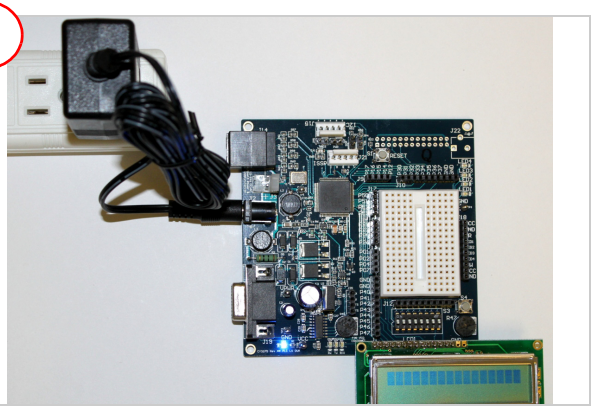
Using the CY3275 Low Voltage 12V-24V AC/DC PLC Development Kit

To evaluate this kit, a second PLC low voltage kit is required (CY3273 or CY3275). This guide assumes that two CY3275 kits are available.

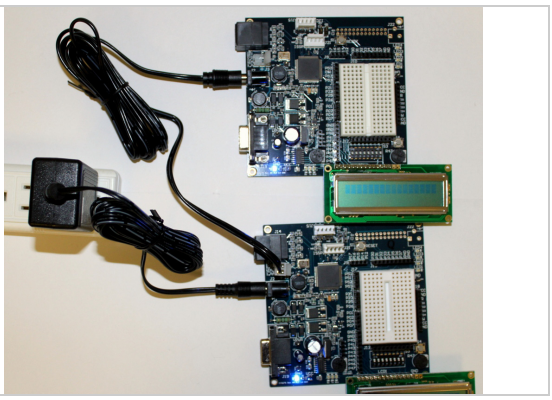
1



1. Connect the power adapter from the mains to header J2 on the first CY3275 board (node 1). The blue LED powers on.

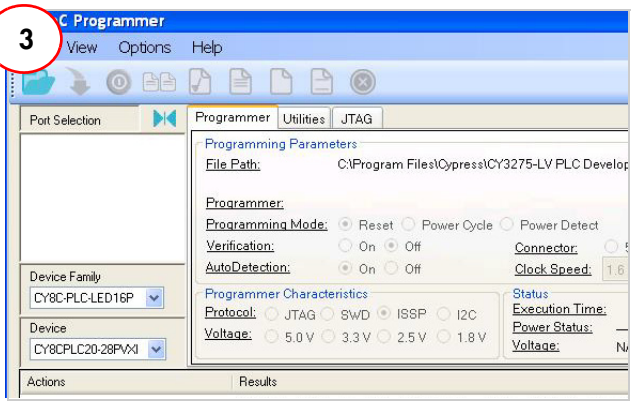
Note: Ensure that the LCD module is connected correctly to the LCD1 header. Incorrect connection may cause the board to short circuit.

2



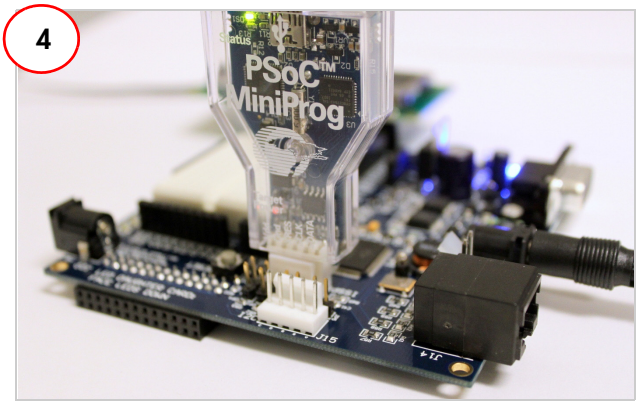
1. Attach one end of the custom daisy chain cable to header J3 on node 1. The cable connector's latch should face inward to J3.
2. Connect the opposite end to header J2 on the second CY3275 board (node 2). The blue LED powers on.

3



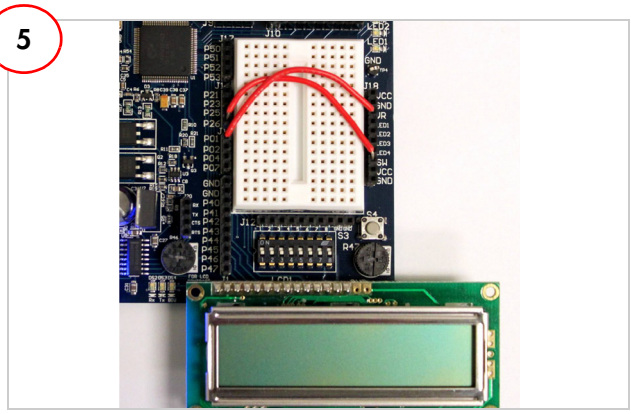
1. Install and run PSoC Programmer from the kit CD.
2. Set Device Family to CY8C-PLC-LED16P, Programming Mode to Reset, Verification to either option, and AutoDetection to On.
3. Open the *CY8CPLC20_TX.hex* file from the "Firmware\AN54416_Code Example\CY8CPLC20_TX" folder on the kit CD.

