

# UG425: Si3474 EVB User's Guide

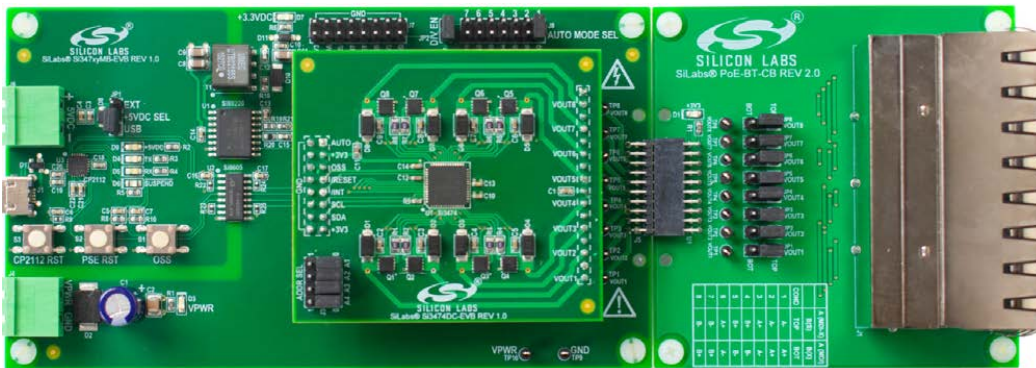
## Si3474 Quad 90 W Ethernet Port EVB

The Si3474 is suitable for use in either a four-port 802.3bt PSE, eight-port 802.at PSE, or a mix of 802.3bt and 802.3at ports. The Si3474 achieves this by having two separate quads each powering four 2-pair ports. Each quad can either be configured for two 802.3bt 4-pair ports or for four 802.3at 2-pair ports. The Si3474-EVB includes an RJ45 interface board called the POE\_BT\_CB to allow evaluation of the Si3474 in a mixed 802.3bt and 802.3at system.

The Si3474-EVB can power up PDs without any software installation needed. The Si3474-EVB can be jumper-selected (J8) to automatically configure the Si3474 Port Power Allocation. Note that when using the Si3474 in AUTO mode, the ports must either all be in 802.3bt mode or 802.3at mode. To use the Si3474 in a mixed system, it will be necessary to access the Si3474 registers through I<sup>2</sup>C. The Si3474-EVB allows access to the Si3474 registers through a Silicon Labs CP2112 USB to I<sup>2</sup>C bridge. A Python interface is provided to allow evaluation through Windows PC, Linux or MacOS computers.

### KEY FEATURES

- IEEE 802.3bt compliant
- Up to Four 802.3bt Ports or Eight 802.3at Ports
- AUTO Mode Jumpers
  - No software needed for basic operation
  - Configurable Max Port Power
- Available Direct I<sup>2</sup>C Access to Si3474 Registers
  - USB Interface using Silicon Labs CP2112 USB to I<sup>2</sup>C Bridge
- Python interface to Windows, Linux or MacOS



| Parameter               | Condition                | Specifications               |
|-------------------------|--------------------------|------------------------------|
| PSE Input Voltage Range | Connector J4             | 52 to 57 V                   |
| PoE Type/Class          | Type 4, Class 8          | IEEE 802.3bt                 |
| Daughtercard Size       |                          | 2.5 x 2.5 inches, 61 x 61 mm |
| Baseboard Size          |                          | 3 x 5.35 inches, 76 x 136 mm |
| EVB Height              | Does not include headers | 1.2 inch, 30 mm              |

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# 1. Kit Description and Powering Up the Si3474 EVB

The Si3474 EVB consists of a four-layer daughter card, a four-layer baseboard and an RJ45 connector board.

The daughter card includes the Si3474, FETs and the J3 jumper. The purpose of the J3 jumper is to configure the I<sup>2</sup>C Address for which the Si3474 responds to. Note that each Si3474 device responds to two I<sup>2</sup>C Addresses because there are two quads in every Si3474 device.

