

iPort-USB Tool User Guide for Pericom ReDriver Application Application Engineering

Installation of iPort Utility Pack Procedures:

- 1) Insert iPort Utility Pack disk or Download it from website at <http://www.mcc-us.com/iPuTil550CD.htm>
- 2) Open “iPuTil550CD” folder
- 3) Double click “SETUP.EXE” and follow the instructions to install I2C Software
- 4) Hit “Finish”

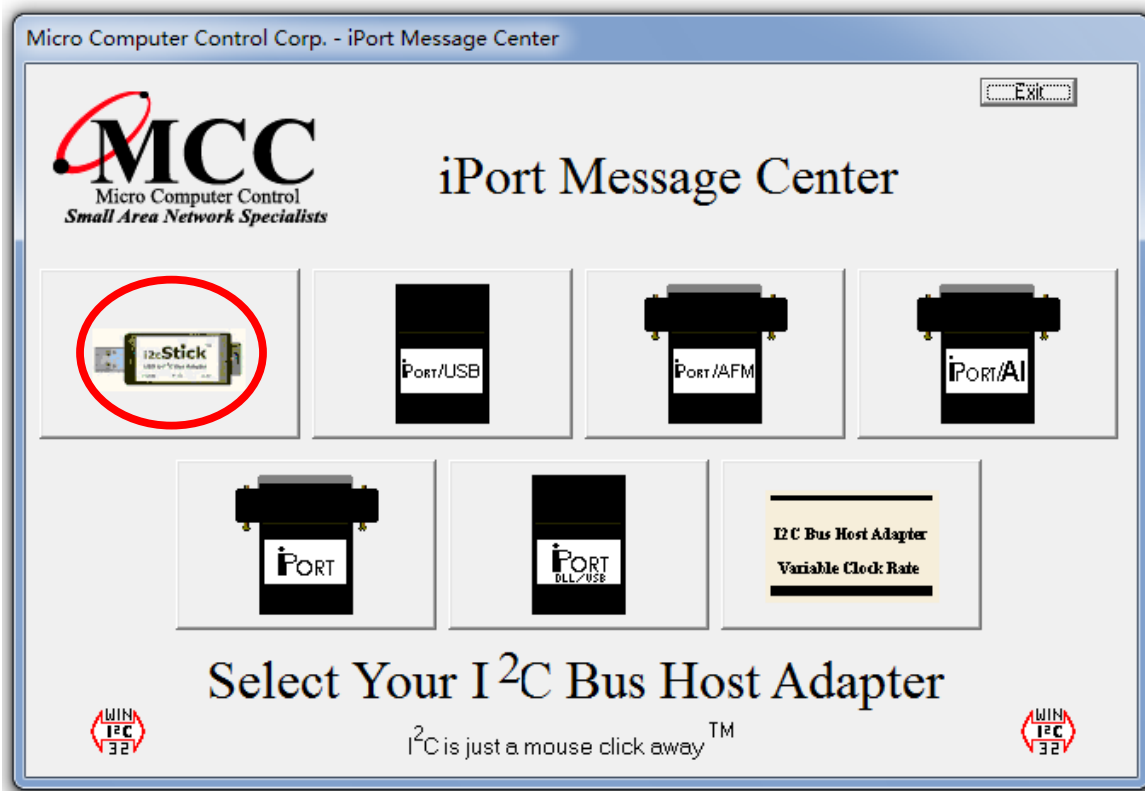
Running I2C Bus Software:

- 1) Open iPort Message Center from

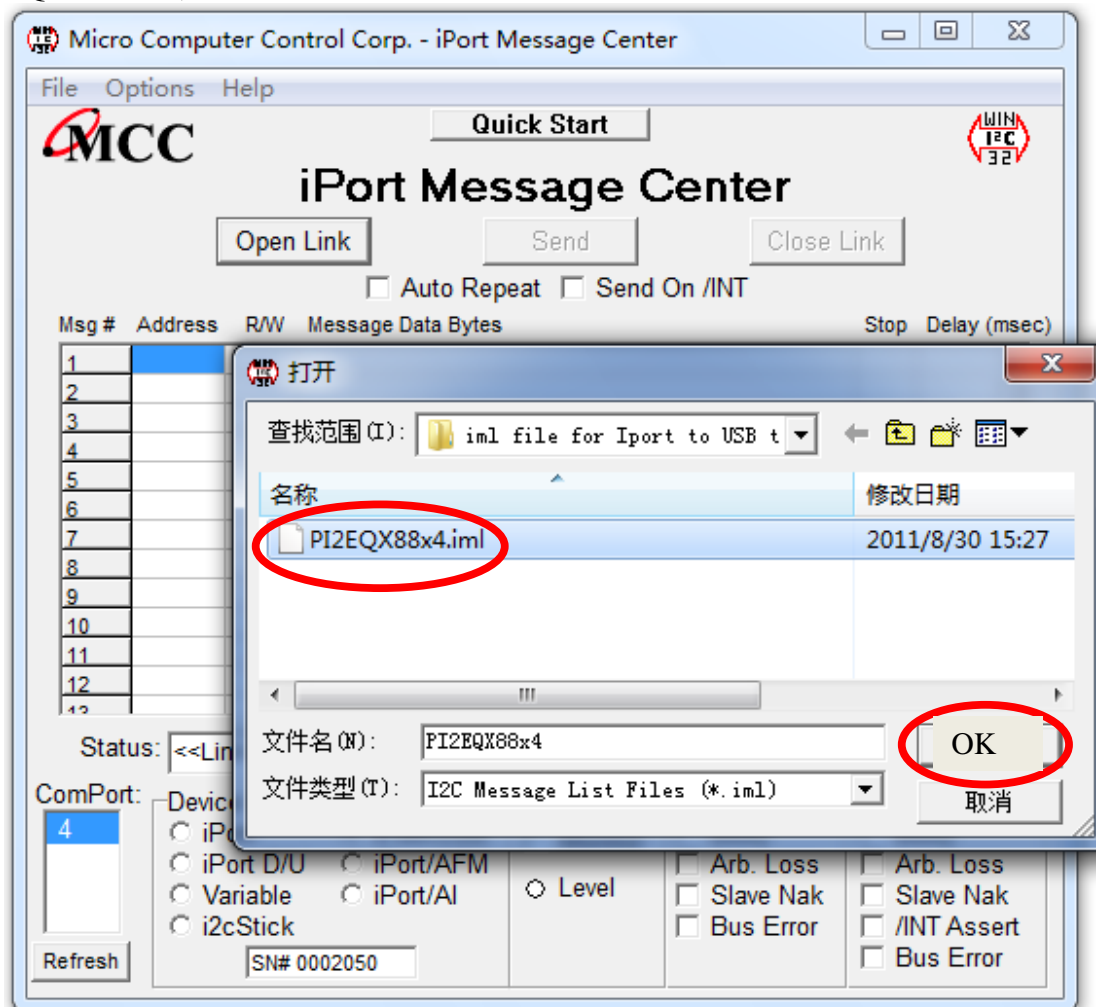


iPort Message Center.lnk

- 2) Click “iPort/USB” button when the following window pops up.