4



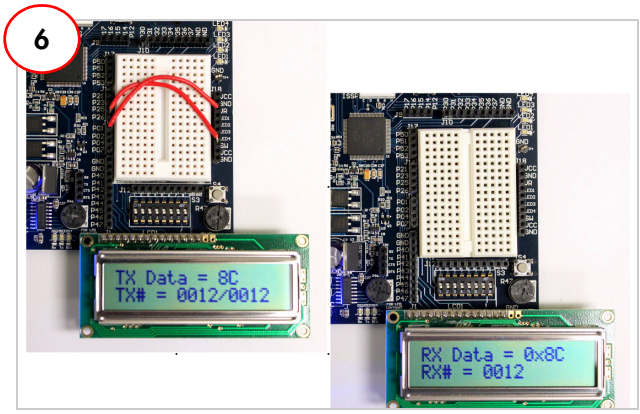
1. Connect the USB cable from the PC to the MiniProg programmer. Connect MiniProg to the ISSP header J21 on node 1.
2. In PSoC Programmer, click the Program button (downward arrow). When the status is "Programming Successful", remove MiniProg from the ISSP header.
3. In PSoC Programmer, open the *CY8CPLC20_RX.hex* file. Repeat steps 1 and 2 for node 2.

5



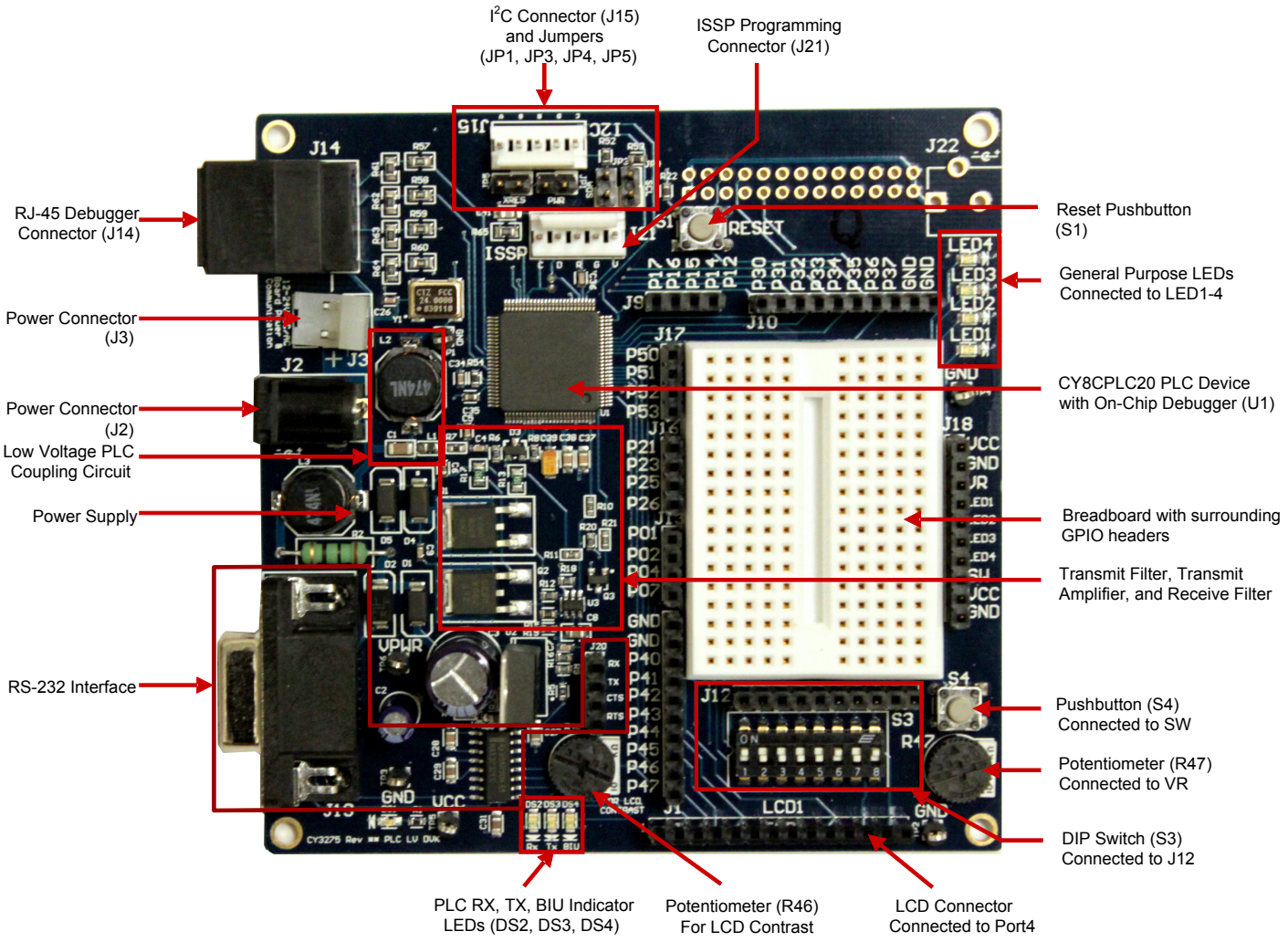
1. On node 1, connect a jumper wire from SW to P26 and a second jumper wire from VR to P01. The SW header represents the state of pushbutton S4. The VR header represents the analog voltage from potentiometer R47.

6



1. Push the reset button S1 on both nodes. A welcome message appears on the LCDs.
2. When you press pushbutton S4 on the first node, the digitally converted voltage from the potentiometer (R47) is transmitted to the second node and displayed on the LCD.

CY3275 Top View



For the latest information about this kit, visit
http://www.cypress.com/go/plc

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