

# Small OLED Module I2c Display for Arduino

13 September 2017



Parts and faceplate will be available from QRVTronics as a Kit.



0x3C address

GND: Ground  
VCC: Power (2.8V-5.5V)  
SCL: Clock –  
SDA: Data –

## Specifications:

Power Supply: 3.3V to 5V

Power consumption: maximum 20mA when all dots light on

Communication mode: IIC

Work with all micro-controller and microprocessor

Communication signal can work on 3.3V and 5.0V

High bright self-light emitting

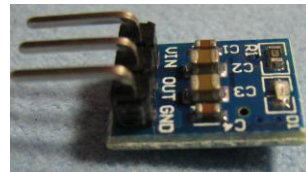
Simple command sets, easy to remember

### **OLED Kit includes the following:**

- 1 – Faceplate
- 1 – Small OLED Display Module
- 1 – Cable Assembly
- 1 – 5-volt regulator
- 1 – Set of mounting brackets or use self-adhesive double sided tape.

### **5-volt regulator specifications:**

Input voltage: 6.5V-12V  
Output voltage: 5V  
Maximum current: 800mA

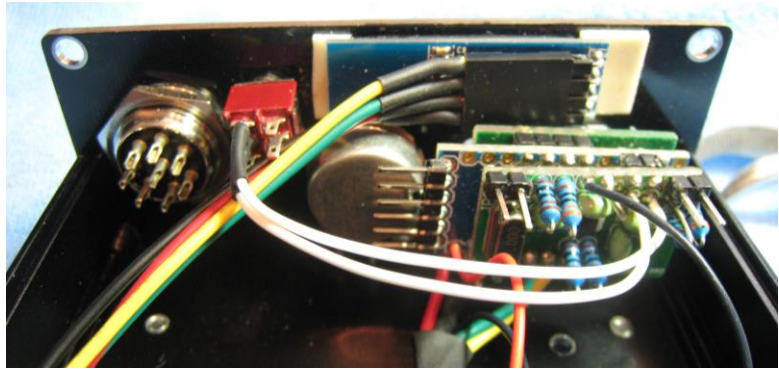


## **Process for adding the OLED to an existing KN-Q7A or CS Series Radio**

- Open Radio and set top aside
- Remove existing faceplate
- Remove all components mounted on original faceplate
- Set faceplate aside, it will no longer be used
- Update the Sandwich Software – available at [QRVTronics.com](http://QRVTronics.com) by emailing: [larry@qrvtronics.com](mailto:larry@qrvtronics.com)
- Mount OLED Display to new faceplate using:
  - Mounting brackets using super glue, not supplied
  - Or Using Self Adhesive double sided tape
- Re-Mount the Microphone connector to the new faceplate
- Re-Mount the 10K Gain control to the new faceplate.
- If using the Dual Band Option, mount the dual band switch.

- ❑ Remove the LED from the Sandwich – this can be unsoldered or clipped, it will no longer be used.
- ❑ Attach the OLED Display cable assembly

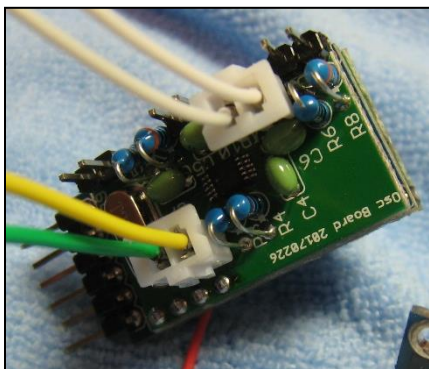
- The 4 pin connector goes to the OLED Display as shown
- The 2 pin connector goes to the I2C bus with the yellow wire to the right.



Note: If no header pin was placed on the Sandwich, you may clip off the 2 pin connector and solder the wires on the Sandwich I2C buss.

- The Black wire from the cable connects to ground.
- The Red wire from the cable connects to +8V (can be connected to the 8V on the Gain control).
- Note: There is a 5-volt regulator attached to the cable assembly with a 3 pin connector.

- ❑ Mount the new faceplate to the bottom case while placing the Sandwich through its new hole
- ❑ Secure the Sandwich to its new position.
- ❑ Secure the new faceplate.



Note: the two white wires go to the Dual Band Switch. While the Green and Yellow connect to the I2C Buss.

Yellow Wire is: SDA

Green Wire is: SCL



Turn on Power to test the display.

Re-Assemble the radio case.

Original Faceplate:



New Faceplate:

