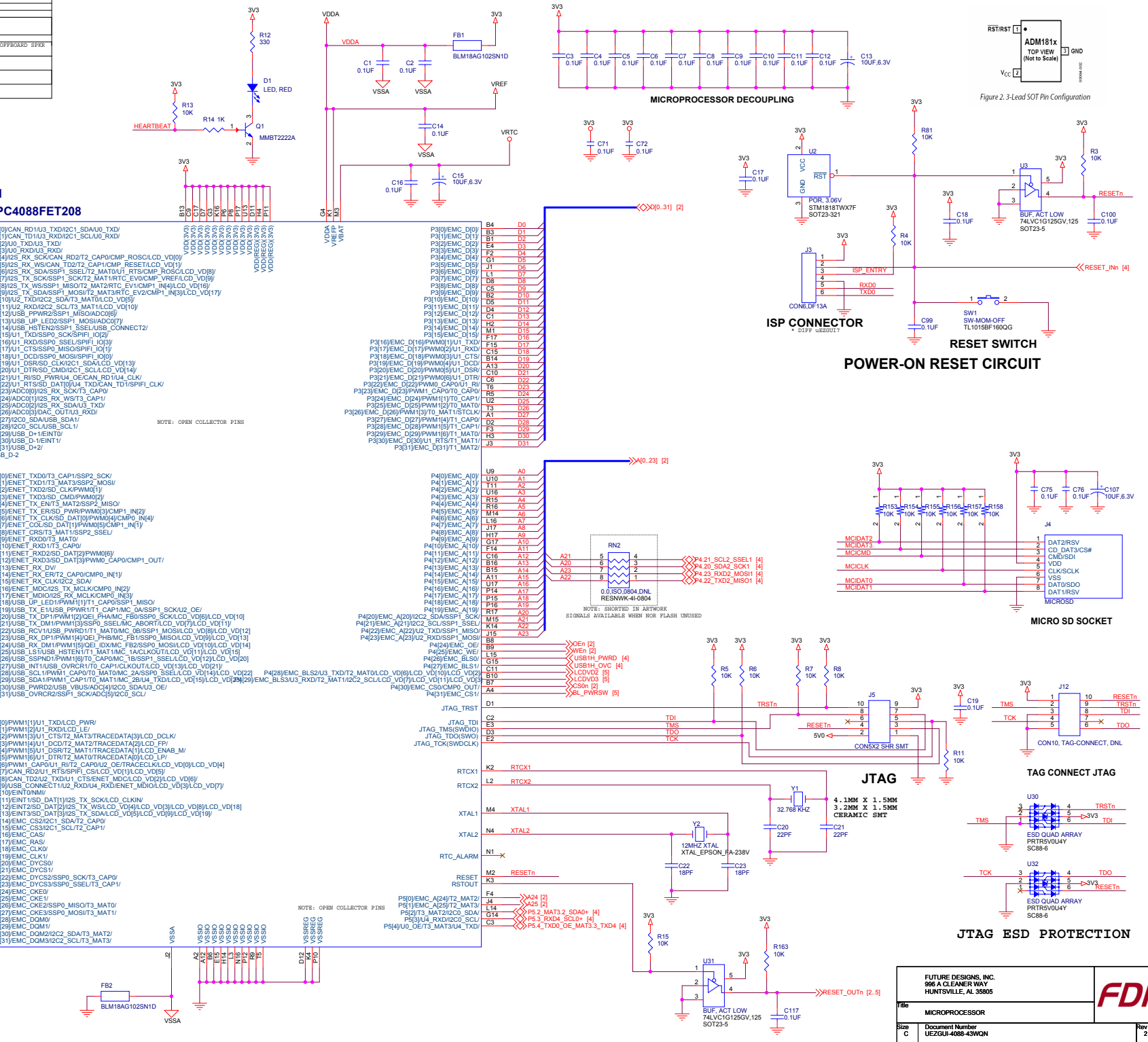
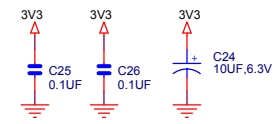
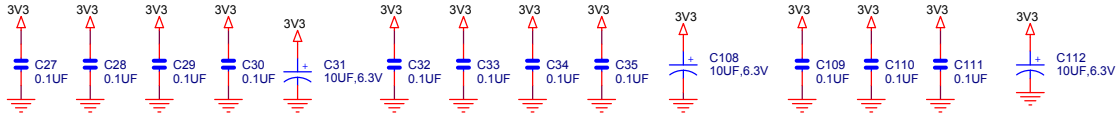