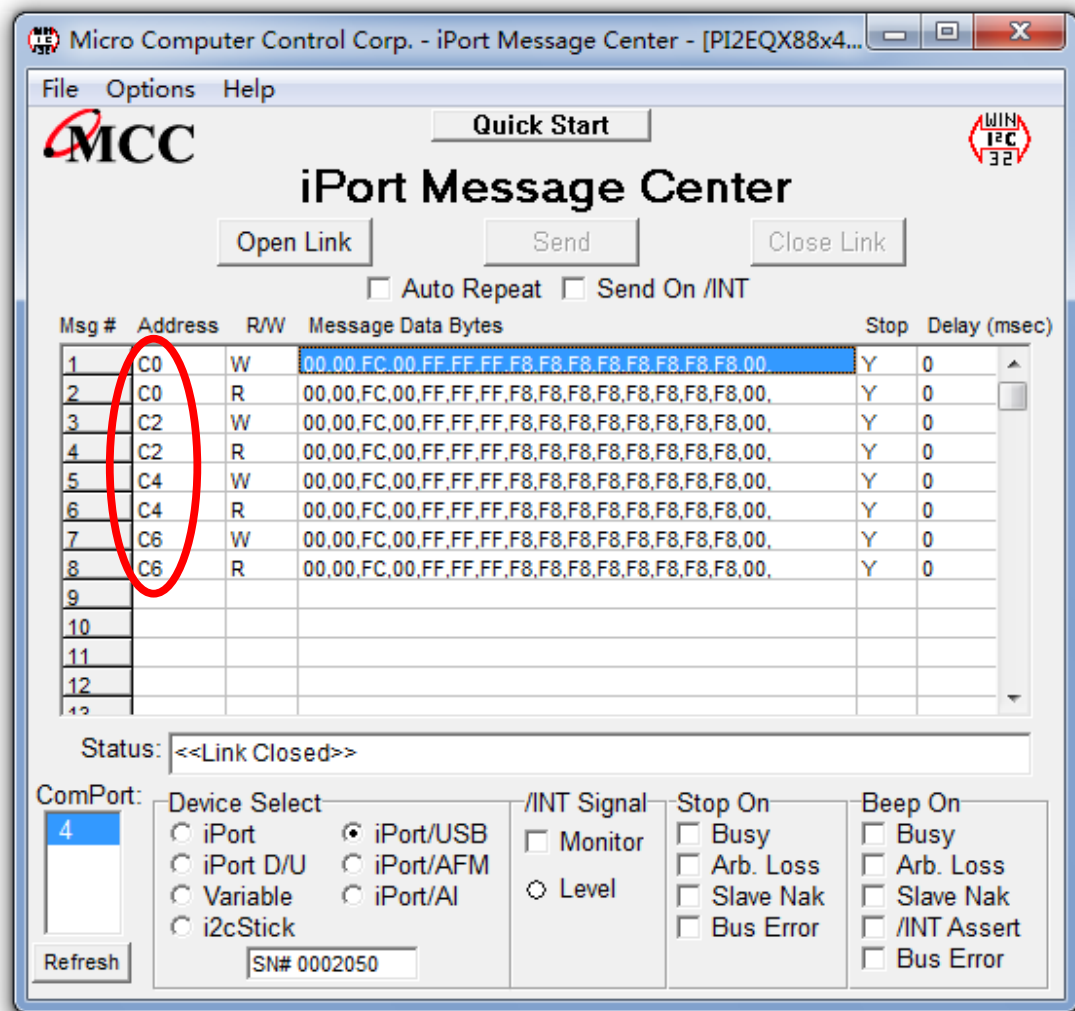


- 3) From File of iPort Message Center, choose “Open List...” and select correct path for the file-PI2EQX88x4.iml, as shown below.



- 4) Click and hit “OK” to load file “PI2EQX88x4.iml”.

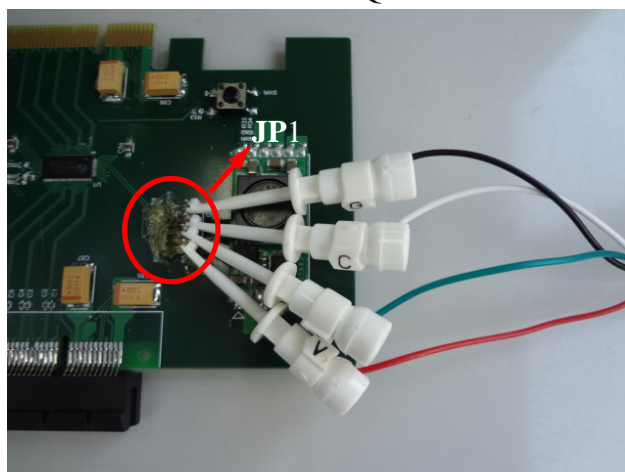
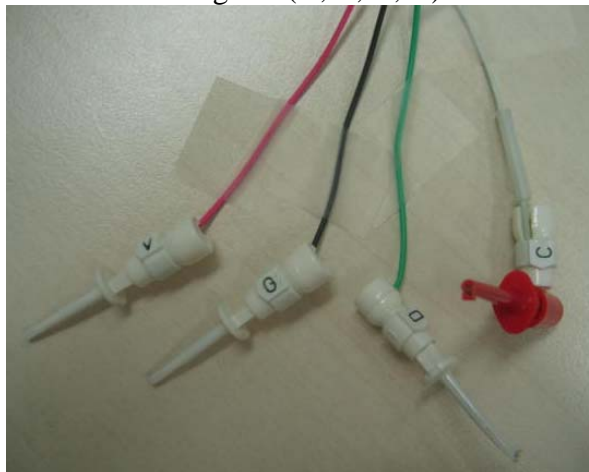
- 5) Address is C0/C2/C4/C6 as default per resistors on PI2EQX88x4 EVB, as shown below.