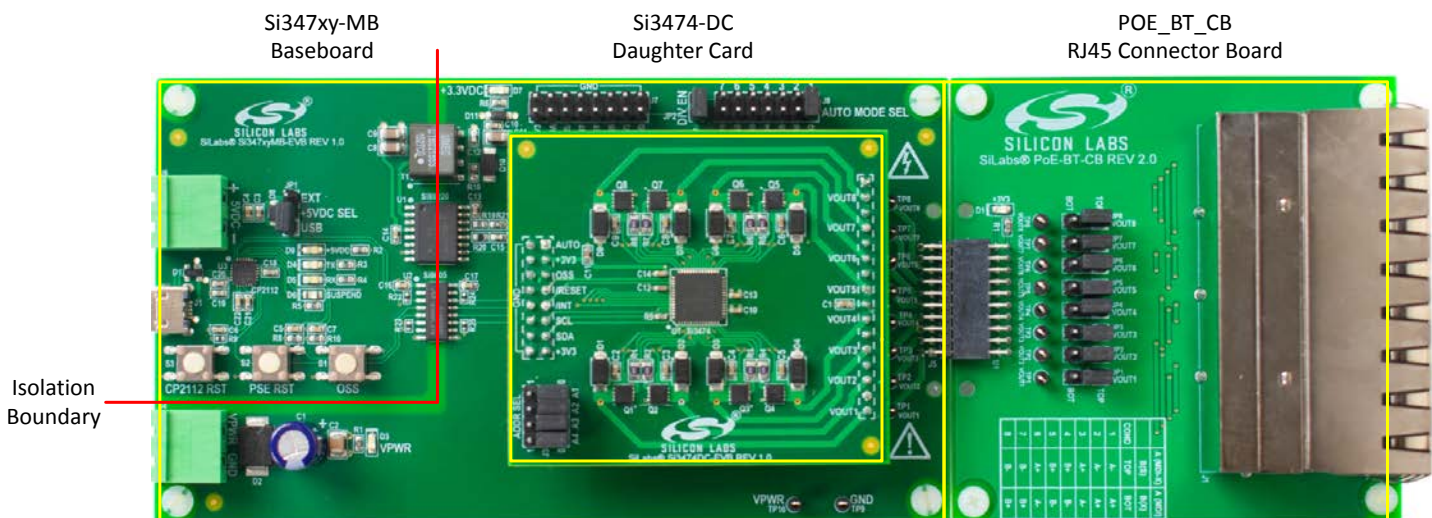


Figure 1.1. Si3474-EVB Baseboard, Daughter Card, and RJ45 Connector Board

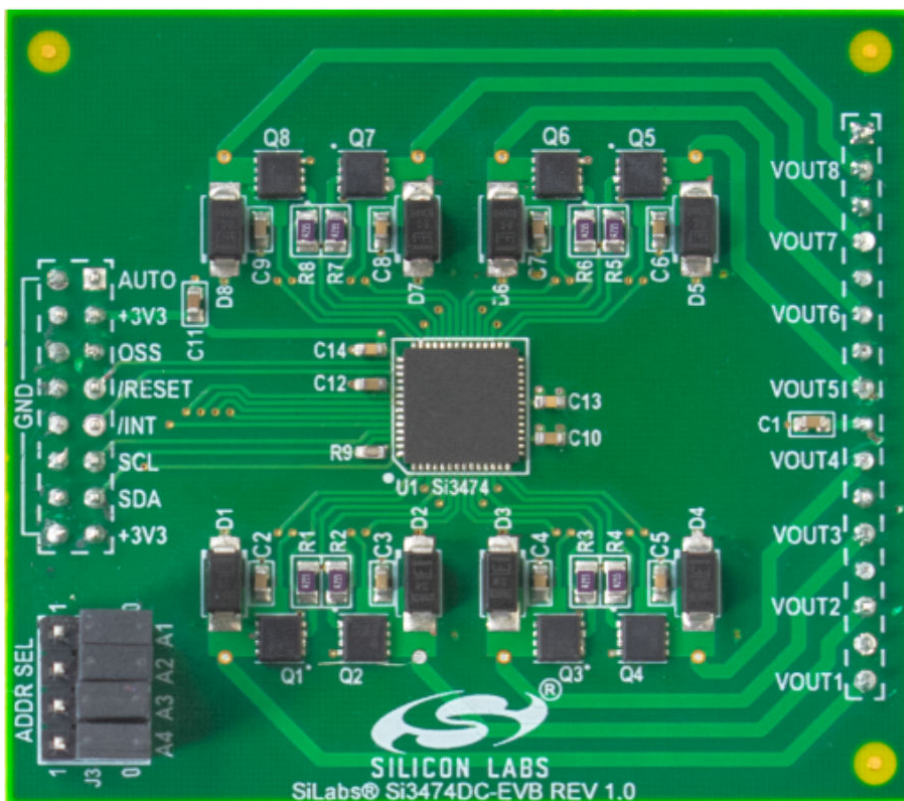


Figure 1.2. Si3474-EVB Daughter Card

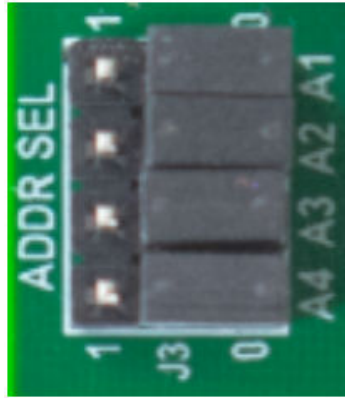


Figure 1.3. J3 Configuration Header

Table 1.1. J3 I<sup>2</sup>C Address Selection Table

| A4 | A3 | A2 | A1 | Quad 0 I <sup>2</sup> C Address | Quad 1 I <sup>2</sup> C Address |
|----|----|----|----|---------------------------------|---------------------------------|
| 0  | 0  | 0  | 0  | 0x20                            | 0x21                            |
| 0  | 0  | 0  | 1  | 0x22                            | 0x23                            |
| 0  | 0  | 1  | 0  | 0x24                            | 0x25                            |
| 0  | 0  | 1  | 1  | 0x26                            | 0x27                            |
| 0  | 1  | 0  | 0  | 0x28                            | 0x29                            |
| 0  | 1  | 0  | 1  | 0x2A                            | 0x2B                            |
| 0  | 1  | 1  | 0  | 0x2C                            | 0x2D                            |
| 0  | 1  | 1  | 1  | 0x2E                            | 0x2F                            |
| 1  | 0  | 0  | 0  | 0x30                            | 0x31                            |
| 1  | 0  | 0  | 1  | 0x32                            | 0x33                            |
| 1  | 0  | 1  | 0  | 0x34                            | 0x35                            |
| 1  | 0  | 1  | 1  | 0x36                            | 0x37                            |
| 1  | 1  | 0  | 0  | 0x38                            | 0x39                            |
| 1  | 1  | 0  | 1  | 0x3A                            | 0x3B                            |
| 1  | 1  | 1  | 0  | 0x3C                            | 0x3D                            |
| 1  | 1  | 1  | 1  | 0x3E                            | 0x3F                            |

The Si3474 EVB base board consists of:

- Status LEDs
- Terminal Blocks for Power
- USB Connector
- AUTO Mode Selection Jumpers

The RJ45 connectors are on a separate board called the POE\_BT\_CB. The POE\_BT\_CB also has some jumpers in order to allow configuration of the RJ45 for either 802.3bt 4-pair port usage or for 802.3at 2-pair port usage.

It is easier to describe the use cases for the USB Connector, Terminal Blocks, AUTO Mode Selection Jumpers and the POE\_BT\_CB jumper connections together.

Please refer to the appendix if you have PoE-BT-CB Rev 1.0 or are not sure which revision you have. The following figure for PoE-BT-CB Rev 2.0 shows the use case where the Si3474 is used as an 802.3at PSE, without an I<sup>2</sup>C Host. The JP2 AUTO MODE SEL in this case can be set to either Position 7 or Position 6. The corresponding selection jumpers on the POE\_BT\_CB will need to be set in an alternating fashion so that the eight 802.3at ports can drive the RJ45 jacks as shown. Note that the VPWR polarity of the top-row RJ45 jacks have an opposite polarity relative to the ports on the bottom-row RJ45. Two power supplies are needed for this configuration. The +54 V provides power to PDs as well as to the Si3474 VPWR. The +5 V supply is used to supply power to the Si3474 VDD (albeit indirectly through isolation)

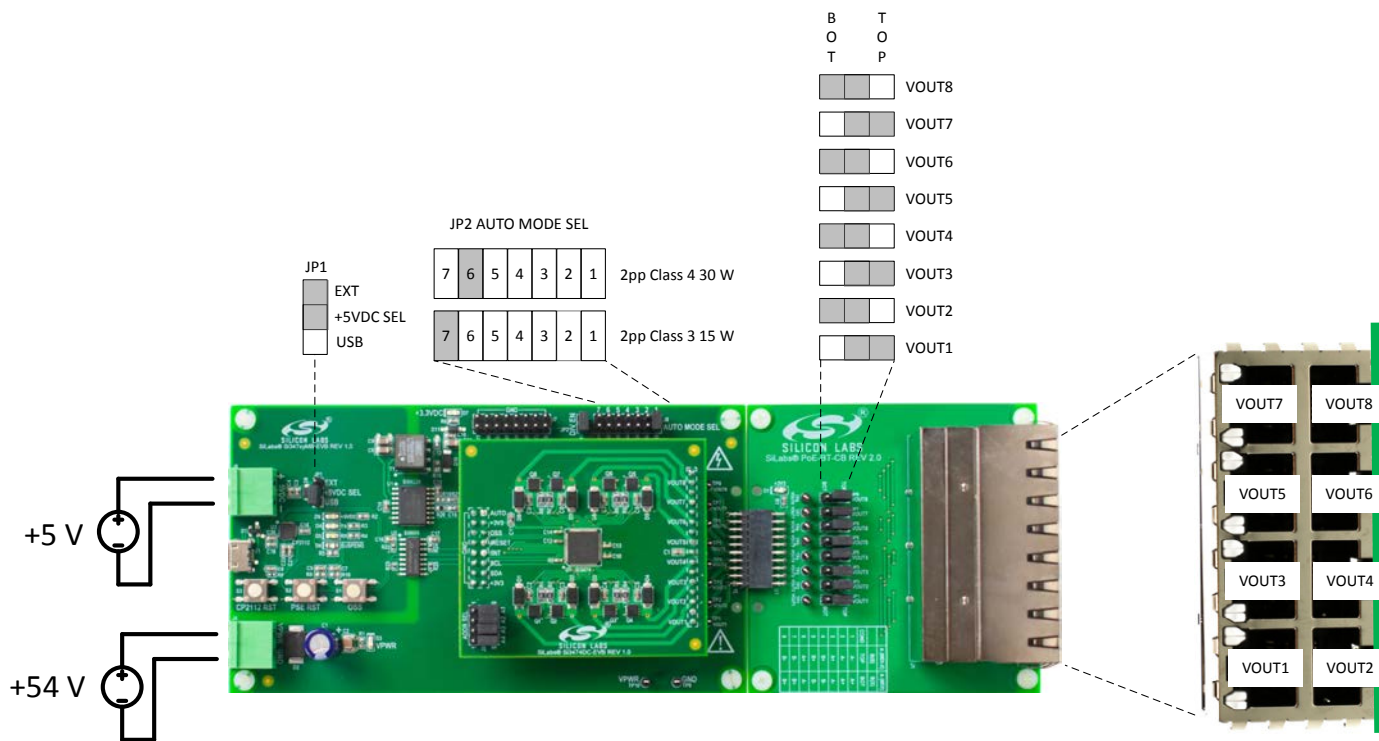


Figure 1.4. No I<sup>2</sup>C Host, Eight 802.3at 2-Pair Ports

The figure below shows the use case where the Si3474 is used as an 802.3bt PSE without an I<sup>2</sup>C Host. The JP2 AUTO MODE SEL in this case can be set to either Position 1, 2, 3, 4, or Position 5. The corresponding selection jumpers on the POE\_BT\_CB will need to be set to all "Top" positions. Four of the RJ45 jacks will be active while the other four RJ45 jacks are not connected.

Note that it is also possible to configure the jumpers to all "BOT" instead of all "TOP" (then use the bottom RJ45 jacks). When using the bottom RJ45s, the VPWR polarity will be inverted relative to when using the top RJ45 jacks. Two power supplies are needed for this configuration. The +54 V provides power to PDs as well as to the Si3474 VPWR. The +5 V supply is used to supply power to the Si3474 VDD (albeit indirectly through isolation).



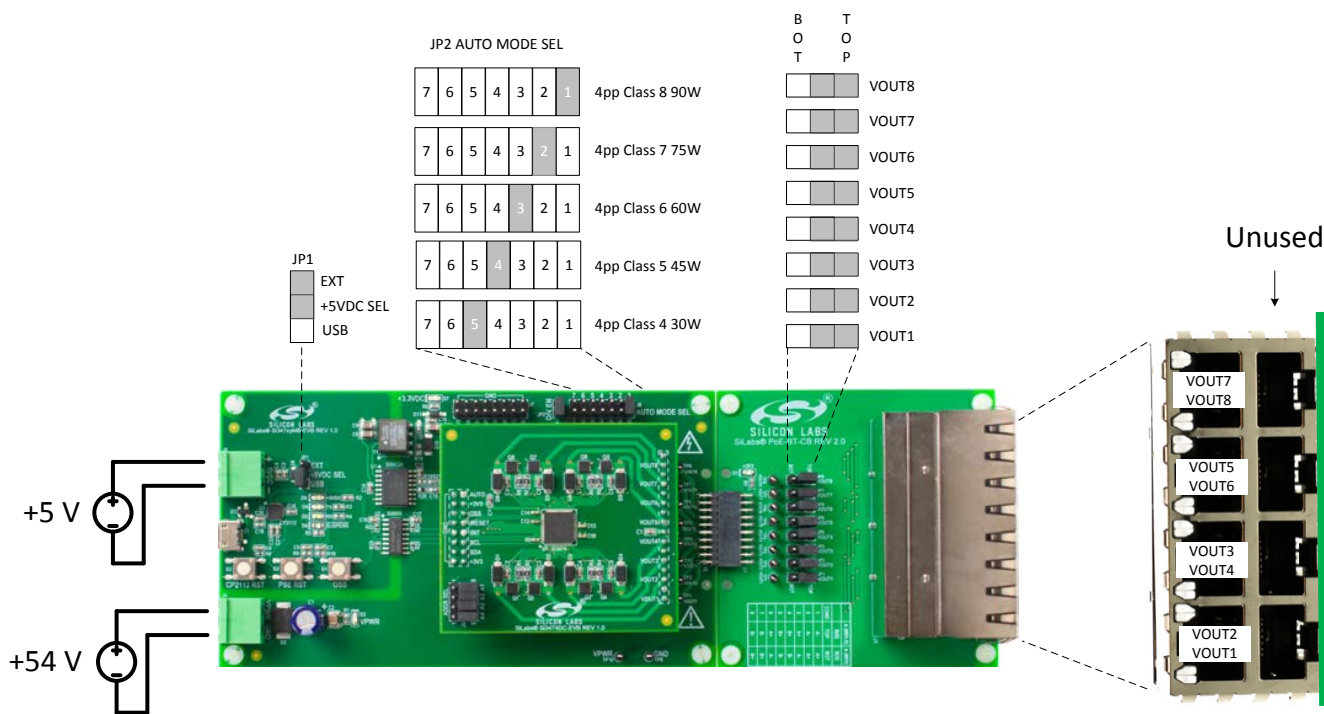


Figure 1.5. No I<sup>2</sup>C Host, Four 802.3bt 4-Pair Ports

The following figure shows the use case where the Si3474 is with an I<sup>2</sup>C Host. In this case, all JP2 AUTO MODE SEL jumpers are removed to indicate a Hosted I<sup>2</sup>C operation mode. The selection jumpers on the POE\_BT\_CB will need to be set up, depending on the expected programming of bits 4 and 7 of Register 0x29 on both quads. One power supply is needed for this configuration. The +54 V provides power to PDs as well as to the Si3474 VPWR. The JP1 jumper is placed so that the +5 V supply is derived from USB. The 5 V USB rail supplies power to the Si3474 VDD (albeit indirectly through isolation).

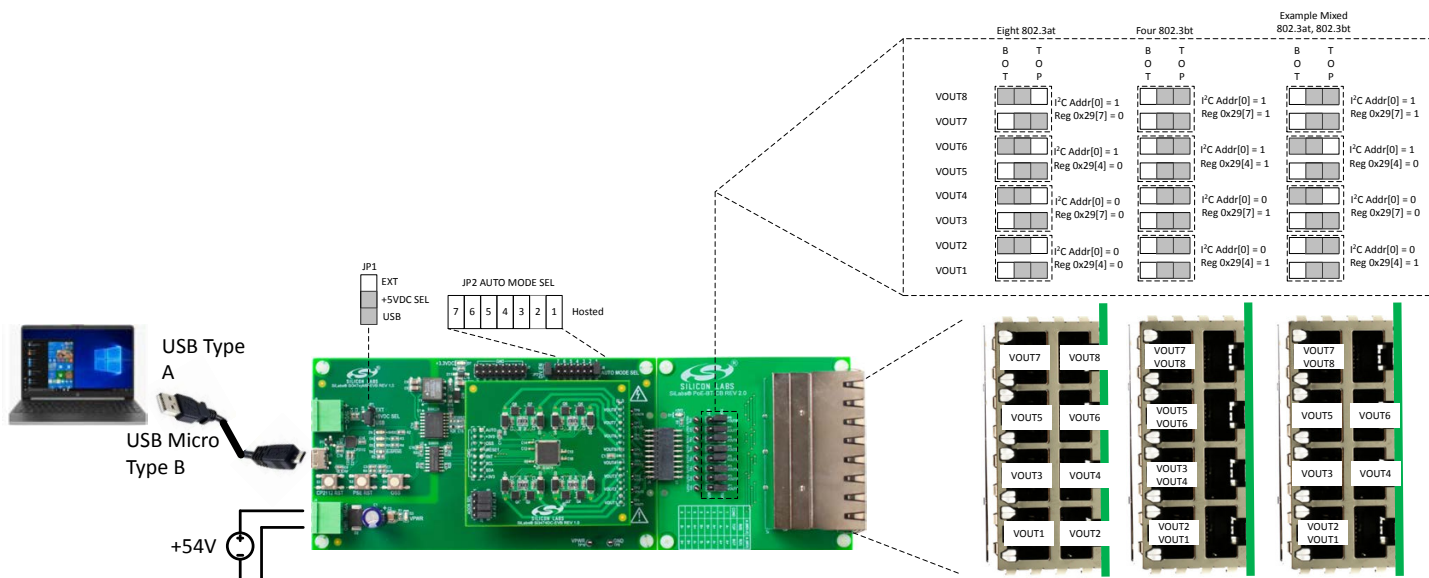


Figure 1.6. I<sup>2</sup>C Hosted

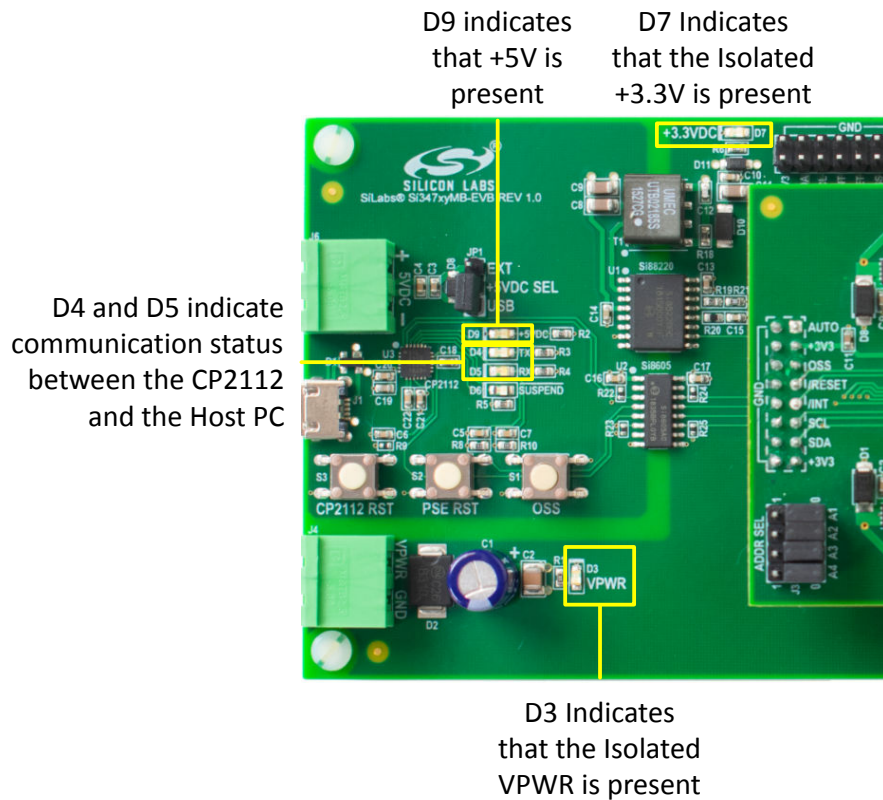


Figure 1.7. Status LEDs

S2 Asserts the Si3474 RESETb pin for as long as the button is pressed



S3 Resets the CP2112 and will lead to USB Reenumeration

S1 Asserts the Si3474 OSS pin for as long as the button is pressed

Figure 1.8. Buttons

## 2. Software Drivers

The Si3474-EVB has a USB port, allowing it to communicate with computer host running Windows, Linux or MacOS. The installation guide, documentation and software are available through the following download site.

Please go to [www.silabs.com/start-poe](http://www.silabs.com/start-poe) and select the Si3474-KIT link.



### 3. Si3474 Baseboard, Daughter Board and POE\_BT\_CB Board Schematics

Silicon Labs will provide a free schematic and PCB layout review. Visit [www.siliconlabs.com/support](http://www.siliconlabs.com/support) to submit a support request for the review.

