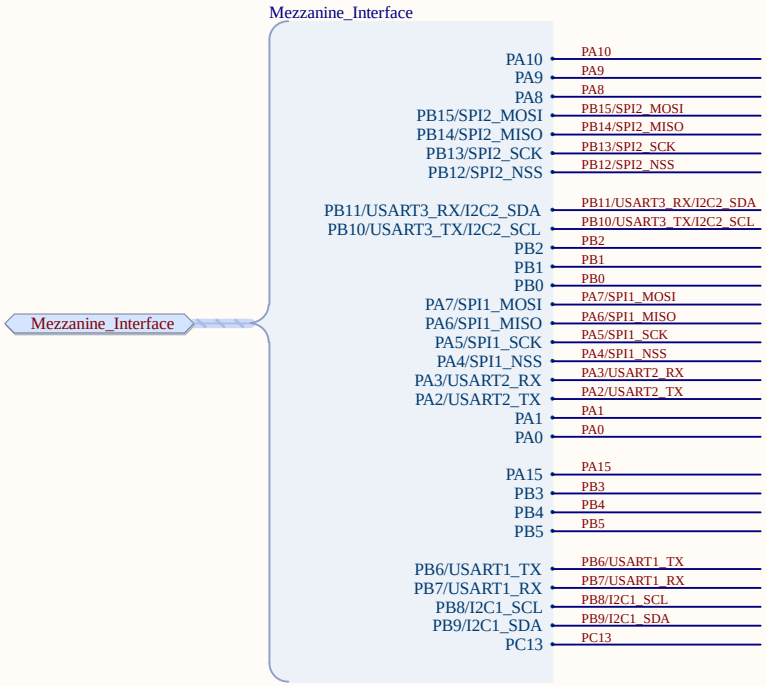
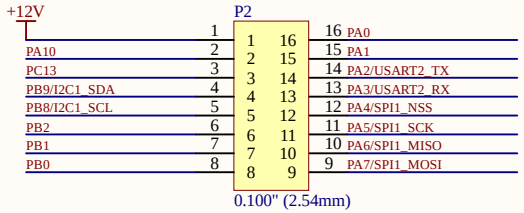
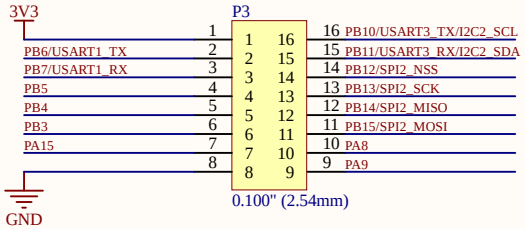
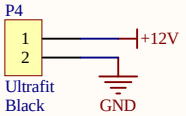
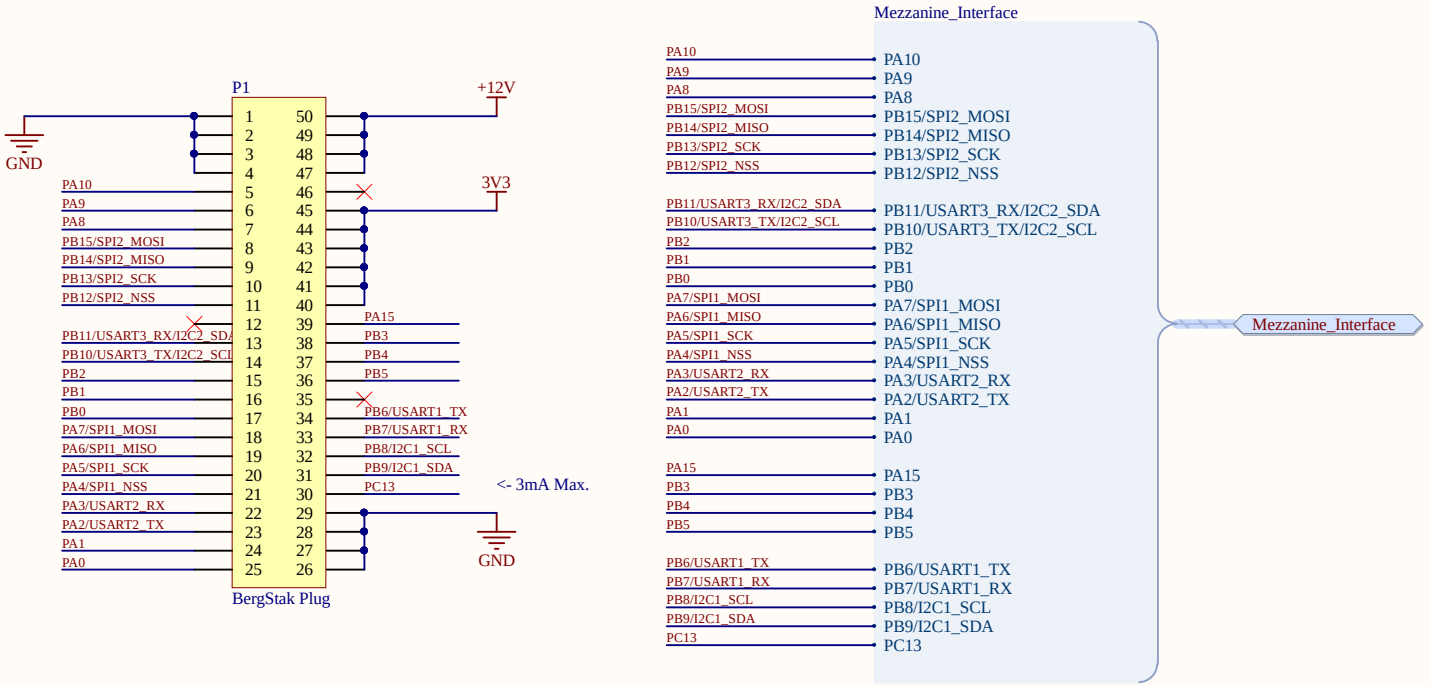


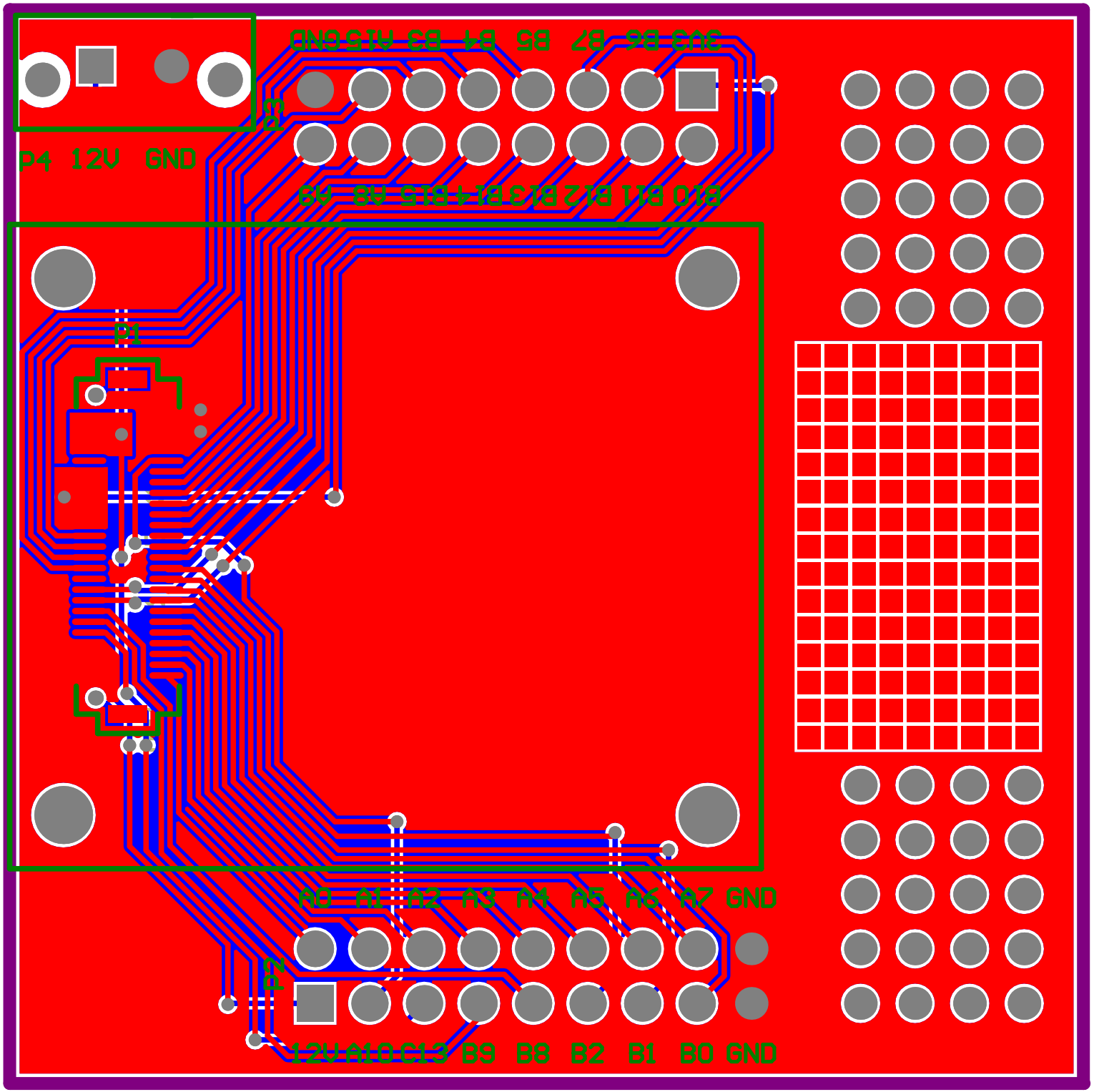




| | | |
|---|---|---|
| Project: ***MSXII_Controller_Breakout.PrjPcb*** | | MIDNIGHT SUN |
| Title: **Controller Board Breakout** | | |
| Project Lead: Kevin Chen, Taiping Li, Titus Chow | | University of Waterloo<br>200 University Ave W<br>Waterloo, ON, Canada<br>N2L 3E9 |
| Size: Letter | Revision: 3.0 | |
| Date: 7/19/2017 | Sheet 1 of 2 | Website: www.uwmidsun.com |




| | | |
|---|---|---|
| Project: ***MSXII_Controller_Breakout.PrjPcb*** | | MIDNIGHT SUN |
| Title: **Controller Board Interface** | | |
| Project Lead: Kevin Chen, Taiping Li, Titus Chow | | University of Waterloo<br>200 University Ave W<br>Waterloo, ON, Canada<br>N2L 3E9 |
| Size: Letter | Revision: 3.0 | |
| Date: 7/19/2017 | Sheet 2 of 2 | Website: www.uwmidsun.com |


P4 12V GND
P1
P1
A0 A1 A2 A3 A4 A5 A6 A7 GND
12V A10 C13 B9 B8 B2 B1 B0 GND

# Bill of Materials

**Bill of Materials For Project [MSXII_Controller_Breakout.PrjPcb] (No PCB Document Selected)**

**Source Data From:** MSXII_Controller_Breakout.PrjPcb
**Project:** MSXII_Controller_Breakout.PrjPcb
**Variant:** None

Creation Date: 7/19/2017 8:17:40 PM
Print Date: 19-Jul-17 8:17:42 PM

Production Quantity: 1
Currency <none>

| Footprint | Comment | LibRef | Designator | Description | Quantity | #Column Nam | #Column Name Error:Sup | #Column Name Error:S | #Column Name Error:S | #Column Name Error:S | #Column Name Error:M | #Column Name Error:Manufacturer Part Num |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONN, Bergstak 50 Pos Plug | CONN 50POS Bergstak Plug 0.02" | CONN 50POS Bergstak Plug 0.02" | P1 | 50 Position Connector Plug, Outer Shroud Contacts Surface Mount Gold | 1 | | | | | | | |
| CONN, 16POS 0.100" Header | 16POS | CONN 16POS HEADR MALE 0.1" | P2, P3 | CONN HEADER .100" DUAL STR 16POS | 2 | | | | | | | |
| CONN, 2POS ULTRA-FIT | CONN 2POS ULTRA-FIT 0.138" | CONN 2POS ULTRA-FIT 0.138" | P4 | 2 Positions Header, Shrouded Connector 0.138" (3.50mm) Through Hole Gold | 1 | | | | | | | |
| | | | | | 4 | | | | | $ - | | |

**Approved** **Notes**