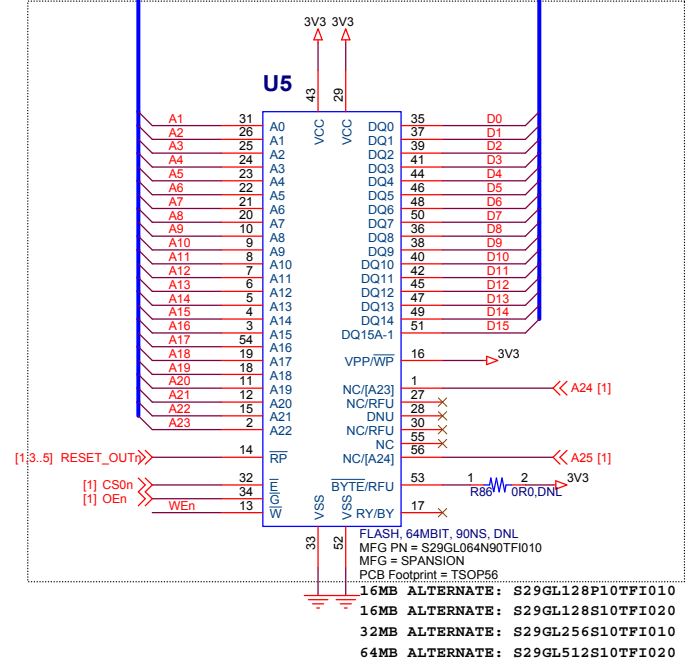
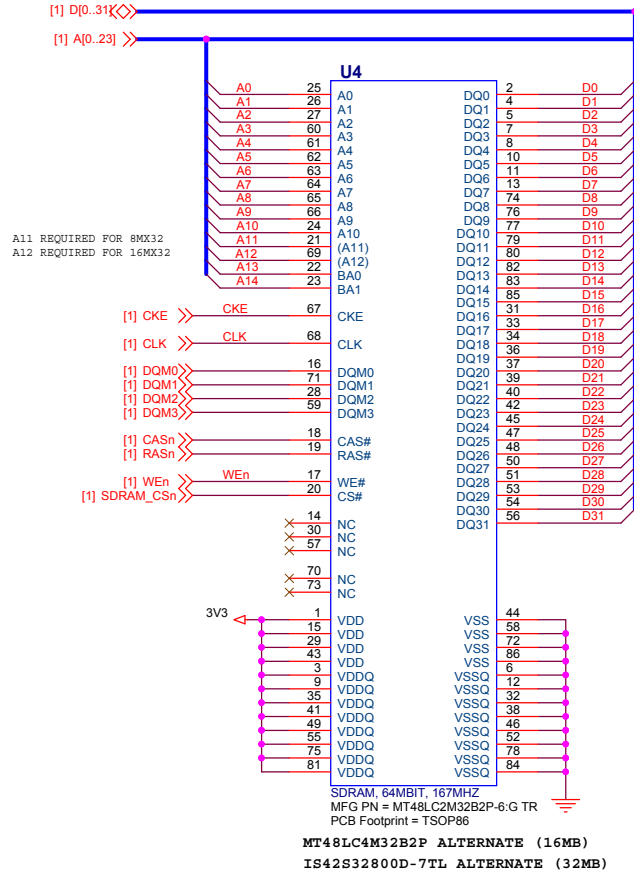


