

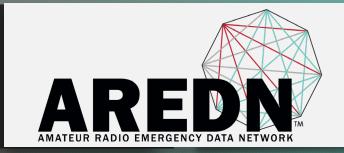
### AREDN DEVICE DEPLOYMENT SENARIOS

Joe Ayers, AE6XE

YTHF May 23, 2020

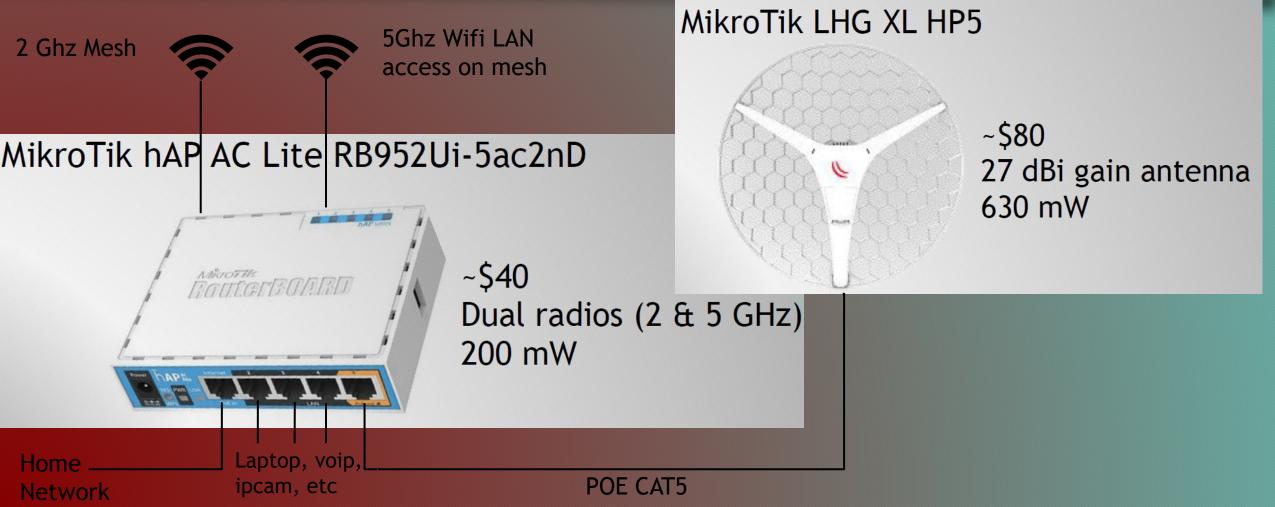
- QTH connecting in to area AREDN mesh
- Go-Box: community event relay station with ipCam
- Tower site P2P long distance
- Tower site area coverage

#### **Presentation Overview**

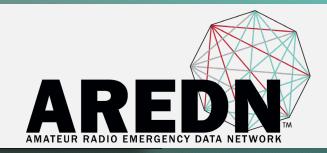


### QTH connecting in to area AREDN mesh



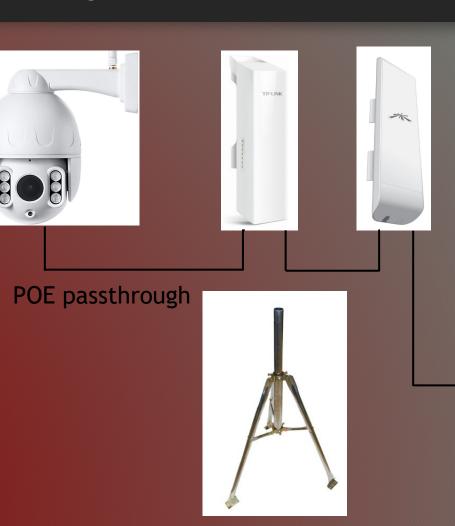


# Go-Box: community event relay station with ipCam



Caution! May need 24v to 12v POE splitter

Check power specs!



2 port devices: Ubiquiti Nanostation M2/M3/M5, TP-Link CP210 v1/v1.1, CPE220 v2/v3 CPE510 v1/v1.1

All 4 ports act as if a single layer 2 network switch

24v to deliver needed power over POE (current limited)



### Tower site P2P long distance





Ubiqiuti PBE M5 620 w/ ISO shielding

Ubiquiti Rocket M2/M3/M5

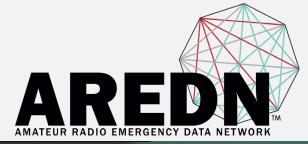
Ubiquiti RocketDish M5-30dBi



Ubiquiti ToughSwitch



### Tower site area coverage - Sectors

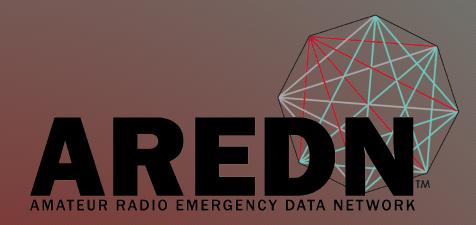


Ubiquti Rocket M2/M3/M5

Ubiquiti 120 deg Sectors

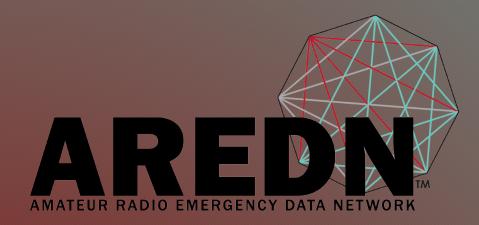
**RF** Shielding





## **Contact Info**

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## Photos



Backbone Using High Ground Mt. Palomar, 6200' ASL to Mt. Otay at 48 miles







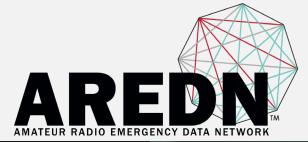
#### 2 GHz and 5 GHz Downlinks High Ground at Ham's Mountain Cabin







### Deployed Relay Node Temporary Shelter Deployment



### Exercise Your Skills



