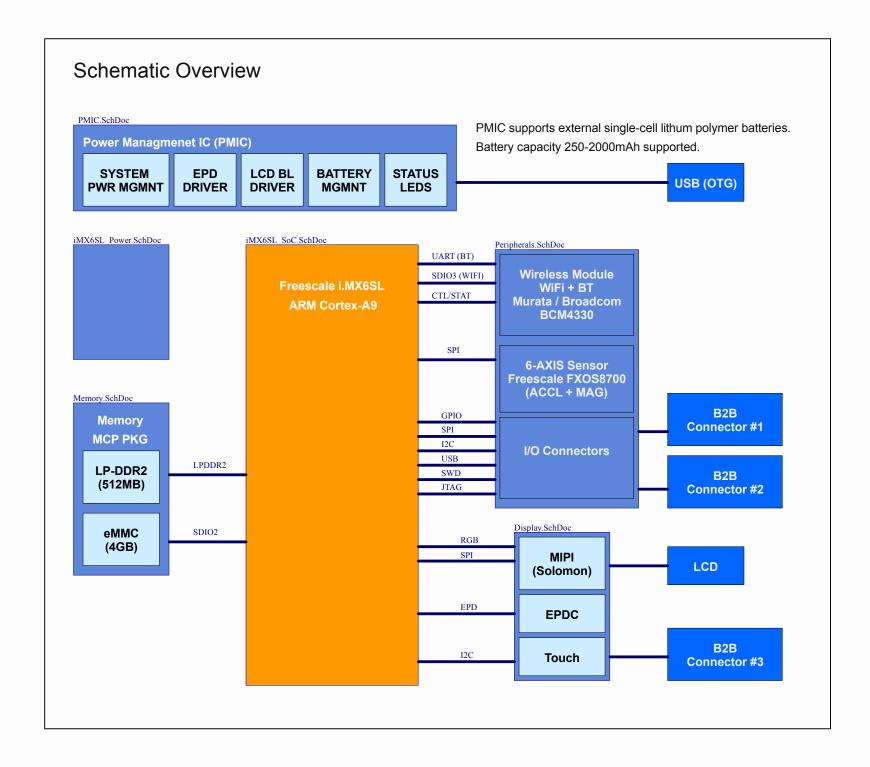
WaRP Mainboard Schematics

The Wearable Reference Platform (WaRP) has been developed in conjunction with Freescale, Kynetics, and Revotics. The hardware is designed by Revotics and is maintained and licensed under a Creative Commons Attribution-ShareAlike 4.0 International License. For the latest information, please visit our website at: http://revotics.com/warp