- 6) Changing Bytes for signal quality. (Please refer to Page9~14 in datasheet for setting details)
 Line 1: Write action functionality
 Line 2: Read back to ensure the Write action is done correctly

Hooking up iPort Controller

There are four signals (D, C, G, V) connected to the iPort Controller and PI2EQX88x4 EVB.



The signals should be connected as below:

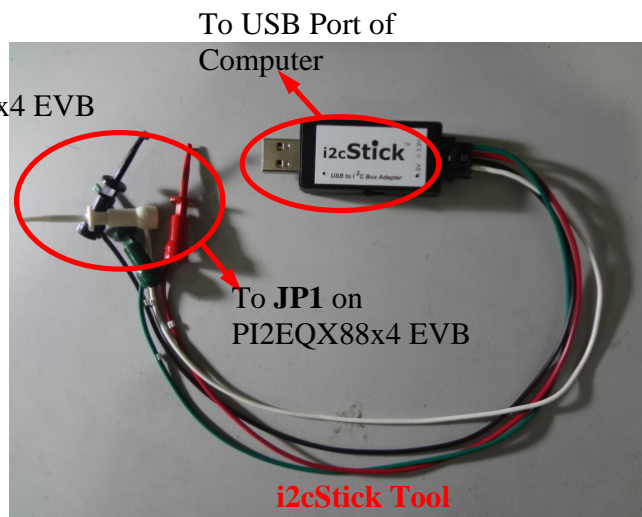
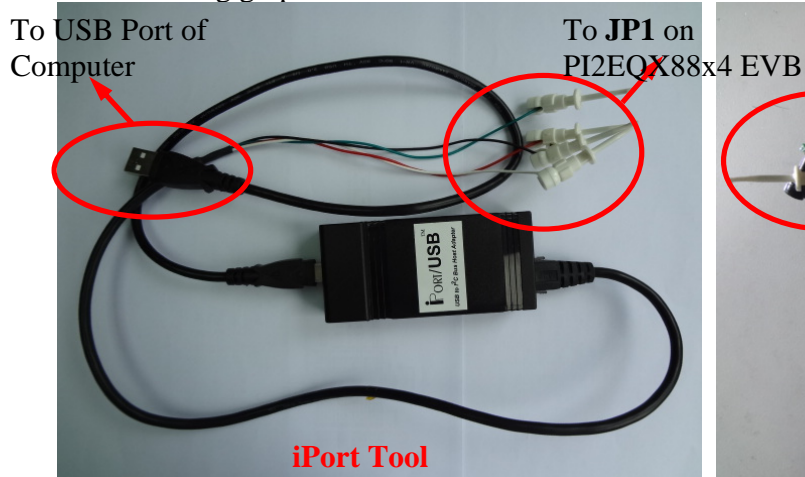
D → SDA of JP1 on PI2EQX88x4 EVB

C → SCL of JP1 on PI2EQX88x4 EVB

G → Ground of JP1 on PI2EQX88x4 EVB

V → VDD of JP1 on PI2EQX88x4 EVB

The following graph shows the tool connection.



