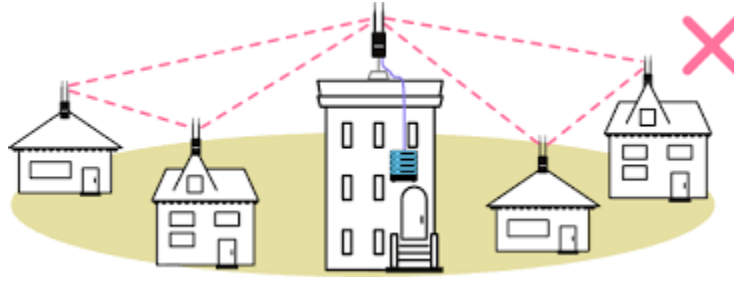

Mesh-Net Starter Kit for Base or Mobile Locations



In this info packet we discuss the hardware needs only. AREDN software and programming is required to complete the setup. The software and instructions are found at: **www.arednmesh.org**

I recommend getting help from someone who knows "MESH" to install it.

Here is a recommended Mesh-net system that you might want to consider for your base location that has a high gain directional antenna. This will also work in a mobile application with a tall portable mast and a good 12 volt power supply. If you stay under about 20 feet you probably won't need guide wires unless there is windy conditions.

It uses the 5Ghz band for low noise and good range. If you live on the side of a mountain and suffer from its "Radio shadow" or need to "Beam" your signal in a particular direction this would be the best configuration for you.

The sector antenna, the "Ubiquity 120 Degree 5GHz MIMO 19dBi w/cables", has a 120 Deg "RF" view and helps you receive and send out a high gain signal. It also has "Dual Polarity" antenna elements to get the best signal possible from bounce and scatter effects.

The Radio is a "Ubiquity 802.11N MIMO 5 GHz Rocket AP", which is ready to mate to the Dual Polarity sector antenna.

This system will work with the 2.4 GHz components as well, but the noise floor is so high, you may have a hard time making a connection.

Here is what you are going to need.

1. The Ubiquity Rocket M5 radio
2. The Ubiquity 120deg sector antenna and cables to Rocket
3. 1-P.O.E. (power over Ethernet device)
4. Cat-5e cable to connect the radio to the power and your computer
5. A portable or a permanent mast to mount your antenna high enough to work
6. A laptop for portable use or a home computer if at your Base location

Mesh-Net Starter Kit for Base or Mobile Locations

A list of prices found on the internet with a basic Google search:

Ubiquiti 120 Degree 5GHz MIMO 19dBi w/cables

\$129.44

Ubiquiti M5 802.11N MIMO 5 GHz Rocket AP (*may include POE device)

\$85.44

Ubiquiti P.O.E. Injector, 24VDC, 30W (*may be included with Rocket radio)

\$14.90

\$229.78 + tax

Other expenses:

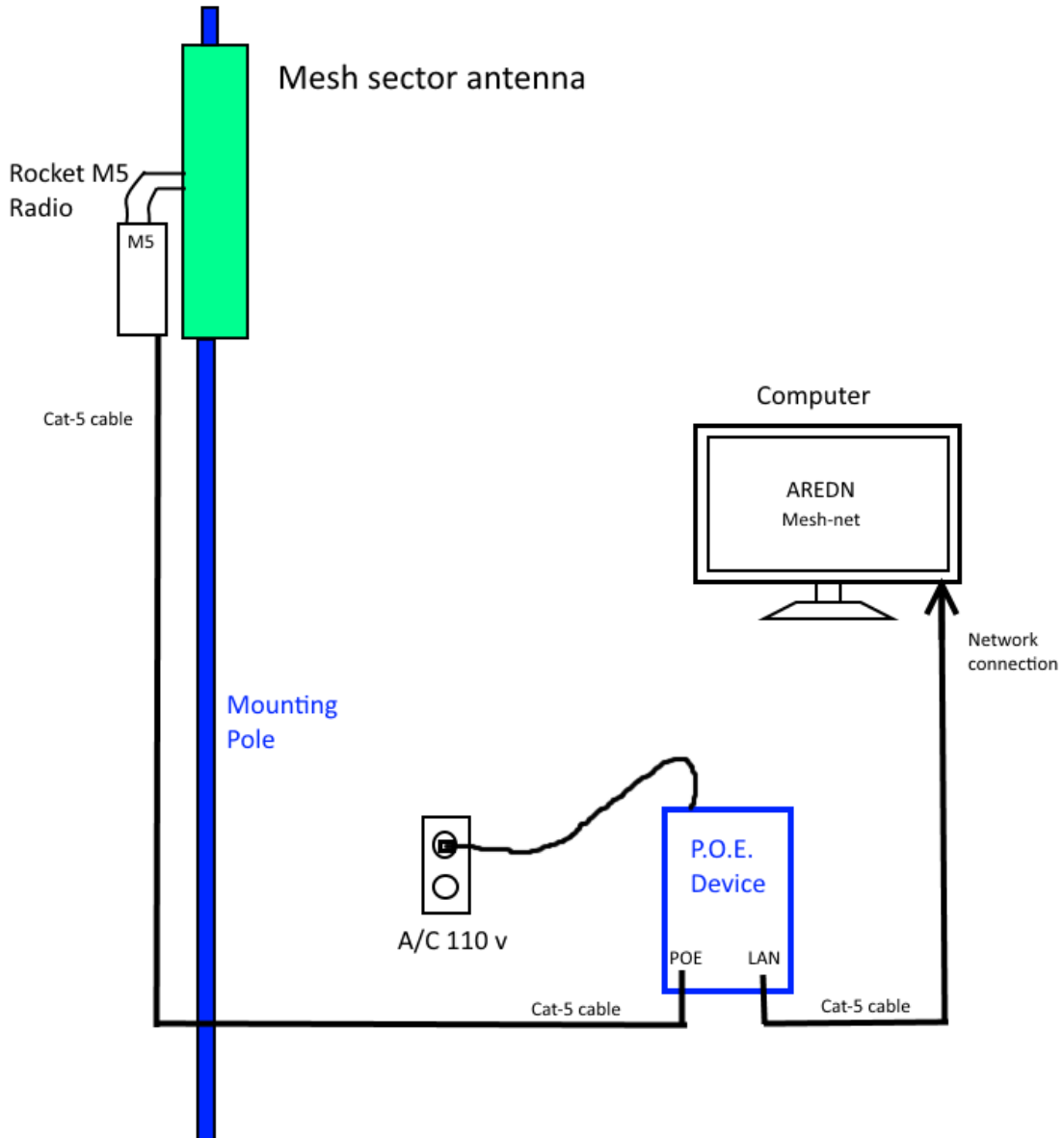
Cat-5e cable \$????

Mast for mounting \$????

Computer \$???

Mesh-Net Starter Kit for Base or Mobile Locations

Basic Diagram of Mesh equipment



Mesh-Net Starter Kit for Base or Mobile Locations

The Equipment:



1 120 deg sector



2 Rocket Radio



3 POE device *(may be included with Rocket)



4 Mounting mast

Mesh-Net Starter Kit for Base or Mobile Locations



5 Sector used mobile



6 Sectors mounted at Base