Proximity ChatterBox Mesh Node - DIY

⚠ This can be dangerous, do not attempt unless you have a good undersanding of electronics! This feature experimental and may contain bugs!

What it Can Do

- Everything a basic node can do, plus:
- Detect motion and optionally notify your cluster
- Close relay automatically (switch) on motion detected
- Close relay remotely
- Report last motion

Proximity Sensing Node with Relay

Required Components

One of the Following time sources, plus a relay and/or proximity sensor, along with Qwiic wire to connect them:

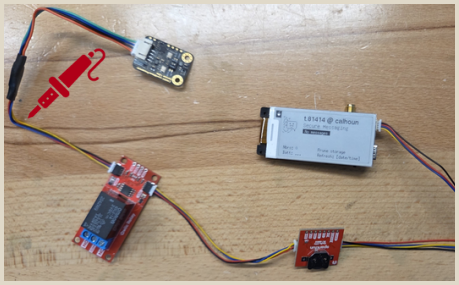
- Adafruit DS3231 RTC
- SparkFun RV-8803 RTC
- SparkFun Qwiic Relay
- DFRobot mmWave Sensor

*It's also OK to run without a relay or without a proximity sensor

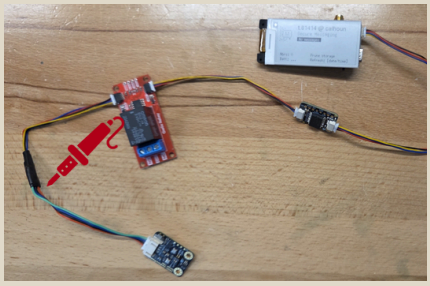
1. Choose one of the following node options:

Chain components together with Qwiic/Stemma QT cables, and DFRobot cable must be connected to a Qwiic cable, as shown.

Paper Proximity Node Options - Keeps last display if power is cut



T3S3 Paper + SparkFun RV8807 + Relay + Doppler

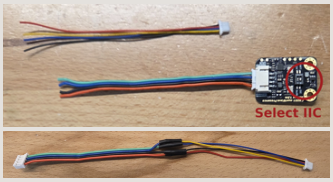


T3S3 Paper + Adafruit DS3231 + Relay + Doppler

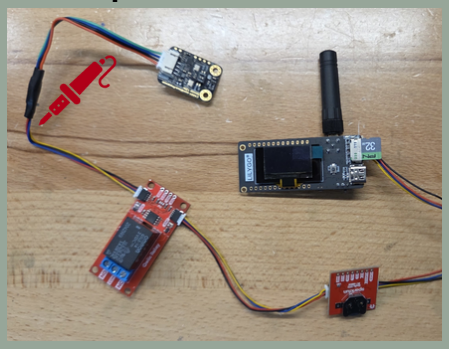
One bit of Soldering

For the DFRobot sensor, you'll need to create a Qwiic adapter:

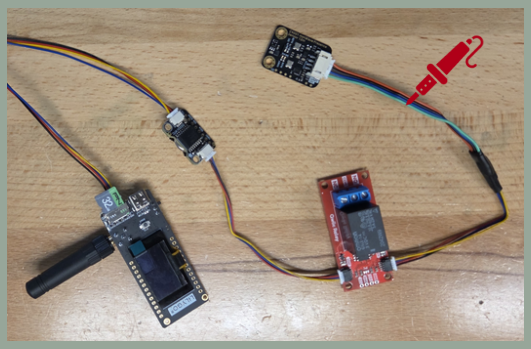
DFR Green → Qwiic Blue
DFR Blue → Qwiik Yellow
DFR Red → Qwiic Red
DFR Black → Qwiic Black



OLED Options - Visible in the dark

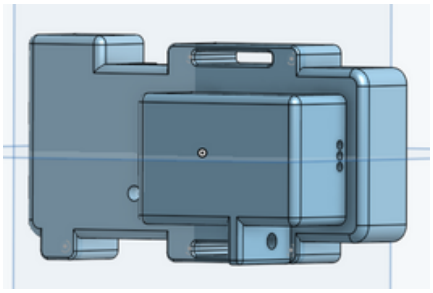


T3S3 + SparkFun RV8807 + Relay + Doppler



T3S3 + Adafruit DS3231 + Relay + Doppler

3D Printable Case Options Coming Soon



2. Add Compatible SD Card

See firmware download page for list

3. Install Firmware

https://chatters.io/firmware

4. Onboard the Node

- *Power up the node*
- *On your Root communicator, select "Settings / Cluster / Onboard New Device"*
- *Wait a minute or two, it should automatically join*