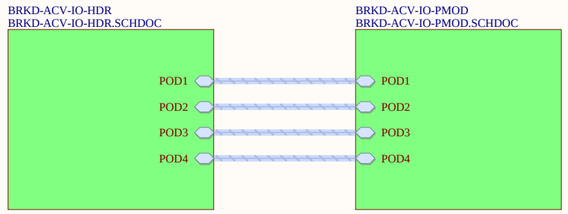
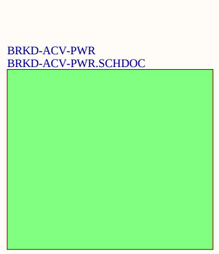




PCB

BRKD-ACV-PCB-20170316

ASSEMBLY

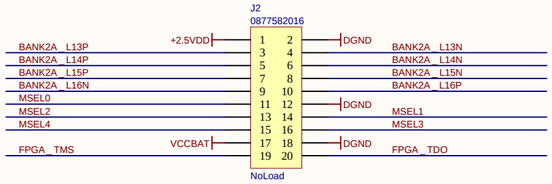
BRKD-ACV-A4-ASSY

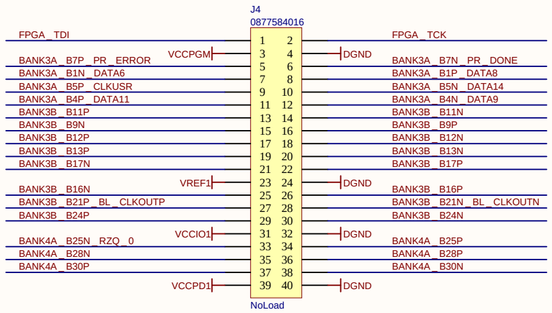
Opal Kelly Logo

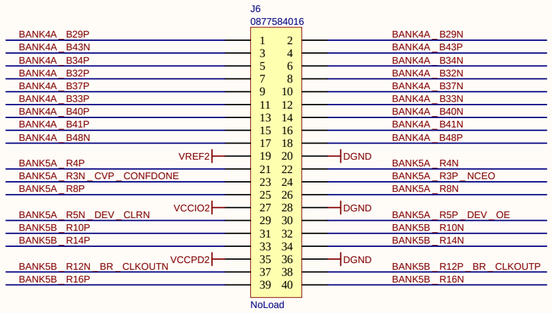
FID1 FID2 FID3 FID4

Title	***FOMD-ACV Breakout Board - Top***		Opal Kelly 13500 SW 72nd Ave Suite 120 http://www.opalkelly.com
Size: C	Number: xxx	Revision: 1	
Date: 3/16/2017	Time: 6:17:35 PM	Sheet 1 of 4	
File: C:\work\BreakoutBoards\BRKD-ACV-PCB\Top.SchDoc			

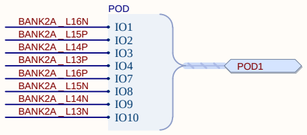
Expansion Headers

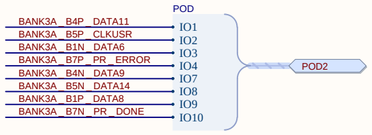


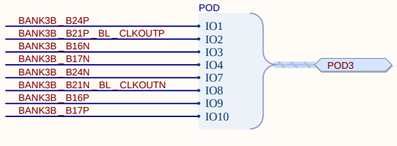


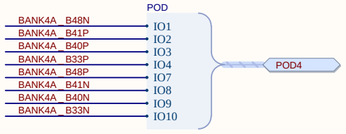


To POD Connectors

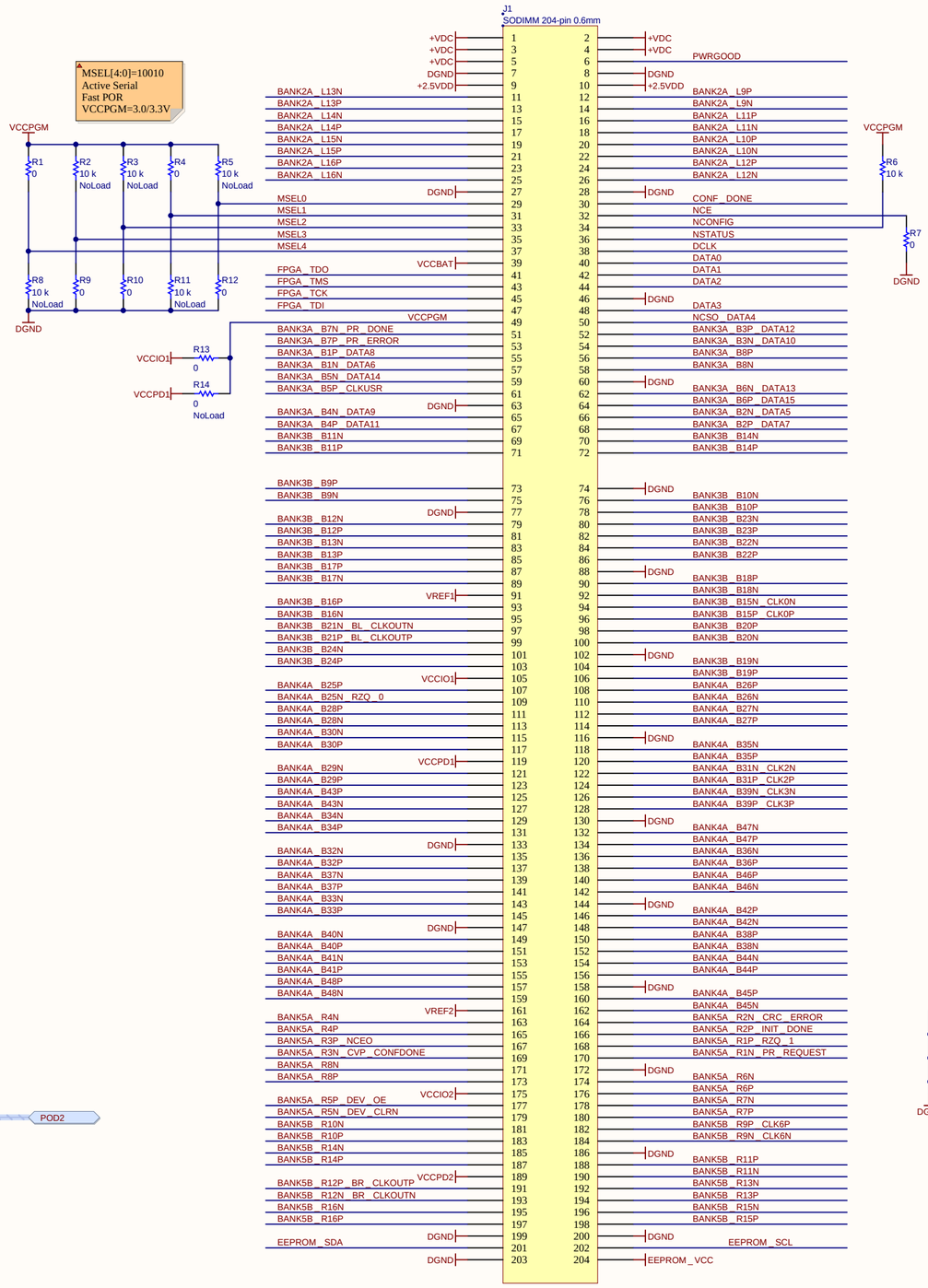




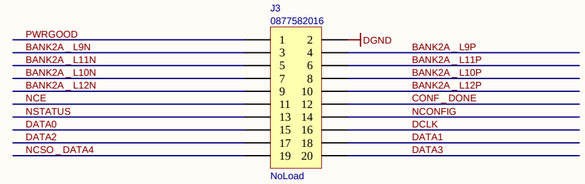


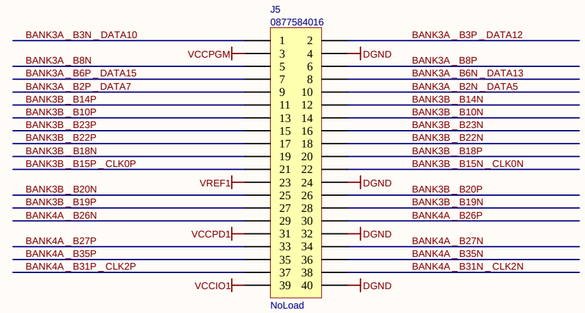


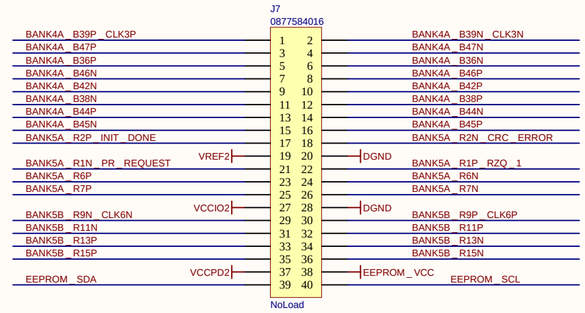
SO-DIMM Socket



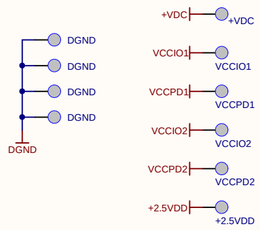
Expansion Headers



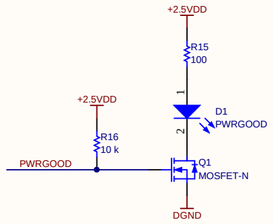




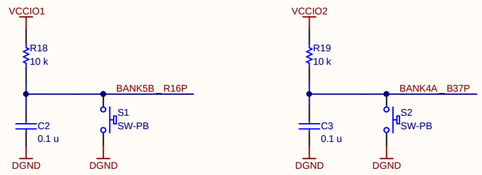
Test Points



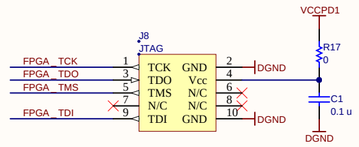
PWRGOOD LED



Pushbuttons



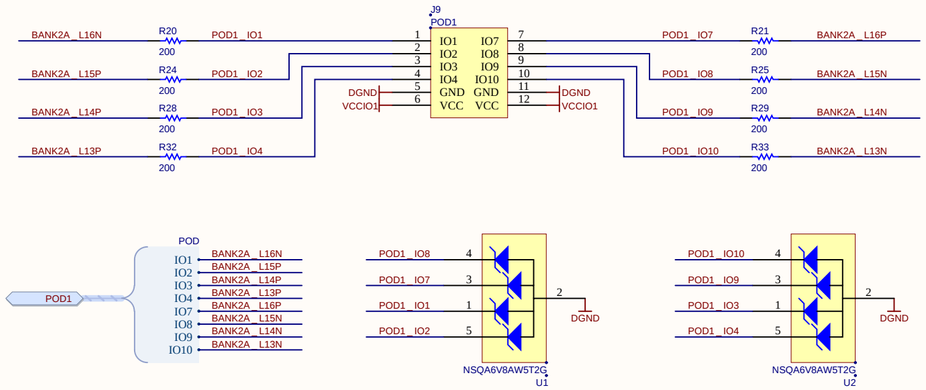
JTAG Connector



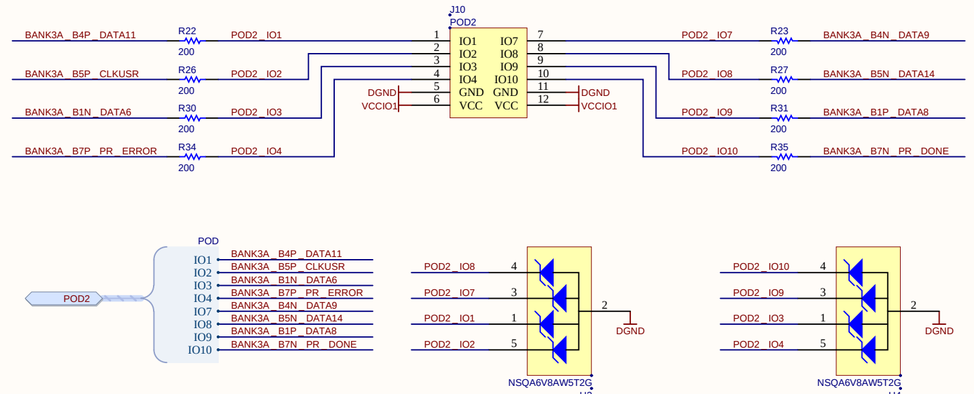
Title	*FOMD-ACV Breakout Board - Headers*		Opal Kelly 13500 SW 72nd Ave STE 100 http://www.opalkelly.com
Size: C	Number: 1	Revision: 1.0	
Date: 3/16/2017	Time: 6:17:35 PM	Sheet 2 of 4	
File: C:\work\BreakoutBoards\BRKD-ACV-PCB\BRKD-ACV-IO-HDR.SCHDOC			

Opal Kelly

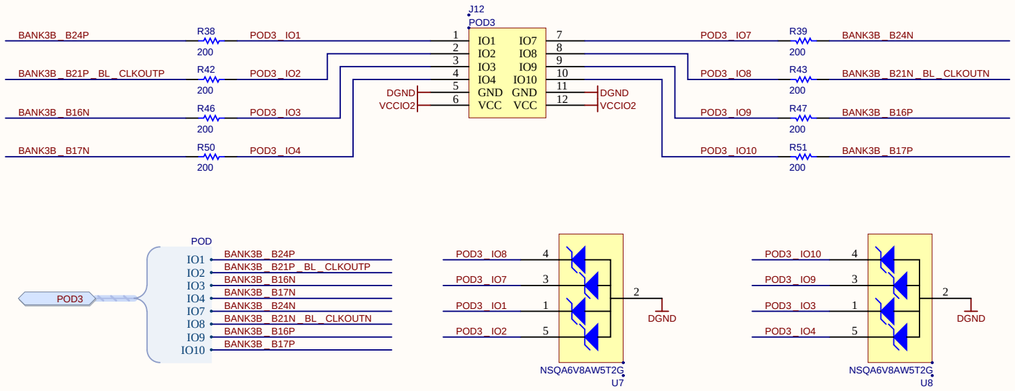
POD1 Connector



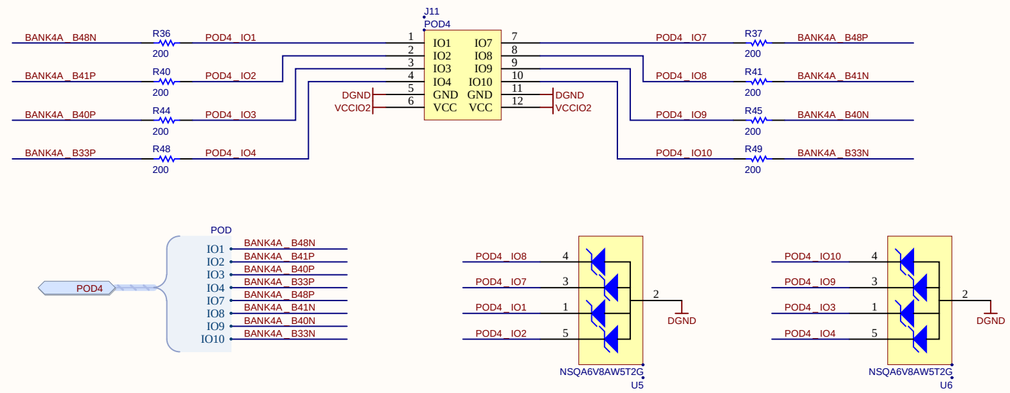
POD2 Connector



POD3 Connector

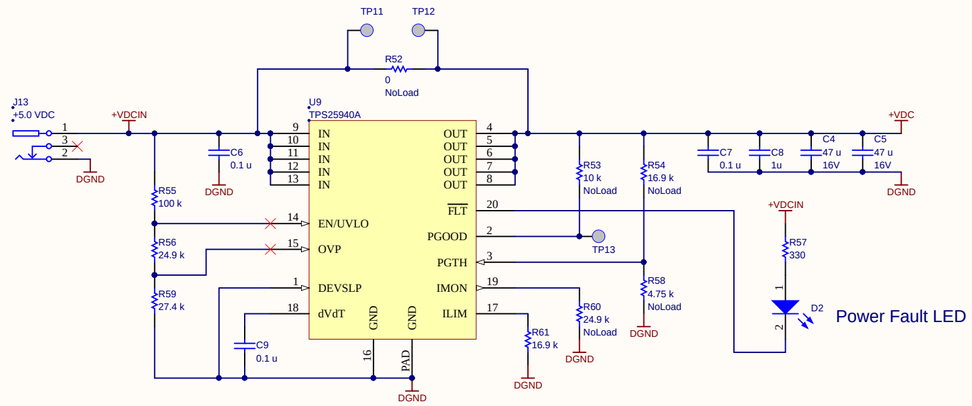


POD4 Connector



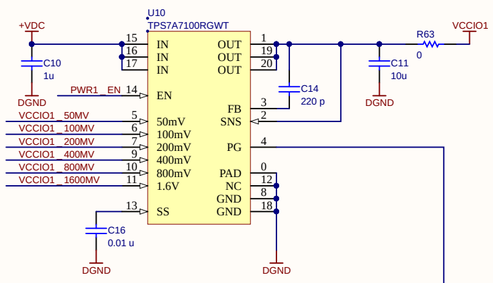
Title	*FOMD-ACV Breakout Board - PMOD*		Opal Kelly 13500 SW 72nd Ave STE 100 http://www.opalkelly.com
Size: C	Number: 1	Revision: 1.0	
Date: 3/16/2017	Time: 6:17:35 PM	Sheet 3 of 4	
File: C:\work\BreakoutBoards\BRKD-ACV-PCB\BRKD-ACV-IO-PMOD.SCHDOC			

Overvoltage Protection

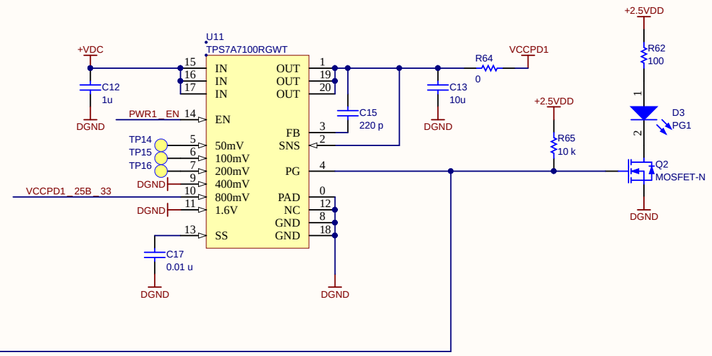


Current limit = 5.3 A
OVP = 5.5 V rising, 5.1 V falling
UVLO = 2.9 V rising, 2.7 V falling

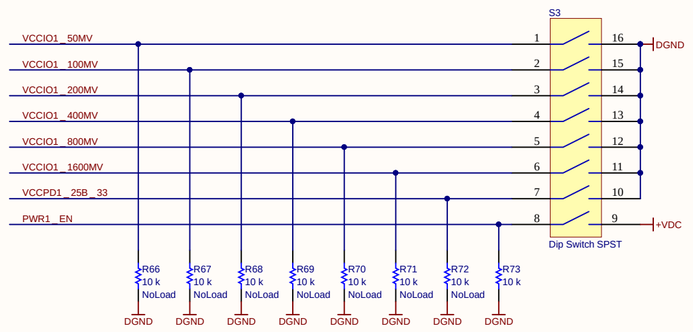
VCCIO1 LDO



VCCPD1 LDO

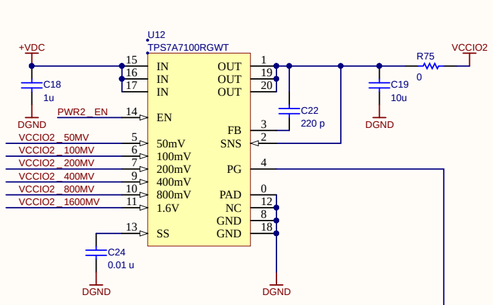


PWR 1 Config

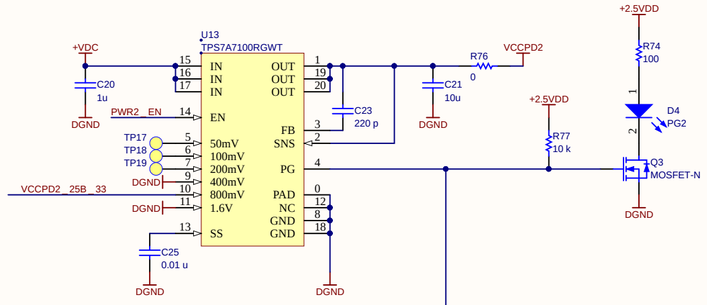


The TPS7A7100 is a user-configurable LDO where
Vout = 0.5 V + ports tied high

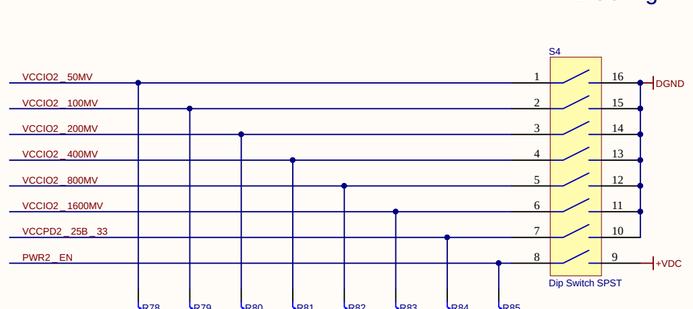
VCCIO2 LDO



VCCPD2 LDO



PWR 2 Config



Title	*FOMD-ACV Breakout Board - Power*		Opal Kelly 13500 SW 72nd Ave STE 100 http://www.opalkelly.com
Size: C	Number: 1	Revision: 1.0	
Date: 3/16/2017	Time: 6:17:35 PM	Sheet 4 of 4	
File: C:\work\BreakoutBoards\BRKD-ACV-PCB\BRKD-ACV-PWR.SCHDOC			