AREN DEPLOYMENT SCENARIOS

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

2 Ghz Mesh

5Ghz Wifi LAN access on mesh

MikroTik hAP AC Lite RB952Ui-5ac2nD

~$40
Dual radios (2 & 5 GHz)
200 mW

MikroTik LHG XL HP5

~$80
27 dBi gain antenna
630 mW

Home Network

Laptop, voip, ipcam, etc

POE CAT5
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

POE passthrough

24v to deliver needed power over POE (current limited)
Tower site P2P long distance

Ubiquiti Rocket M2/M3/M5

Ubiquiti RocketDish M5-30dBi

Ubiquiti PBE M5 620 w/ ISO shielding

Ubiquiti ToughSwitch
Tower site area coverage - Sectors

Ubiquiti Rocket
M2/M3/M5

Ubiquiti 120 deg
Sectors

RF Shielding
Contact Info

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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