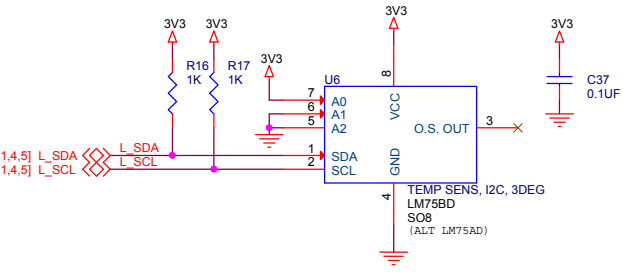
Figure 2. 3-Lead SOT Pin Configuration

FUTURE DESIGNS, INC. 996 A CLEANER WAY HUNTSVILLE, AL 35895		
MICROPROCESSOR U1 Document Number UEZGUR-4088-43WQCN		
Date: Friday, November 06, 2015	Sheet: 1 of 5	Rev: 2



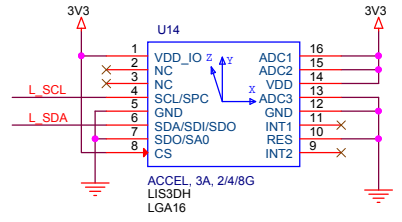
FUTURE DESIGNS, INC. 996 A CLEANER WAY HUNTSVILLE, AL 35805		FDI
Title: SDRAM FLASH		
Size: B	Document Number: UEZGUI-4088-43WQN	Rev: 2
Date: Friday, October 16, 2015	Sheet: 2	of 5

TO CONVERT FROM USB MINI-AB TO USB A UTILIZE CABLE SHOWN BELOW, AVAILABLE FROM DIGI-KEY, PN: 10-00003-ND



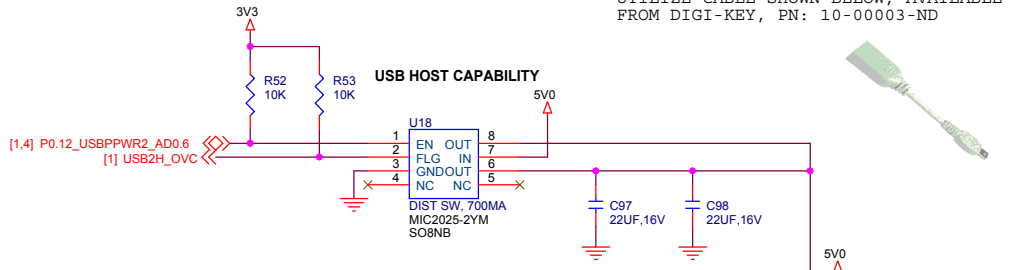
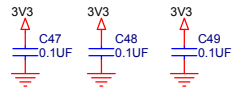
TEMP SENSOR

I2C ADDRESS = 0x92
Range & Accuracy: +/- 2 C from -25 C to 100 C
+/- 3 C from -55 C to 125 C

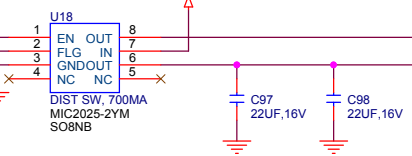


3D ACCELEROMETER

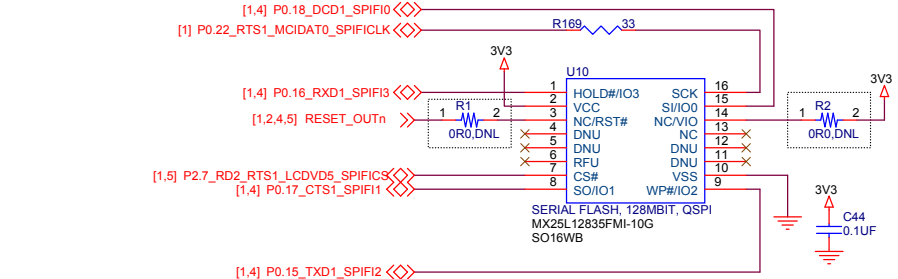
I2C ADDRESS = 0011000rb (30h)