Document History

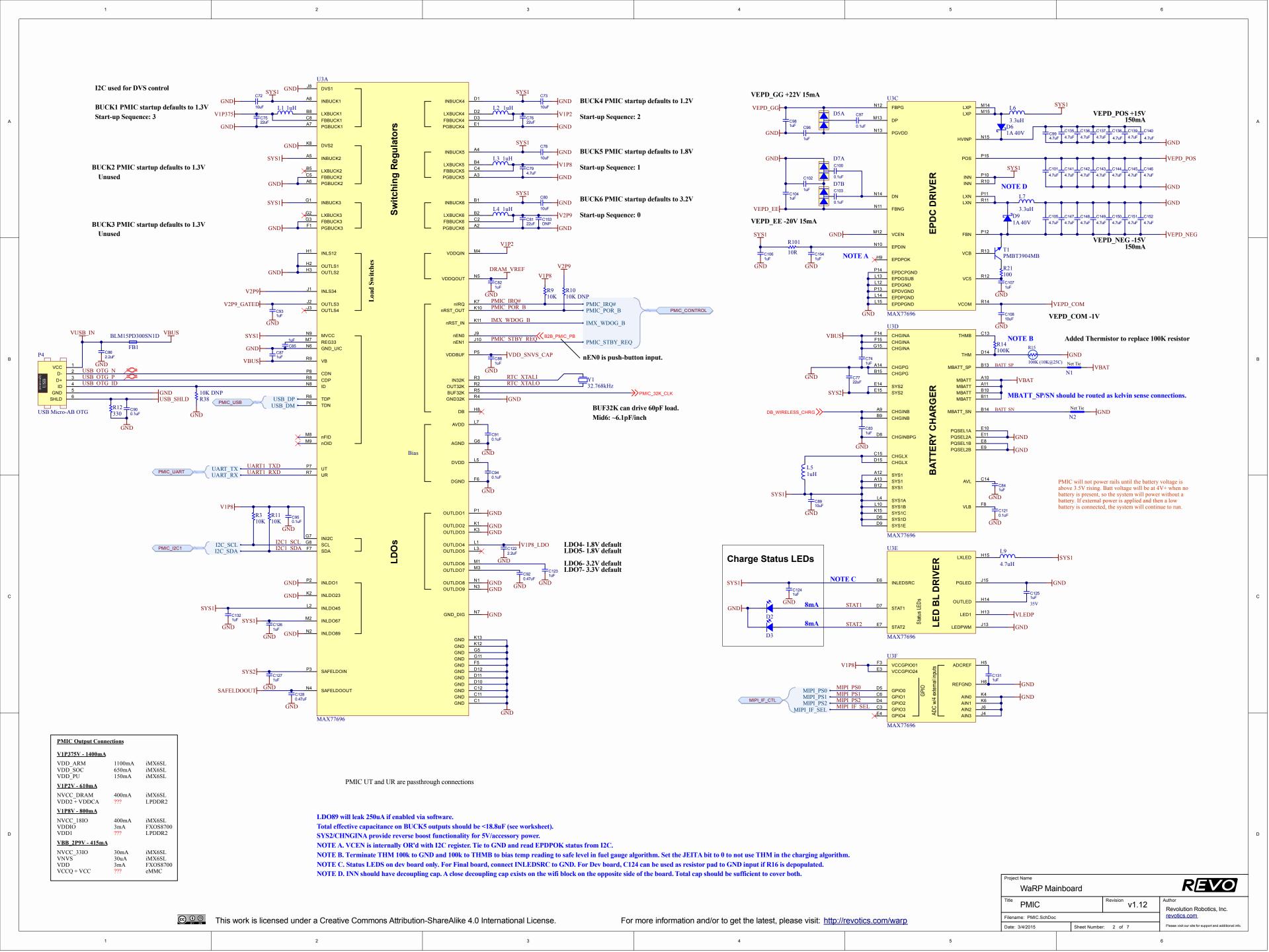
Date	Comment	Revision
01/15/2015	Initial Public Release	v1.11

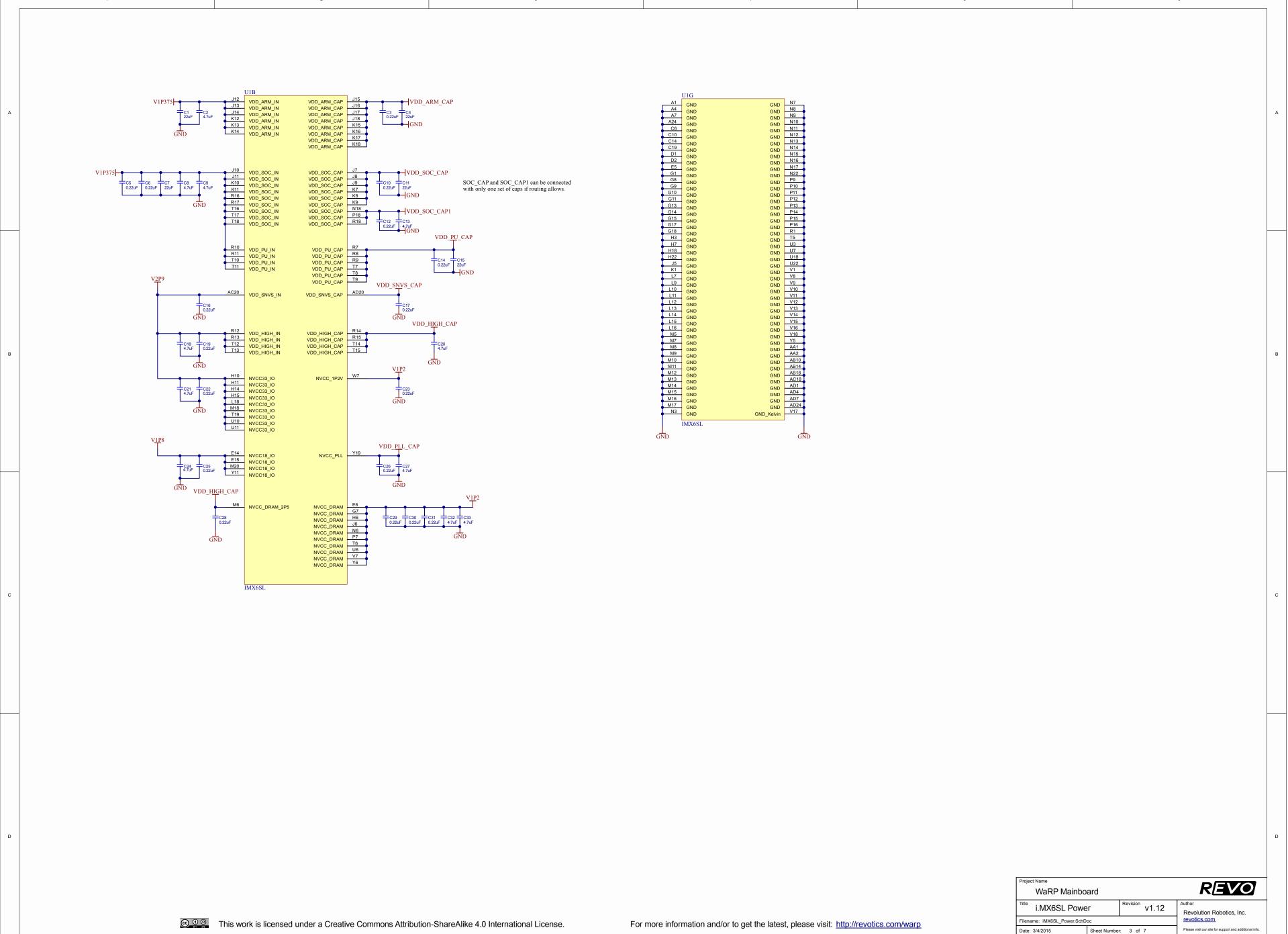
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WaRP Mainboard