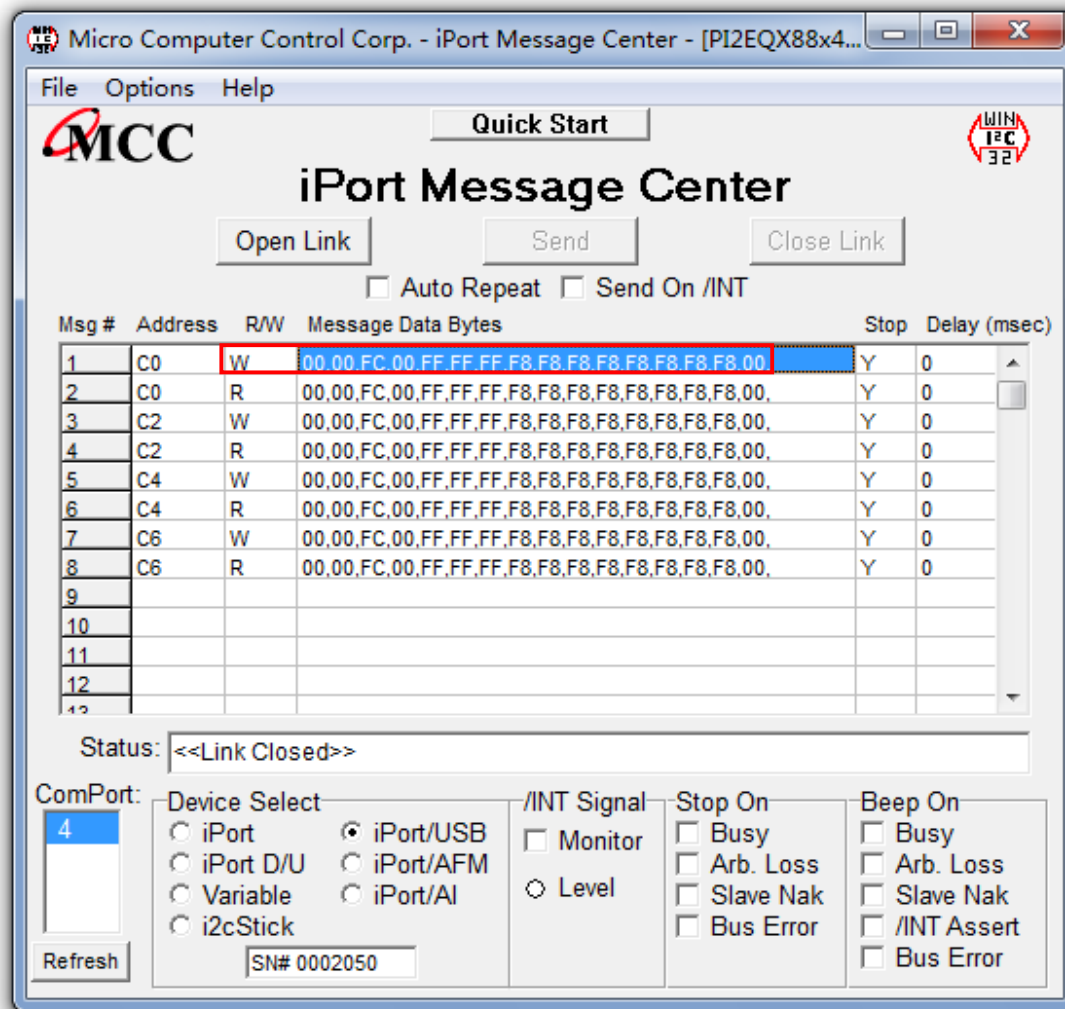
The iPort/USB tool could be available to buy from website below,

[http://www.mcc-us.com/catalog.htm#I2C Bus Host Adapters](http://www.mcc-us.com/catalog.htm#I2C%20Bus%20Host%20Adapters)