#### 3.1 Motherboard Schematics

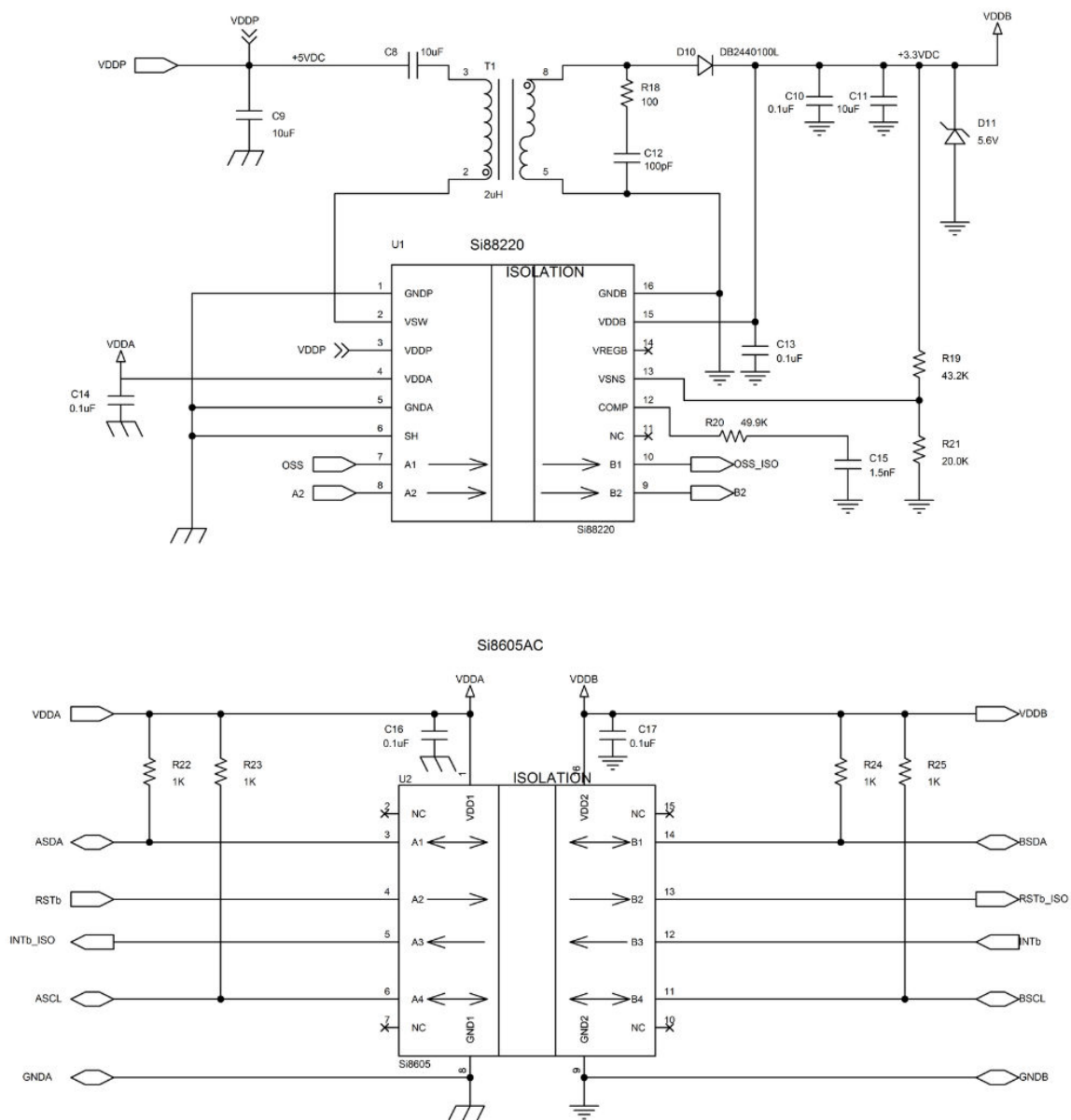


Figure 3.1. Motherboard Isolations

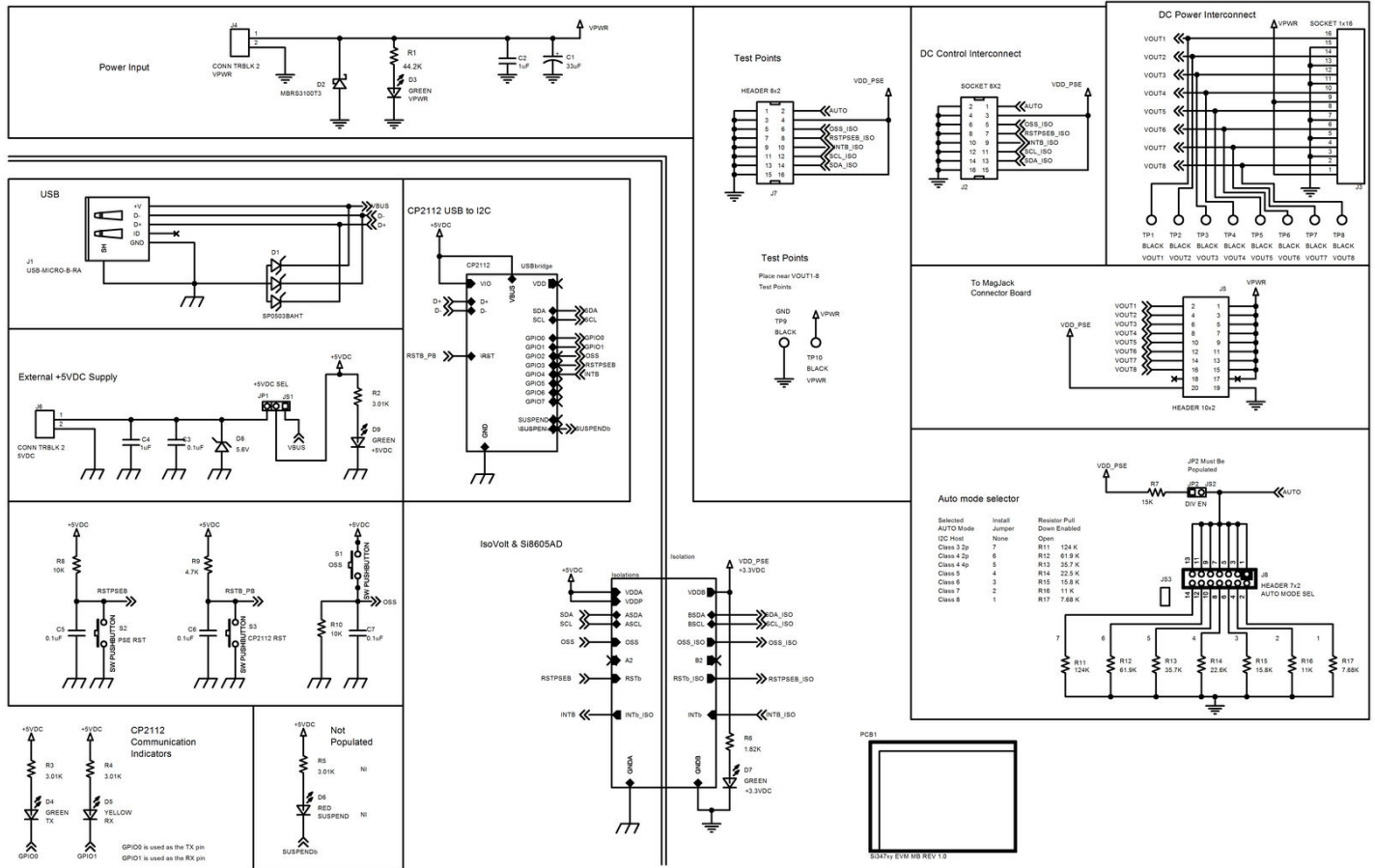


Figure 3.2. Motherboard Top

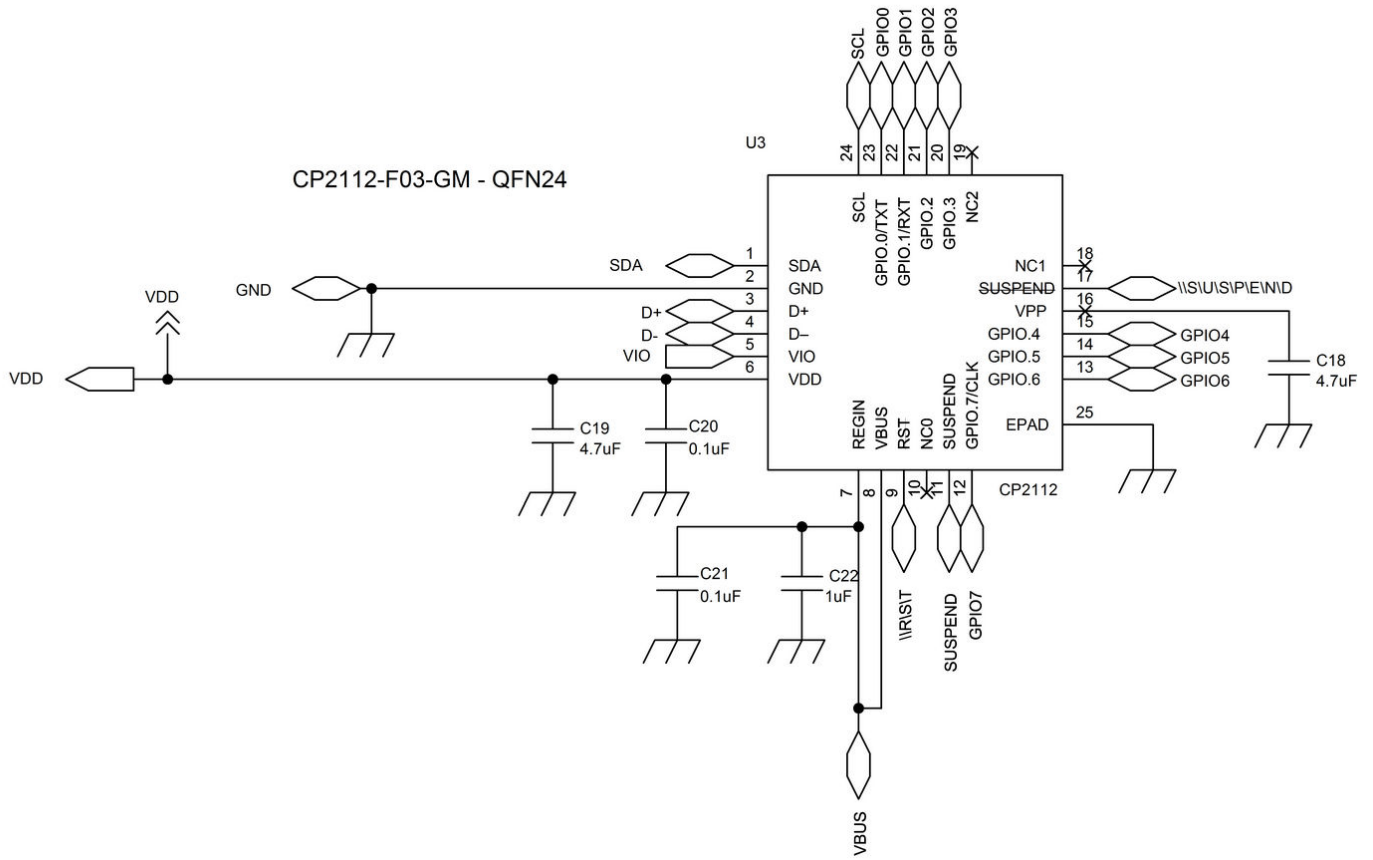


Figure 3.3. Motherboard USB Bridge

### 3.2 Daughtercard Schematics

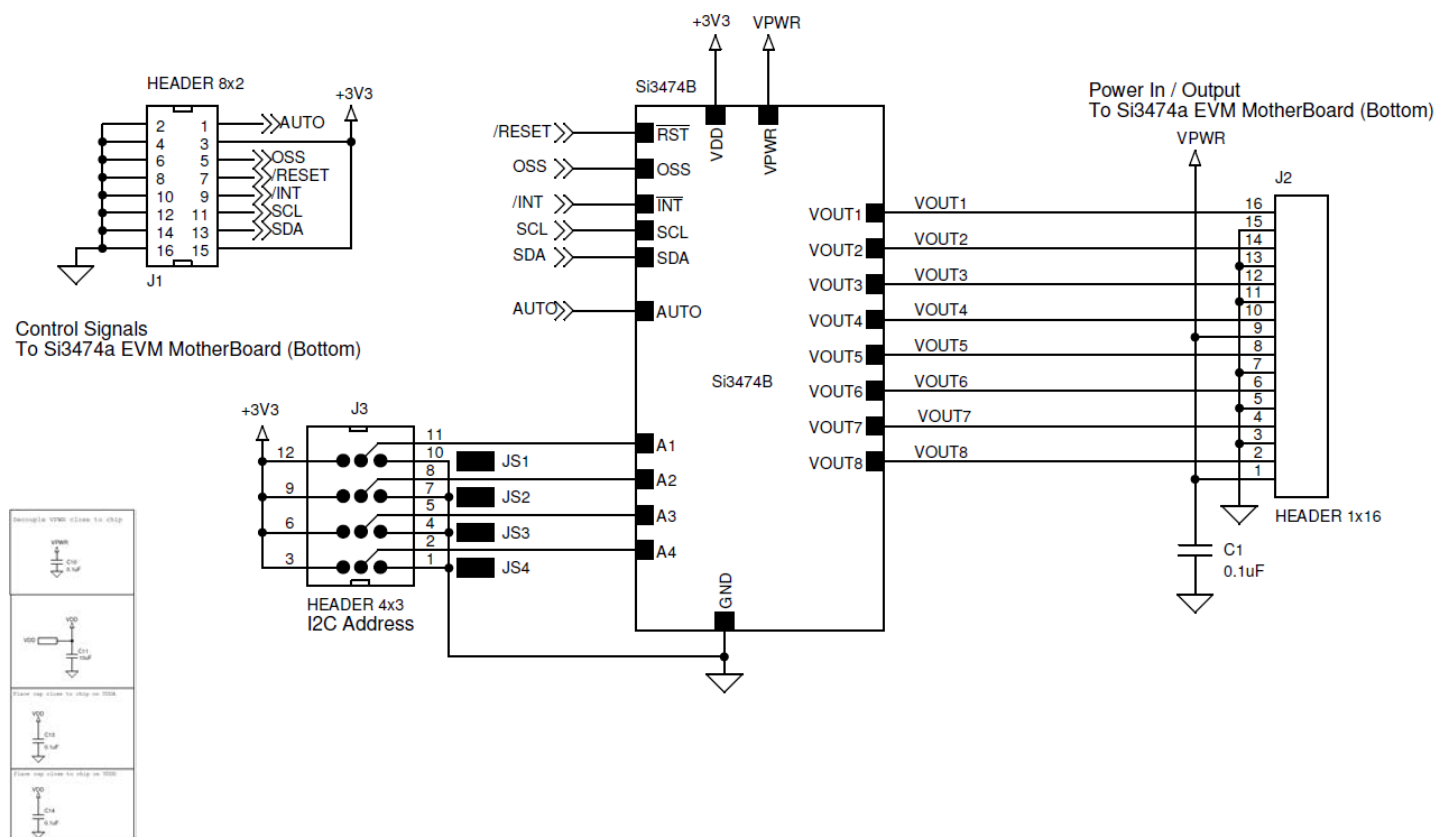


