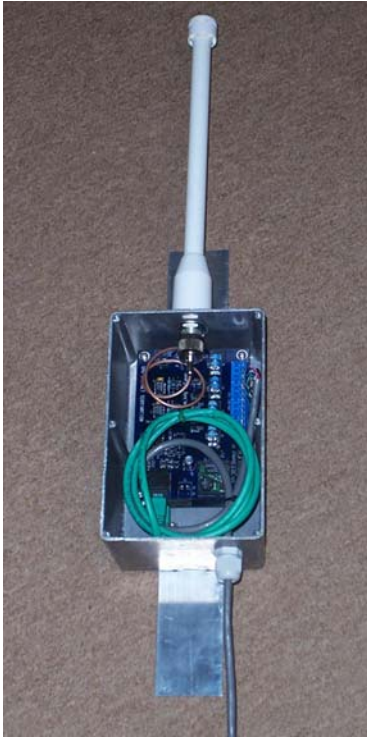




2.4 GHz RFM Modem for Point-to-Point Communications



The SAS-RFM is a pole mount, 2.4 GHz frequency hopping, spread spectrum radio modem used to provide wireless networks of the SAS-1 multi-lane traffic detector, T-Box cabinet processors, cabinet controllers, and remote sensors. The base station is typically used as the base station for a network of sensors providing data to a roadside cabinet controller. The SAS-RFM services up to 7 SAS-1's for real time intersection applications, and polls up 62 individual devices (SAS-1's, T-Box's) on the same network hopping pattern, with up to 40 different hopping patterns available to eliminate interference between adjacent networks. The SAS-RFM can be used back-to-back to provide relay of data in non-line of site applications.

The SAS-RFB with mounted whip antenna

General Specifications and Features:

- Housed in a metal, 7.4"x4.7"x3.25" enclosure
- RS-232 Serial interface, Asynchronous CMOS signal at 3.3v; 5v tolerant
- Operating Temperature -20°C to 70°C
- 7.5 to 24 VDC input
- Selectable 10 or 100 MW output, outdoor ranges of 3000 ft with a dipole to >20 miles with gain antenna
- 12 mA standby, 50 mA typical, 200 mA peak (Tx) current consumption
- I/O Data rates of up to 230 Kbps, software selectable
- Supports point-to-point and point-to-multipoint modes
- FCC and ETSI certified for license free operation
- Shown here as a sealed unit with integral omni-whip antenna with N-Connector