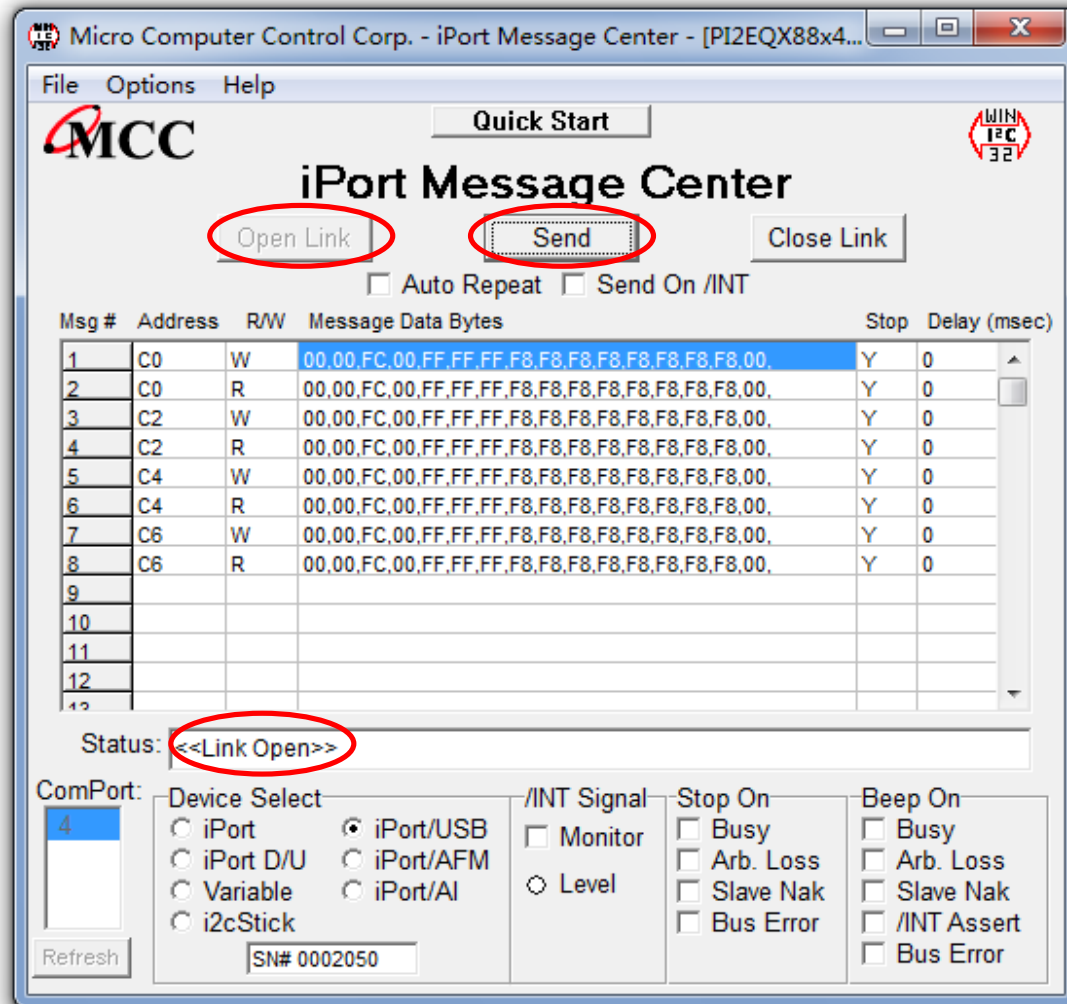
Testing Procedures

- 1) Confirm the setting of each IC and each channel of PI2EQX88x4 and modify them by clicking Write action line as shown below.

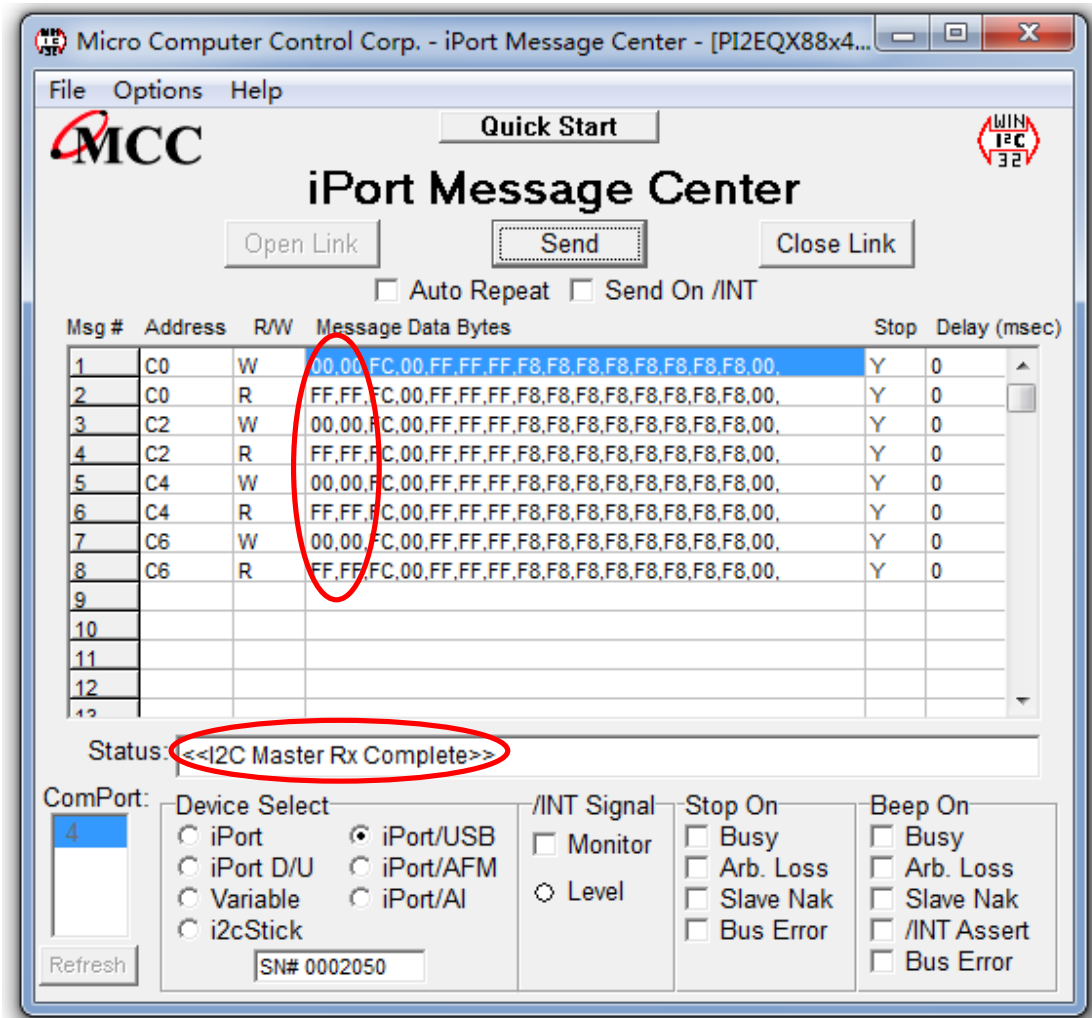
Note: C0 is the address of U1, C2 is the address of U2, C4 is the address of U3, and C6 is the address of U4.