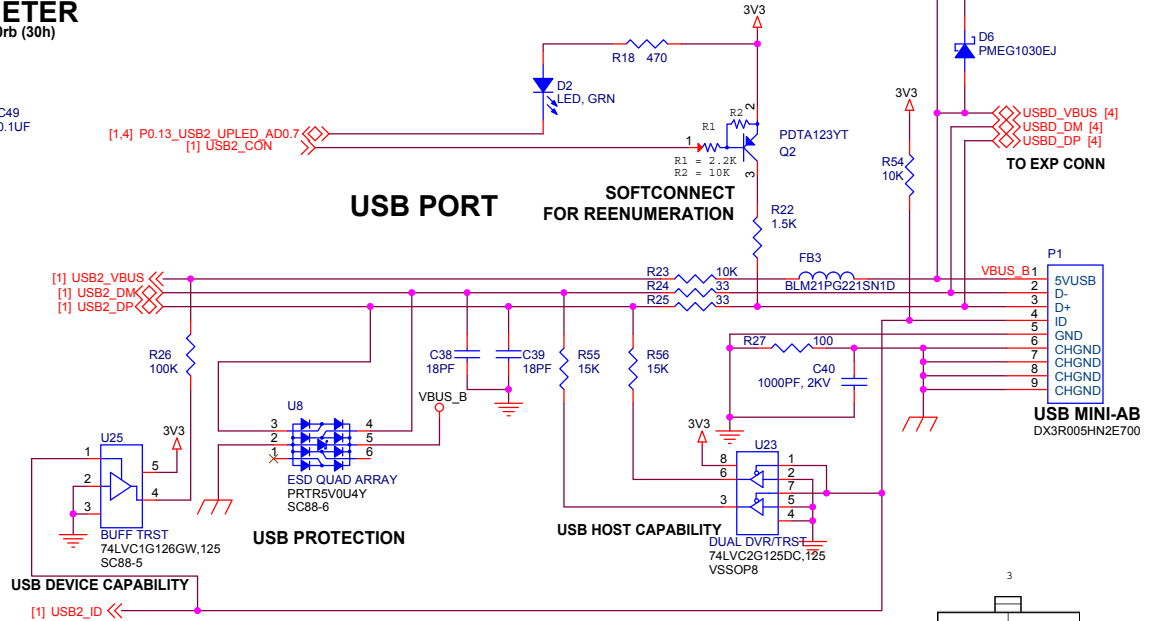
USB HOST CAPABILITY



USB POWER INPUT



QUADSPI/SPIFI SERIAL FLASH



USB PORT

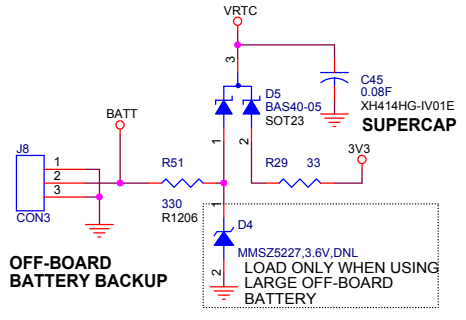
SOFTCONNECT FOR REENUMERATION

USB DEVICE CAPABILITY

USB HOST CAPABILITY

USB MINI-AB

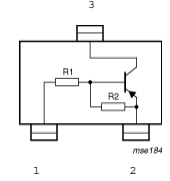
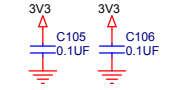
DX3R005HN2E700