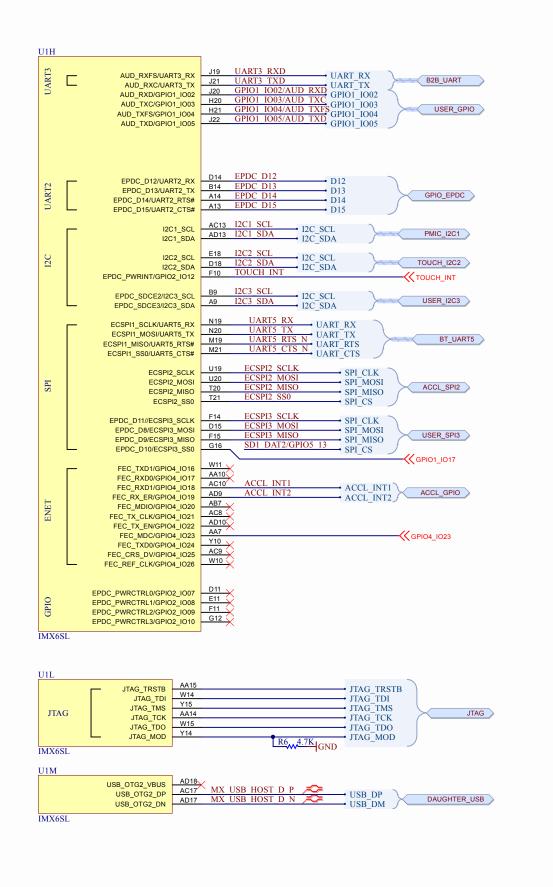
Title Overview Revision v1.12

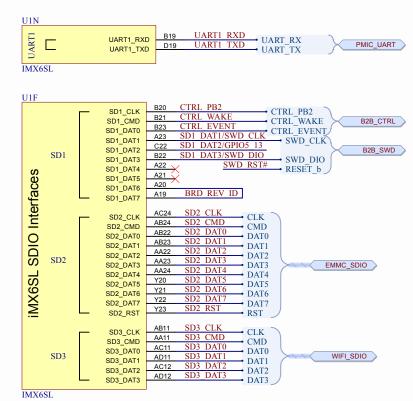
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Date: 3/4/2015 Sheet Number: 1 of 7