Figure 3.4. DC Schematic 1

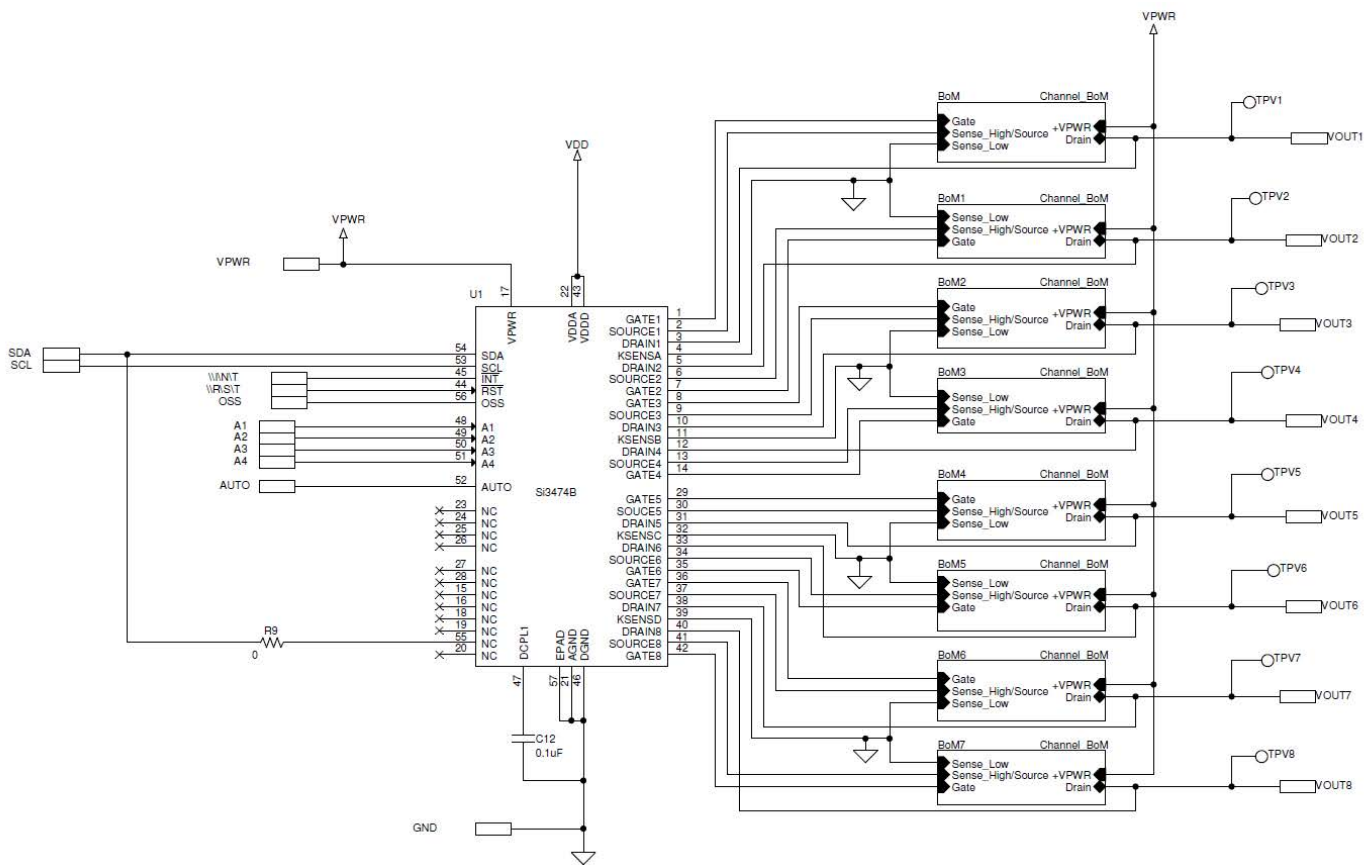


Figure 3.5. DC Schematic 2



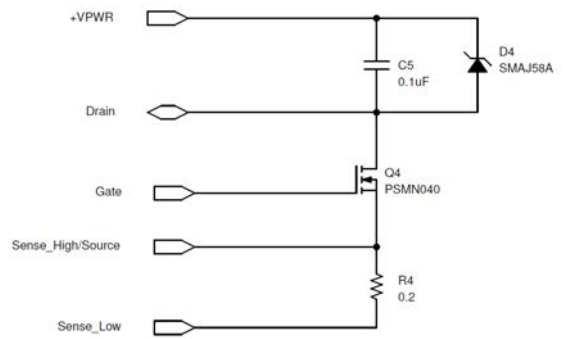
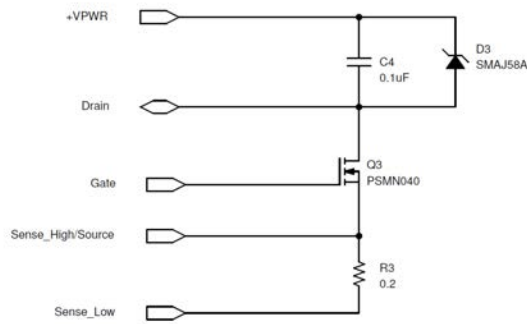
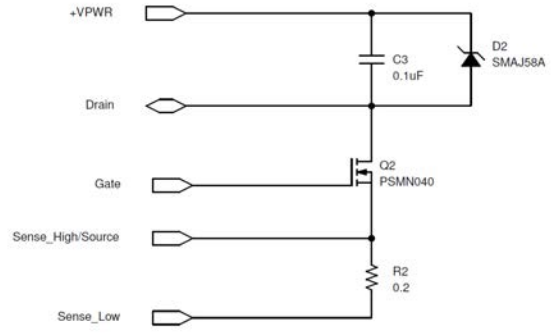
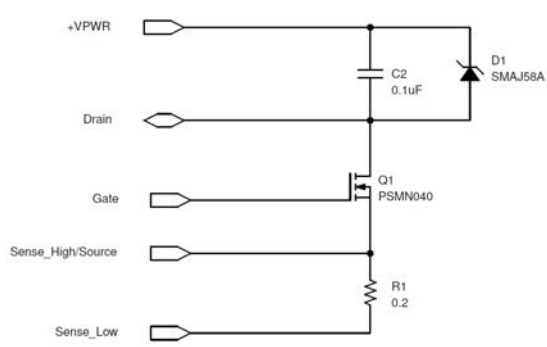