OFF-BOARD BATTERY BACKUP

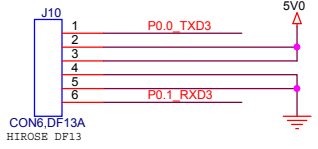
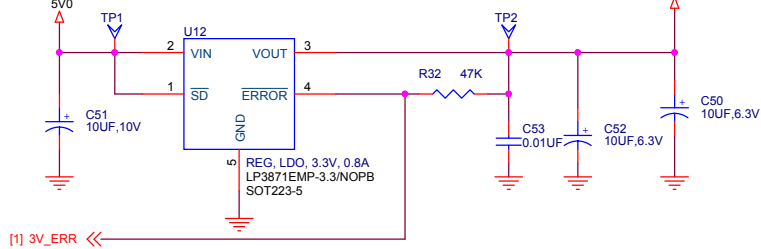
SUPERCAP

USB_ID IS HIGH FOR DEVICE, LOW FOR HOST

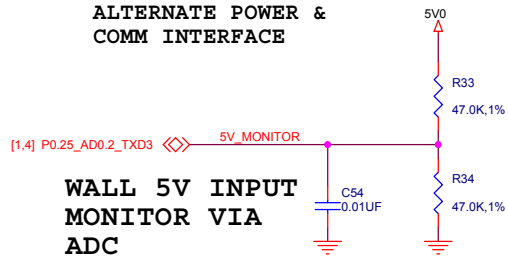


FUTURE DESIGNS, INC. 996 A CLEANER WAY HUNTSVILLE, AL 35805		FDI
Title	USB DEVICE I2C PERIPHERALS	
Size B	Document Number UEZGUI-4088-43WQN	Rev 2
Date:	Friday, October 16, 2015	Sheet 3 of 5

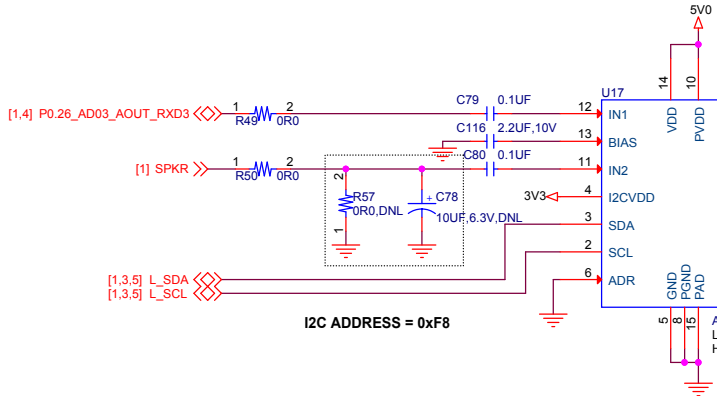
3.3V REGULATOR, 0.8A



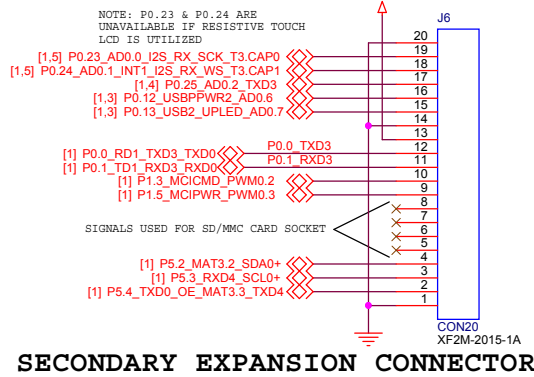
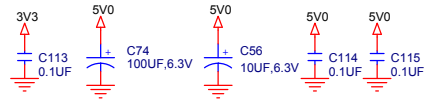
ALTERNATE POWER & COMM INTERFACE