- 2) Click **Open link** button and make sure the information is shown below. And hit **Send** to do all the actions from Line1 to Line8. Read back in Lines to ensure the Write action is written in successfully.



Once the I2C action is successful, the window shows as below.



- 3) Adjust Configurations for better signal quality for each channel of U1/U2/U3/U4. And all the configurations will be active once hitting **Send**.

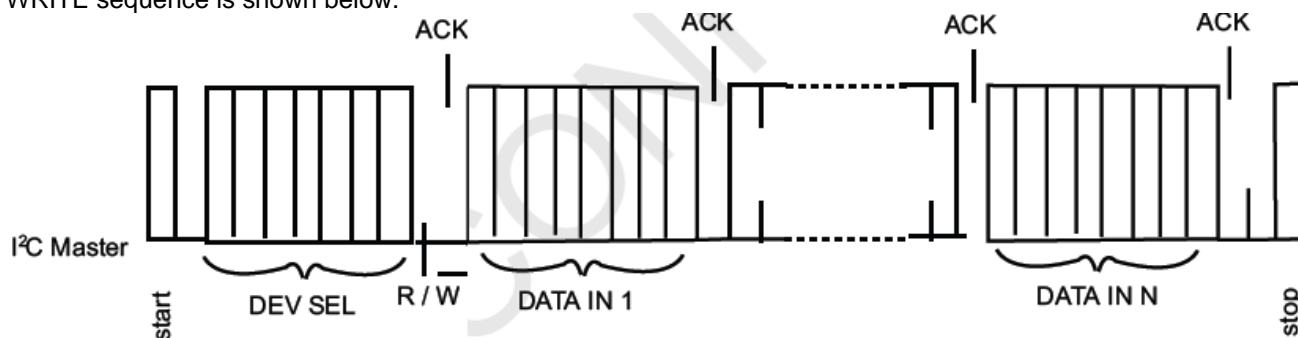
Attached here is PI2EQX88x4.iml for the reference.