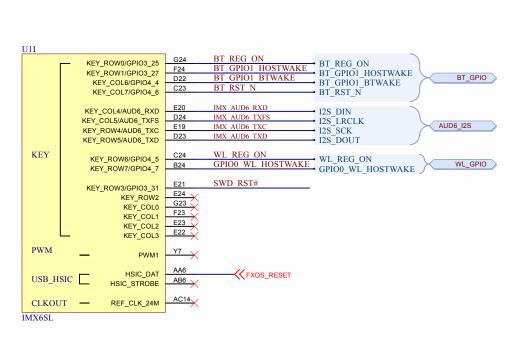
Author Revolution Robotics, Inc. revotics.com
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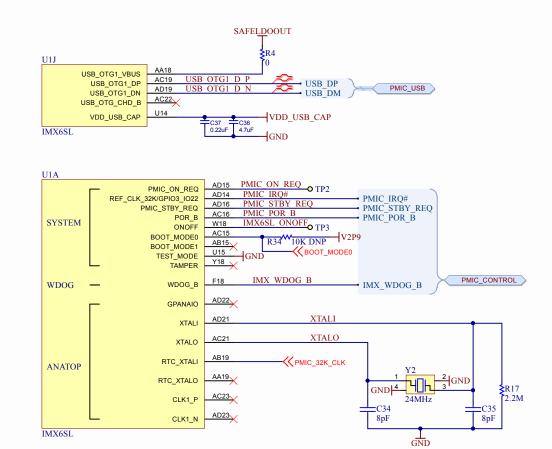








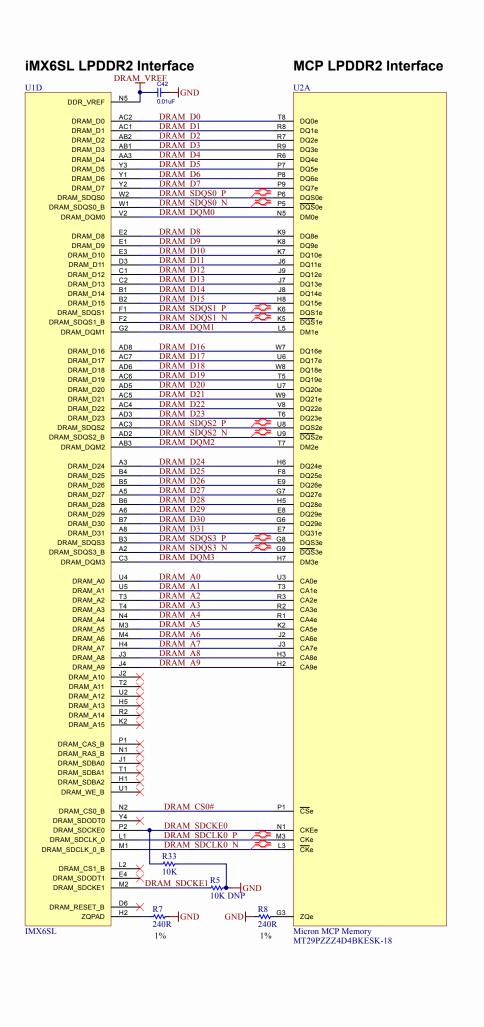


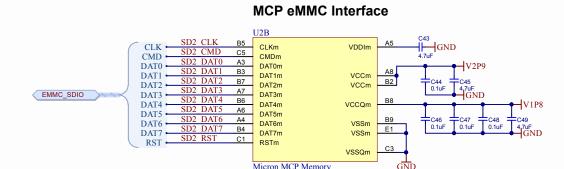


Project Name
WaRP Mainboard

Title
i.MX6SL SoC
Revision
Filename: iMX6SL_SoC.SchDoc
Date: 3/4/2015
Sheet Number: 4 of 7

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Revolution Robotics, Inc.
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Micron MCP Memory

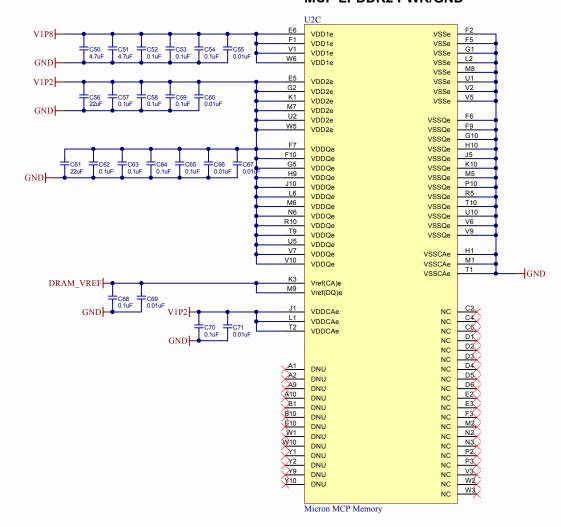
Can likely use only the i.MX6SL on-chip pull-ups