Figure 3.6. DC Schematic 3

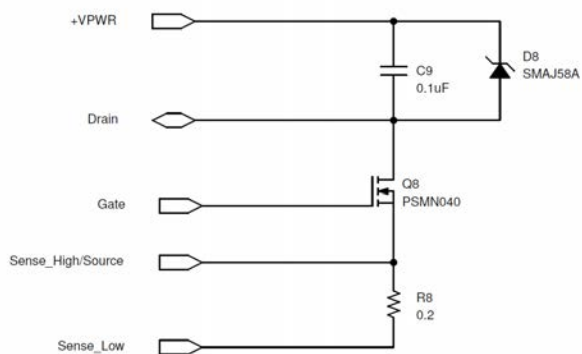
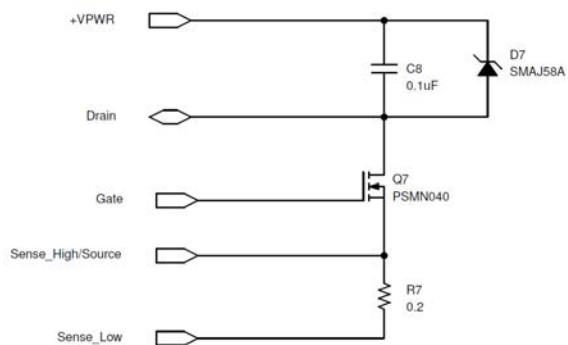
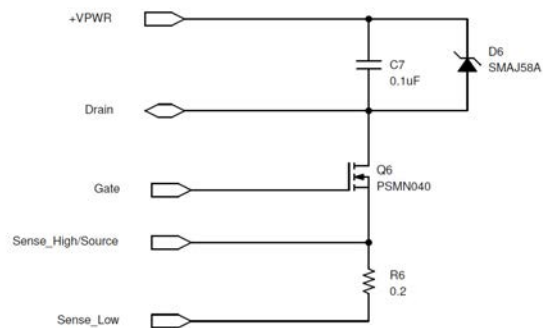
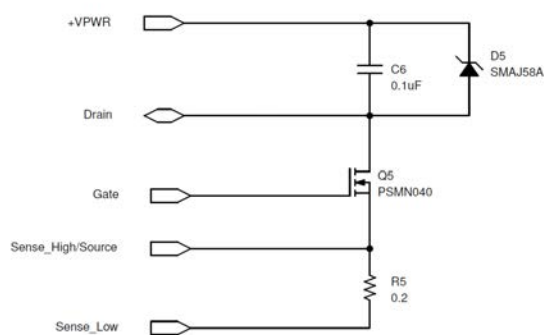