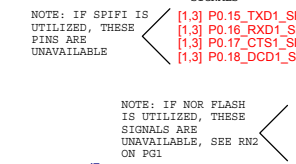
WALL 5V INPUT MONITOR VIA ADC



AMPLIFIER 1.3W BTL AMPLIFIER 3.6V TO 5.5V SUPPLY 8 OHM THD<1% -54db TO +18db GAIN 12.5KOHM INPUT IMPEDANCE



SECONDARY EXPANSION CONNECTOR



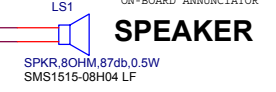
NOTE: IF SPIF1 IS UTILIZED, THESE PINS ARE UNAVAILABLE

NOTE: IF NOR FLASH IS UTILIZED, THESE SIGNALS ARE UNAVAILABLE, SEE RN2 ON PGI

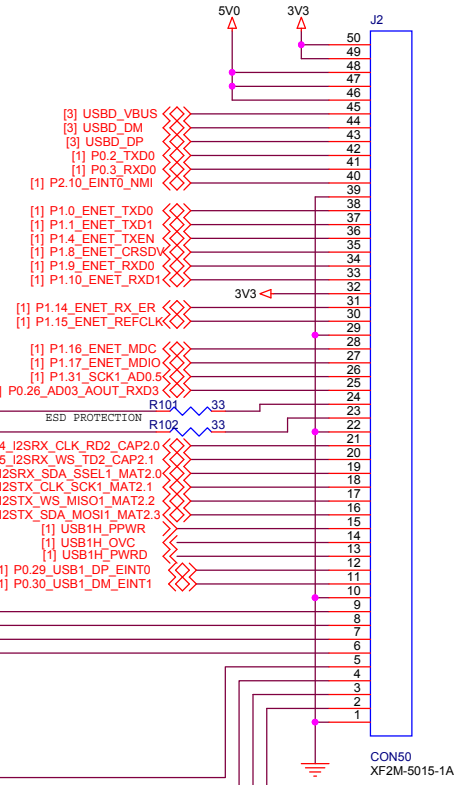
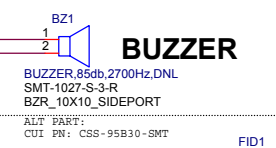
OPTIONAL OFF-BOARD SPEAKER SUPPORT

PLUG IN OFF-BOARD SPEAKER DISABLES ON-BOARD ANNUNCIATOR

SPEAKER

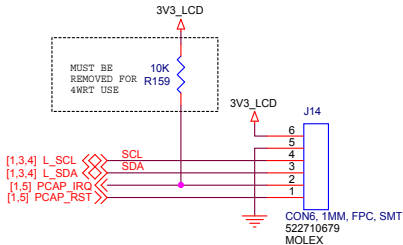
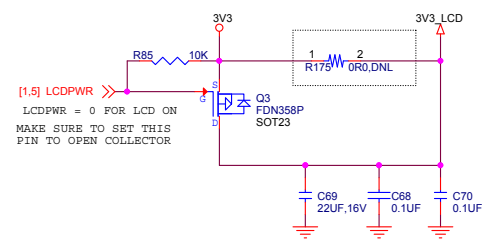
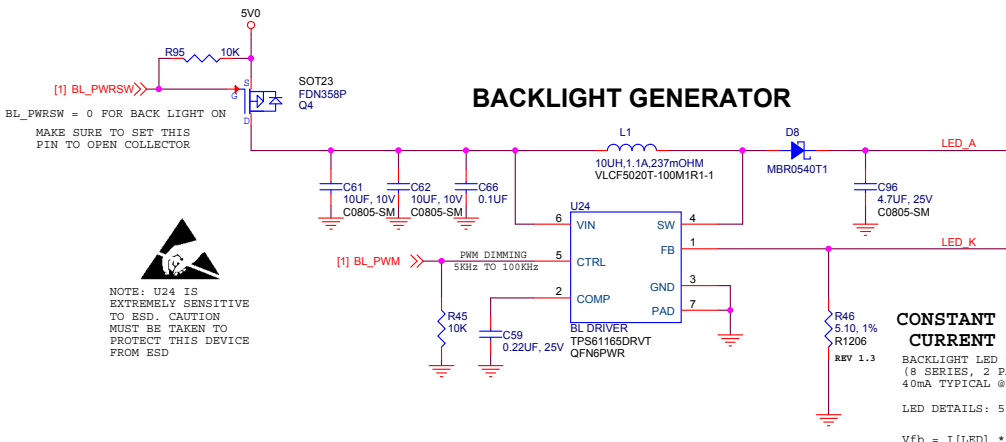