V1P8	R22		SD2 CMD
VIP	47K DNP	R23	SD2 DAT0
	R24	47K DNP	SD2 DAT1
	47K DNP	R25	SD2_DAT2
	R26	47K DNP	SD2_DAT3
	47K DNP	R27	SD2_DAT4
	R28	47K DNP	SD2 DAT5
	47K DNP	R29	SD2_DAT6
	R30	47K DNP	SD2_DAT7
	47K DNP		

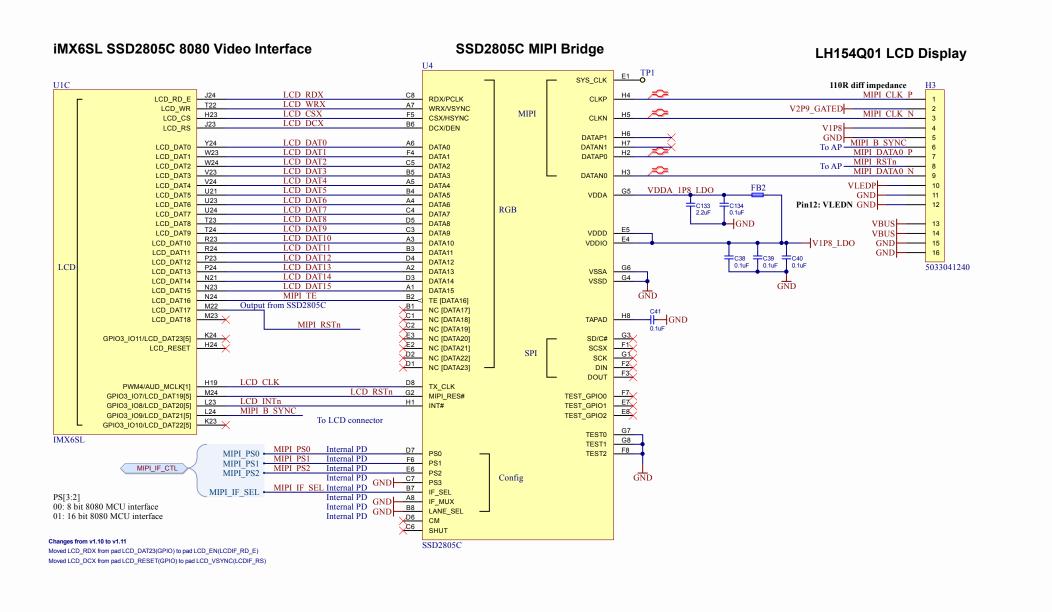
50K max pull-up recommended for 1.8V emmc interface.

V1P8	R31	SD2 RST
VIFO	R32 47K DNP	SD2 CLK
	47V DND	

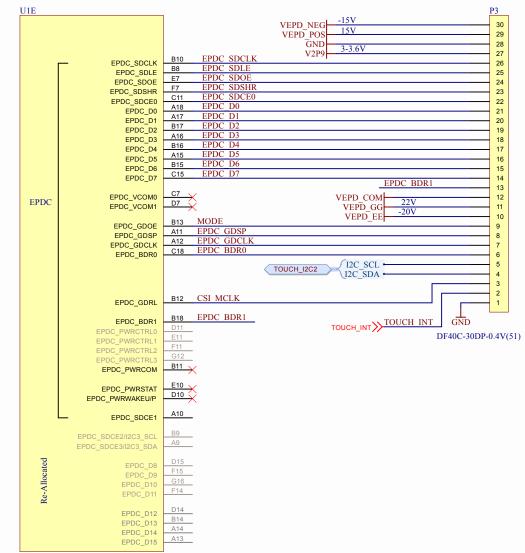
MCP LPDDR2 PWR/GND



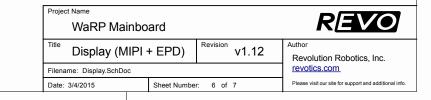
REVO WaRP Mainboard evision v1.12 Memory Revolution Robotics, Inc. revotics.com Filename: Memory.SchDoc Date: 3/4/2015 Sheet Number: 5 of 7