PI2EQX88x4. iml

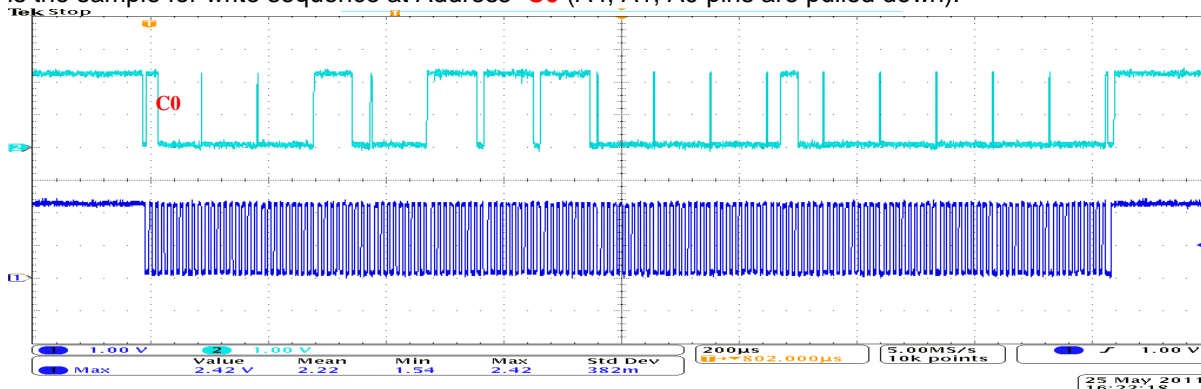
I2C Configuration Sequence

WRITE sequence is shown below.



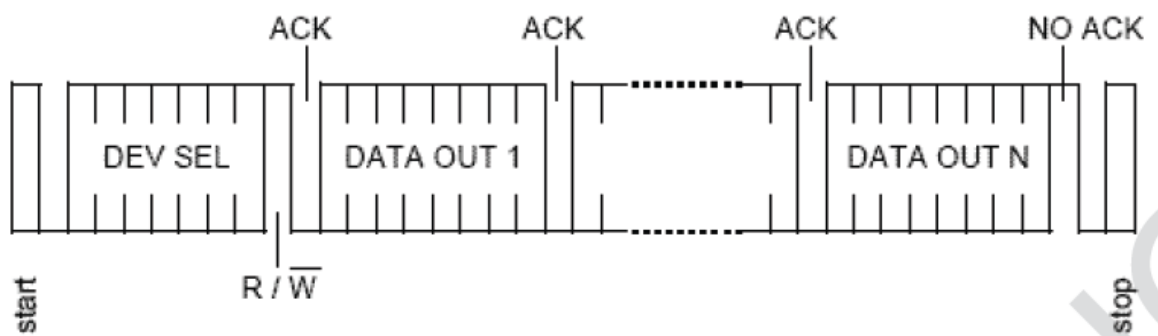
I2C WRITE Sequence Diagram

below is the sample for write sequence at Address=C0 (A4, A1, A0 pins are pulled down).



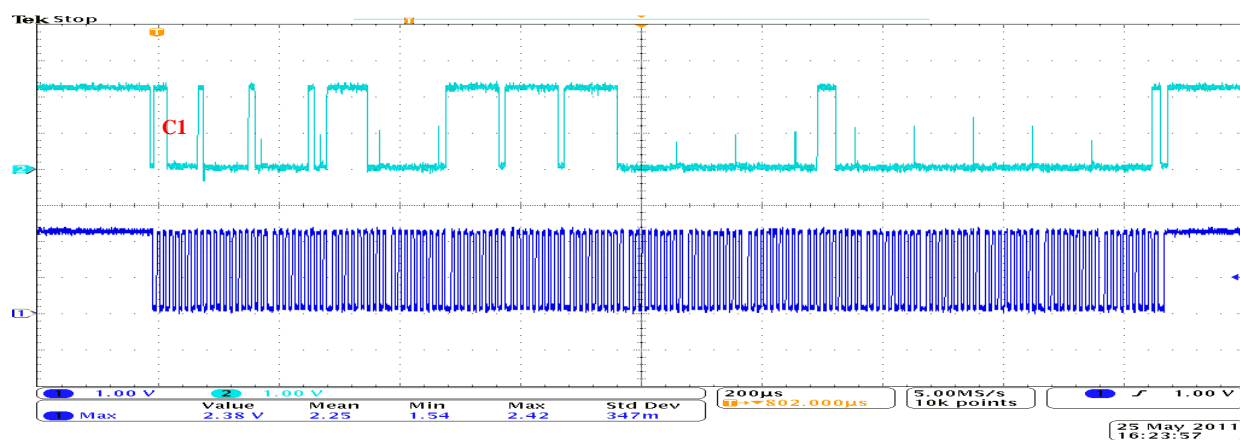
I2C WRITE Sequence Sample

READ sequence is shown below.



I2C READ Sequence Diagram

Below is the sample for read sequence sample at Address=C1 (A4, A1, A0 pins are pulled down).



I2C READ Sequence Sample