Figure 3.7. DC Schematic 4

### 3.3 Connector Board Schematic

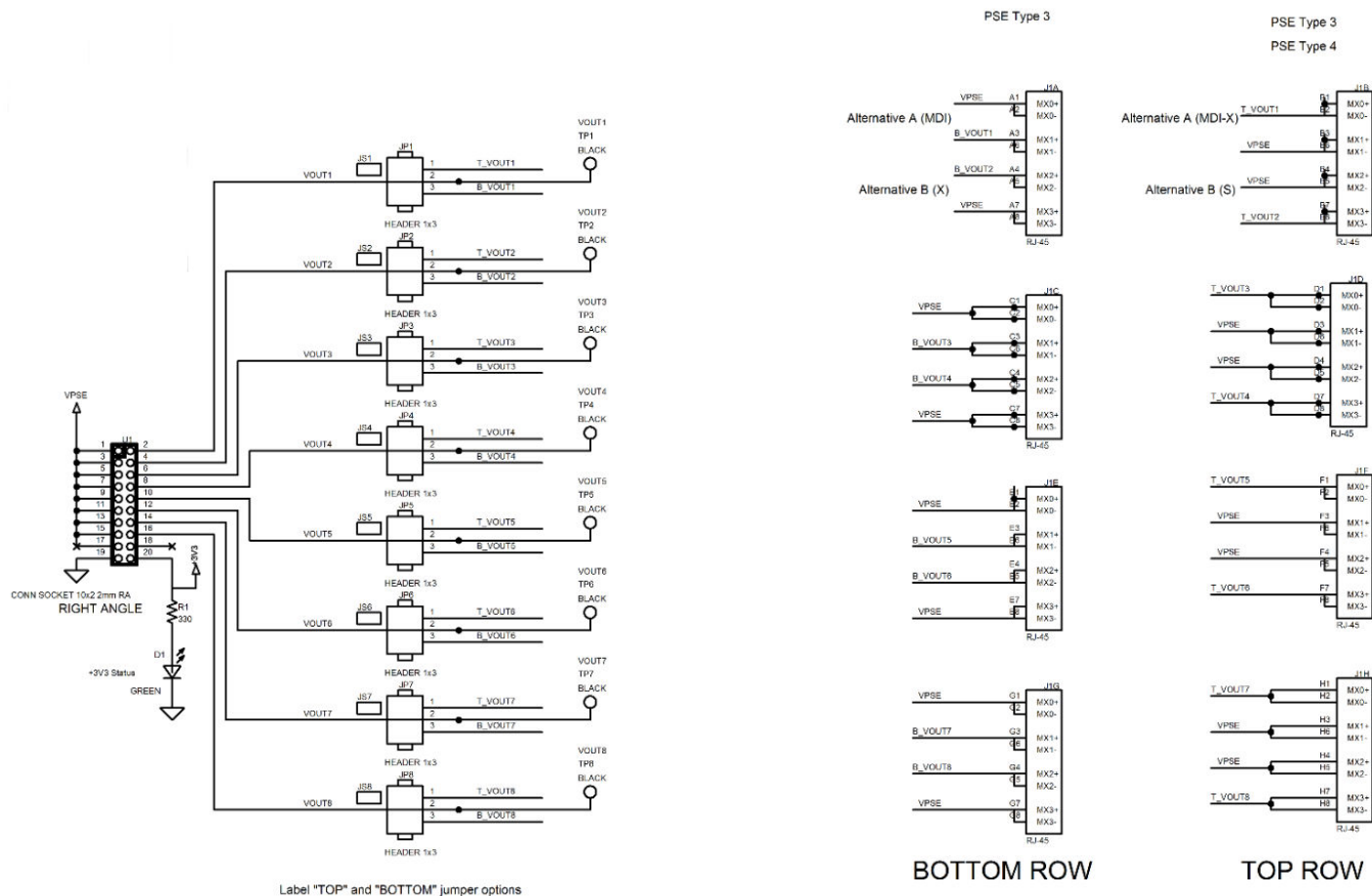


Figure 3.8. Connector Board Schematic

## 4. Si3474 Bills of Materials

### 4.1 Motherboard BOM

| Designator  | Qty | Value                     | PCB Footprint       | Mfr                | Mfr Part Number           |
|---|-----|---------------------------|---------------------|--------------------|---------------------------|
| C12   | 1   | 100 pF                    | C0603               | Venkel             | C0603X7R500-101K          |
| C15   | 1   | 1.5 nF                    | C0603               | Venkel             | C0603X7R160-152K          |
| C3, C5, C6, C7, C10,<br>C13, C14, C16, C17,<br>C20, C21 | 11  | 0.1 μF                    | C0603               | Venkel             | C0603X7R100-104K          |
| C4, C22   | 2   | 1 μF                      | C0603               | Murata             | GRM188R71A105KA61D        |
| C2  | 1   | 1 μF                      | C1210               | Venkel             | C1210X7R101-105K          |
| C18, C19  | 2   | 4.7 μF                    | C0603               | Venkel             | C0603X5R100-475K          |
| C8, C9, C11   | 3   | 10 μF                     | C1206               | Venkel             | C1206X7R100-106K          |
| C1  | 1   | 33 μF                     | C3.5X8MM-RAD        | Panasonic          | ECA2AM330                 |
| D1  | 1   | SP0503BAHT                | SOT143-AKKK         | Littlefuse         | SP0503BAHTG               |
| D2  | 1   | MBRS3100T3                | DO-214AB            | On Semi            | MBRS3100T3                |
| D3, D4, D7, D9  | 4   | Green                     | LED-0805-K          | Lite On, Inc.      | LTST-C170GKT              |
| D5  | 1   | Yellow                    | LED-0805-K          | Rohm Semiconductor | SML-212WTT86A             |
| D8, D11   | 2   | 5.6 V                     | SOD-123             | On Semi            | MMSZ5232BT1G              |
| D10   | 1   | DB2440100L                | SOD-128             | Panasonic          | DB2440100L                |
| JP1   | 1   | Header 1x3                | CONN-1X3            | Samtec             | TSW-103-07-T-S            |
| JP2   | 1   | Header 1x2                | CONN1X2             | Samtec             | TSW-102-07-T-S            |
| JS1, JS2, JS3   | 3   | Jumper Shunt              | N/A                 | Samtec             | SNT-100-BK-T              |
| J1  | 1   | USB-MICRO-B-RA            | MICRO-USB-PTH-WURTH | Wurth              | 6.29105E+11               |
| J2  | 1   | Socket 8 x 2              | CONN2X8-SSW         | Samtec             | SSW-108-01-T-D            |
| J3  | 1   | Socket 1 x 16             | CONN-1X16           | Samtec             | SSW-116-01-T-S            |
| J4, J6  | 2   | Conn TRBLK 2              | CONN-TB-1757242     | Poenix Contact     | 1757242                   |
| J5  | 1   | Header 10 x 2             | CONN2X10-RA-2MM     | Samtec             | TMM-110-01-T-D-RA         |
| J7  | 1   | Header 8 x 2              | CONN2X8             | Samtec             | TSW-108-07-S-D            |
| J8  | 1   | Header 7 x 2              | CONN-2X7-TSW        | Samtec             | TSW-107-07-T-D            |
| MH1, MH2, MH3,<br>MH4, MH5                              | 5   | 4-40                      | MH-125NP            | Richco Plastic Co. | NSS-4-4-01                |
| PCB1  | 1   | Si347xy EVB MB REV<br>1.0 | N/A                 | Silicon Labs       | Si347xy EVB MB REV<br>1.0 |
| R18   | 1   | 100 Ω                     | R0603               | Venkel             | CR0603-16W-1000F          |
| R22, R23, R24, R25                                      | 4   | 1 kΩ                      | R0402               | Venkel             | CR0402-16W-1001F          |
| R6  | 1   | 1.82 kΩ                   | R0603               | Venkel             | CR0603-10W-1821F          |
| R2, R3, R4  | 3   | 3.01 kΩ                   | R0603               | Venkel             | CR0603-16W-3011F          |
| R9  | 1   | 4.7 kΩ                    | R0402               | Venkel             | CR0402-16W-472JT          |

| Designator  | Qty | Value         | PCB Footprint  | Mfr                | Mfr Part Number   |
|---|-----|---------------|----------------|--------------------|-------------------|
| R17   | 1   | 7.68 kΩ       | R0603          | Venkel             | CR0603-16W-7681F  |
| R8, R10   | 2   | 10 kΩ         | R0603          | Venkel             | CR0603-10W-103J   |
| R16   | 1   | 11 kΩ         | R0603          | Venkel             | CR0603-16W-1102F  |
| R7  | 1   | 15 kΩ         | R0603          | Venkel             | CR0603-10W-1502F  |
| R15   | 1   | 15.8 kΩ       | R0603          | Venkel             | CR0603-16W-1582F  |
| R21   | 1   | 20.0 kΩ       | R0603          | Venkel             | CR0603-16W-2002F  |
| R14   | 1   | 22.6 kΩ       | R0603          | Venkel             | CR0603-16W-2262F  |
| R13   | 1   | 35.7 kΩ       | R0603          | Venkel             | CR0603-16W-3572F  |
| R19   | 1   | 43.2 kΩ       | R0603          | Yageo              | RC0603FR-0743K2L  |
| R1  | 1   | 44.2 kΩ       | R0603          | Venkel             | CR0603-10W-4422F  |
| R20   | 1   | 49.9 kΩ       | R0603          | Venkel             | CR0603-10W-4992F  |
| R12   | 1   | 61.9 kΩ       | R0603          | Venkel             | CR0603-16W-6192F  |
| R11   | 1   | 124 kΩ        | R0603          | Venkel             | CR0603-16W-1243FT |
| SO1, SO2, SO3,<br>SO4, SO5                              | 5   | STANDOFF      |                | SPC Technology     | 2397              |
| S1, S2, S3  | 3   | SW Pushbutton | SW4N10P4.5     | Tyco Electronics   | 2-1437565-8       |
| TP1, TP2, TP3, TP4,<br>TP5, TP6, TP7, TP8,<br>TP9, TP10 | 10  | Black         | Testpoint      | Kobiconn           | 151-203-RC        |
| T1  | 1   | 2 μH          | IND-UTB00569S  | UMEC               | UTB02185s         |
| U1  | 1   | Si88220       | SO16N10.3P1.27 | Silicon Labs       | Si88220EC-IS      |
| U2  | 1   | Si8605        | SO16N6.0P1.27  | Silicon Labs       | Si8605AC-B-IS1    |
| U3  | 1   | CP2112        | QFN24N4X4P0.5  | Silicon Labs       | CP2112-F03-GM     |
| <b>Not Installed Components</b>                         |     |               |                |                    |                   |
| D6  | 1   | Red           | LED-0805-K     | Rohm Semiconductor | SML-212U2TT86A    |
| R5  | 1   | 3.01 kΩ       | R0603          | Venkel             | CR0603-16W-3011F  |



## 4.2 Daughtercard BOM

| Designator                                     | Qty | Value              | PCB Footprint     | Mfr          | Mfr Part Number    |
|--|-----|--------------------|-------------------|--------------|--------------------|
| C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C12   | 11  | 0.1 $\mu$ F        | C0603             | Venkel       | C0603X7R101-104K   |
| C13, C14                                       | 2   | 0.1 $\mu$ F        | C0603             | Venkel       | C0603X7R160-104M   |
| C11  | 1   | 10 $\mu$ F         | C0603             | Venkel       | C0603X5R100-106K   |
| D1, D2, D3, D4, D5, D6, D7, D8                 | 8   | SMAJ58A            | DO-214AC          | Littelfuse   | SMAJ58A            |
| JS1, JS2, JS3, JS4                             | 4   | Jumper Shunt       | Shunt             | Samtec       | SNT-100-BK-T       |
| J1   | 1   | Header 8 x 2       | CONN2X8           | Samtec       | TSW-108-07-S-D     |
| J2   | 1   | Header 1 x 16      | CONN-1X16         | Samtec       | TSW-116-07-T-S     |
| J3   | 1   | Header 4 x 3       | CONN3X4           | Samtec       | TSW-104-07-G-T     |
| PCB1   | 1   | Si3474A DC REV 1.0 | N/A               | Silicon Labs | Si3474A DC REV 1.0 |
| Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8                 | 8   | PSMN040            | LFPK33            | Nexperia     | PSMN040-100MSE     |
| R1, R2, R3, R4, R5, R6, R7, R8                 | 8   | 0.2                | R0805             | Venkel       | LCR0805-R200F      |
| R9   | 1   | 0                  | R0603             | Panasonic    | ERJ-3GEY0R00V      |
| TPV1, TPV2, TPV3, TPV4, TPV5, TPV6, TPV7, TPV8 | 8   | TPV                | TP-VIA            | N/A          | N/A                |
| U1   | 1   | Si3474B            | QFN56M8X8P0.5E6.7 | Silicon Labs | Si3474B-A01-IMR    |

## 4.3 Connector Board BOM

| Designator                             | Qty | Value                    | PCB Footprint       | Mfr           | Mfr Part Number   |
|--|-----|--------------------------|---------------------|---------------|-------------------|
| D1                                     | 1   | Green                    | LED-0805-K          | Lite On, Inc. | LTST-C170GKT      |
| JP1, JP2, JP3, JP4, JP5, JP6, JP7, JP8 | 8   | Header 1 x 3             | CONN-1X3            | Samtec        | TSW-103-07-T-S    |
| JS1, JS2, JS3, JS4, JS5, JS6, JS7, JS8 | 8   | Jumper Shunt             | Shunt               | Samtec        | SNT-100-BK-T      |
| J1                                     | 1   | RJ-45                    | RJ45-8PORT          | Molex         | 44170-0001        |
| PCB1                                   | 1   | PoE-BT-CB Rev 2.0        | N/A                 | Silicon Labs  | PoE-BT-CB REV 2.0 |
| R1                                     | 1   | 330 $\Omega$             | R0603               | Venkel        | CR0603-16W-3300F  |
| TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8 | 8   | Black                    | Testpoint           | Kobiconn      | 151-203-RC        |
| U1                                     | 1   | Conn Socket 10x2 2 mm RA | CONN2X10-2MM-SKT-RA | Samtec        | SQT-110-01-F-D-RA |

## 5. Appendix

Earlier Si3474-KITs were shipped with PoE-BT-CB Rev 1.0 instead of PoE-BT-CB Rev 2.0. If the Si3474-KIT is shipped with PoE-BT-CB Rev 1.0, this section describes how to use the PoE-BT-CB Rev 1.0.

PoE-BT-CB Rev 1.0 has a schematic error. However, it is possible to work-around this error by ignoring the printed silk screen then using the PoE-BT-CB Rev 1.0 as shown in the following figures.