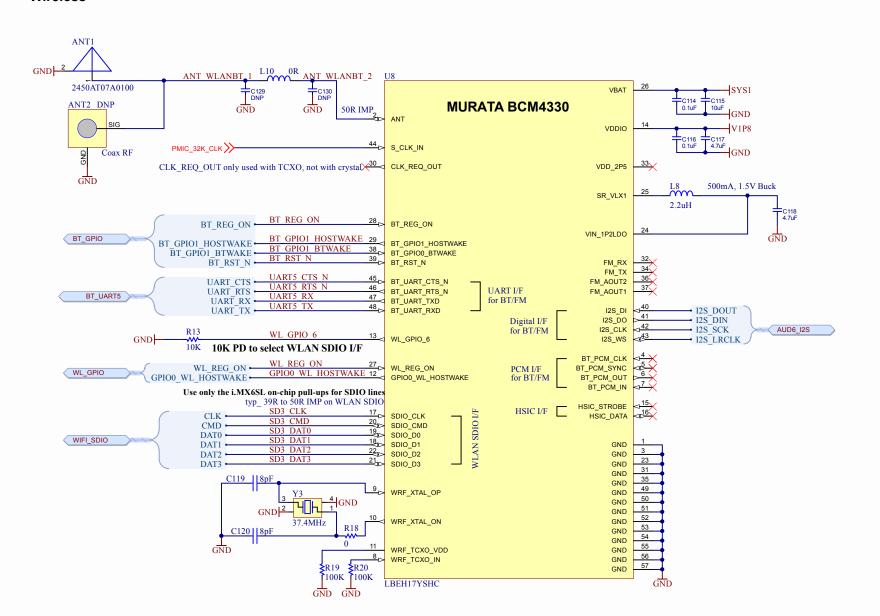
LH154Q01 LCD Touch Connector ET017QC1 EPDC



iMX6SL EPDC Interface





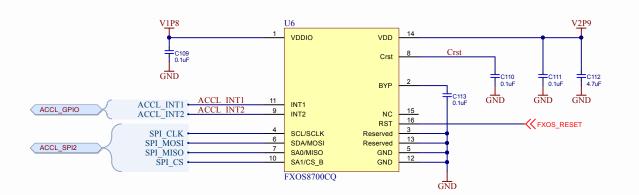


R18 Typical value listed as 0-330 dependent upon crystal.

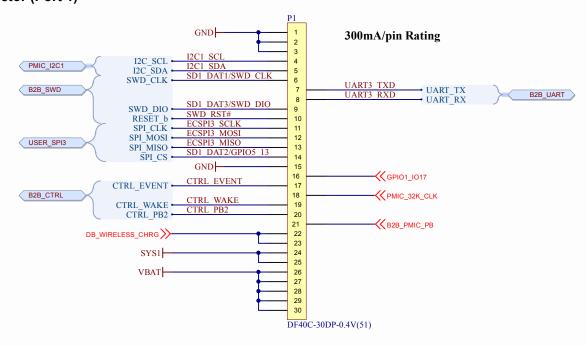
WLAN GPIO strapping options for WLAN I/F selection

Pin			Interface	
WL_GPIO_6	SDIO_D2	SDIO_D1	Interface	
PullDN			SDIO	
PullUP	PullDN		SPI	
PullUP	PullUP	PullDN	Normal HSIC	
PullUP	PullUP	PullUP	Bootloader-less HSIC	
Resistor size is 10kOhm or less for each setting				

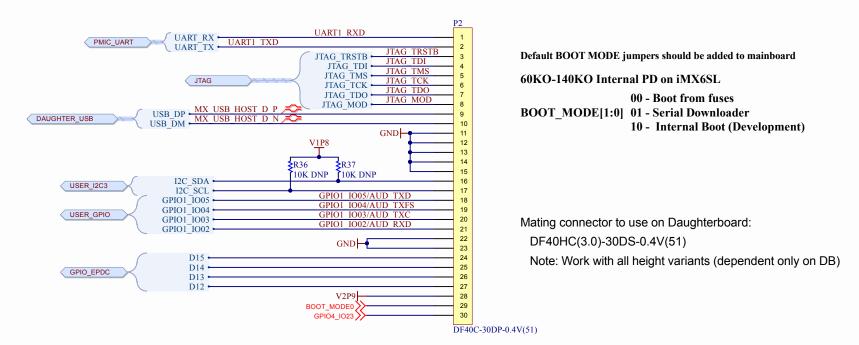
FXOS8700 Accelerometer



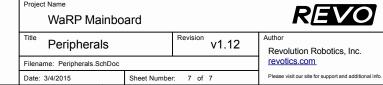
Daughterboard Connector (Port 1)



Mechanical/Debug Connector (Port 2)



See the Displays schematic page for the 3rd I/O connector (Port 3)



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5

Sileet Number. 1 of 1