BUZZER

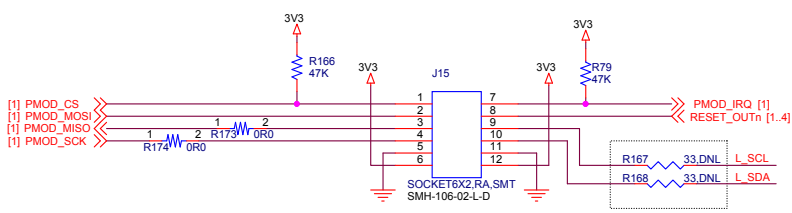
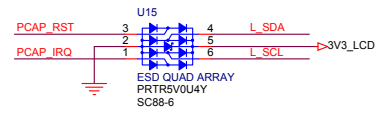


PRIMARY EXPANSION CONNECTOR

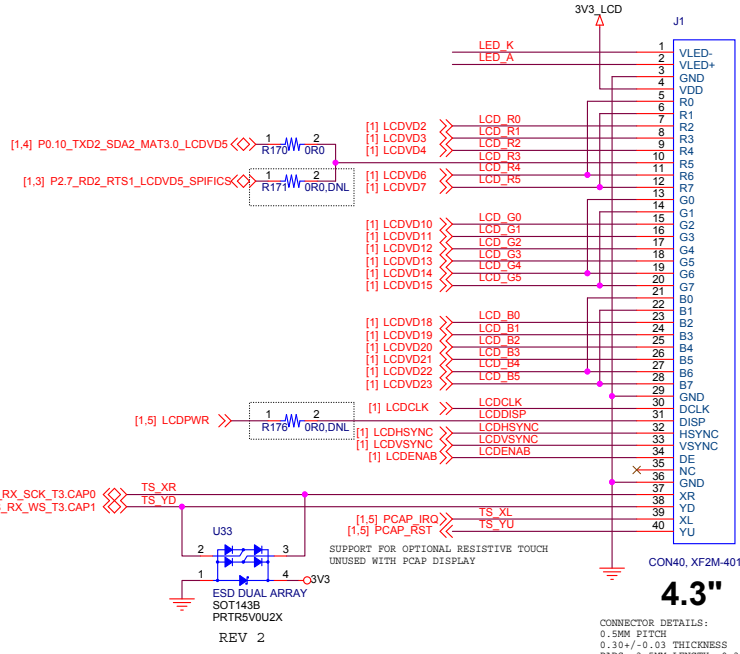
FUTURE DESIGNS, INC. 996 A CLEANER WAY HUNTSVILLE, AL 35805		
Title	VREG IO CONN SPKR	
Size	Document Number UEZGUI-4088-43WQN	Rev 2
Date	Monday, January 11, 2016	Sheet 4 of 5



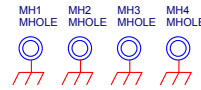
CAP TOUCH INTERFACE



PMOD CONNECTOR (TYPE 2A) RIGHT ANGLE SMT



4WRT ESD PROTECTION



FUTURE DESIGNS, INC. 996 A CLEANER WAY HUNTSVILLE, AL 35805		FDI
File	LCD TP BL, WIFI	
Size	Document Number UEZGUI-4088-43WQCN	Rev 2
Date	Monday, January 11, 2016	Sheet 5 of 5