Check Silk Screen for PoE-BT-CB Revision. Errata applies if '1.0' only

Actual Functionality (deviations highlighted in RED)

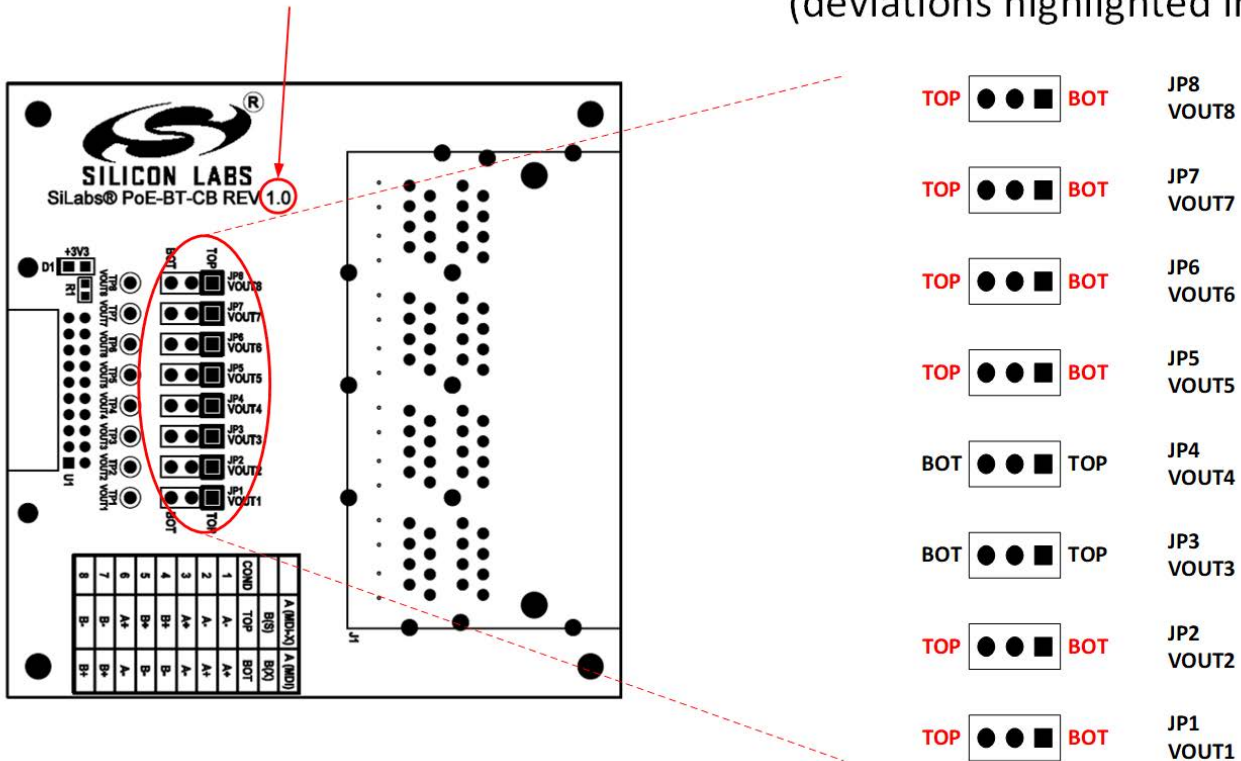


Figure 5.1. PoE-BT-CB Rev 1.0

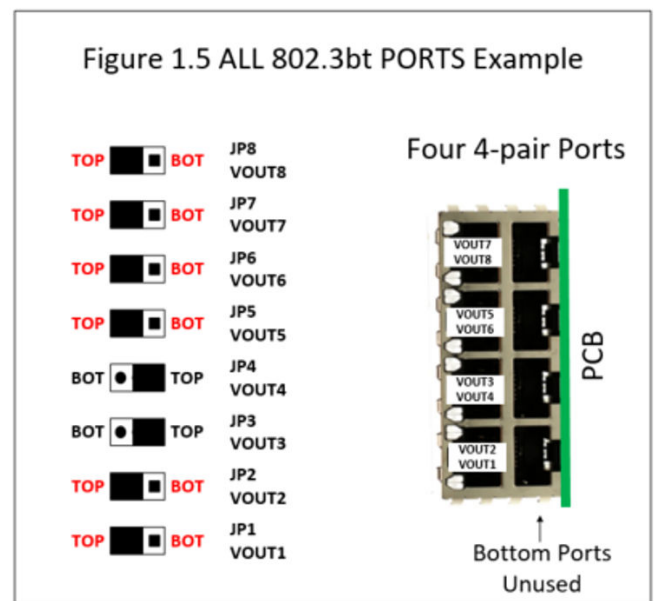
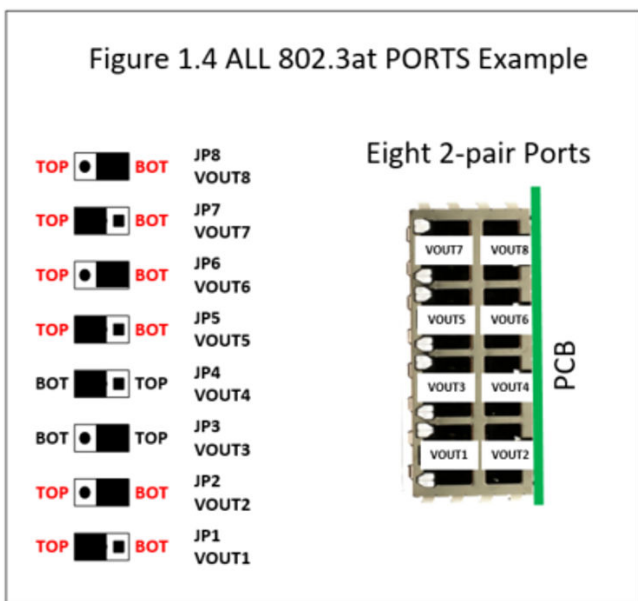
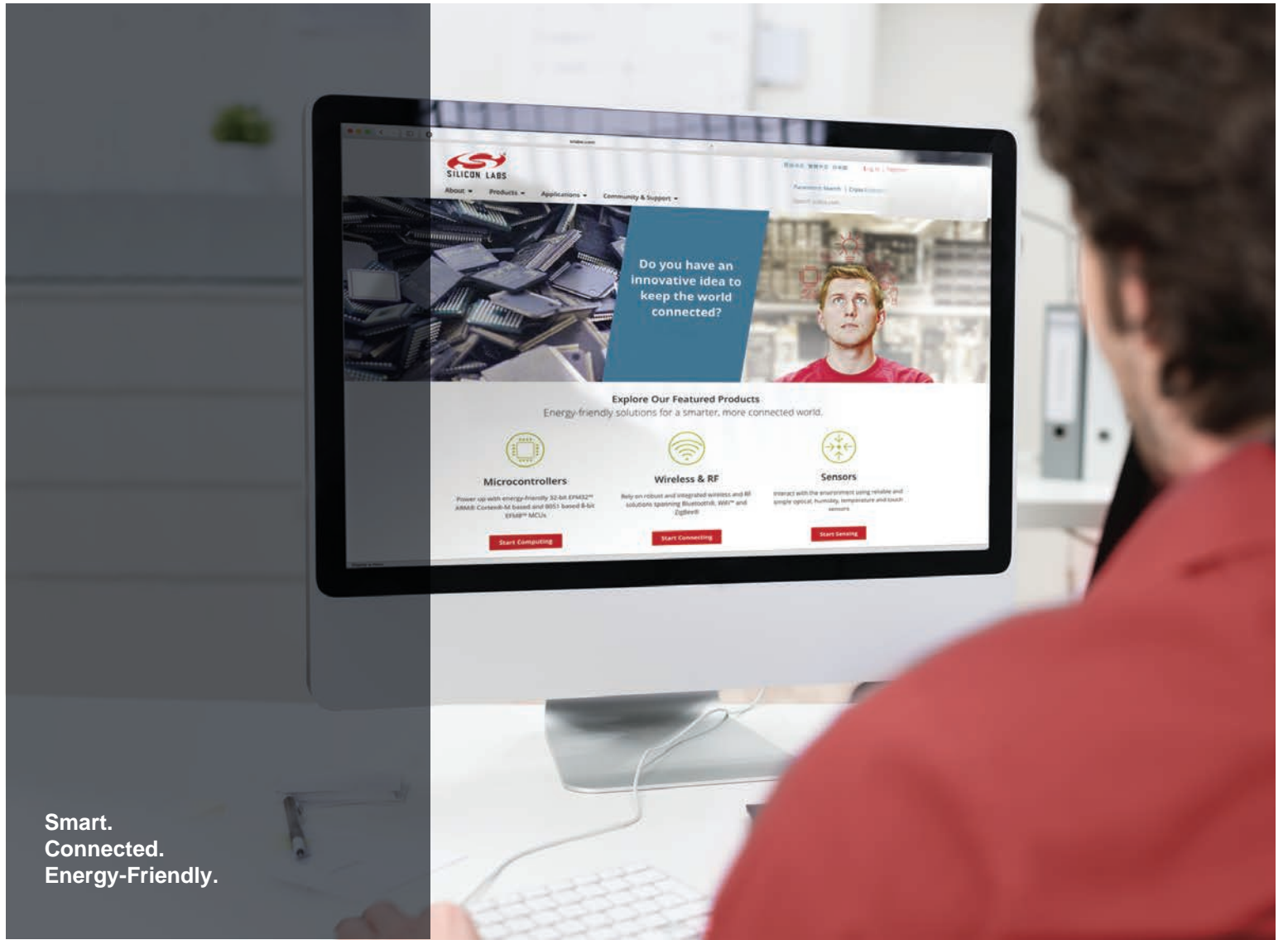


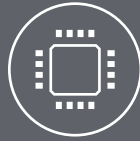
Figure 5.2. Replacement Figures for PoE-BT-CB Rev 1.0



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