

assured communications[®]

RF-7800W-AT013

RAPIDLY DEPLOYABLE THREE-FOOT PARABOLIC GRID ANTENNA (4.4 – 5.0 GHz)

The RF-7800W-AT013 is a transportable three-foot grid antenna suited for rapid deployment and ease of use. The new 3-foot grid antenna offers a quick release feed horn that requires no tools for assembly. A quick release provides the flexibility to snap the antenna feed on or off during transport.

The RF-7800W-AT013 utilizes the universal mounting bracket that is supplied with the RF-7800W-OU440 Broadband Ethernet Radio. With this mount, the RF-7800W-AT013 antenna is a lightweight assembly that can be used with most portable and fixed tubular masts.

The radio bracket, included in the bundle with the radio, has been redesigned to allow the new 3-foot grid (and old) to be mounted like the rest of the cataloged antennas. This now simplifies the 3-foot grid antenna deployments and reduces the top load weight immensely. The antenna covers the frequency range 4.4 to 5 GHz which includes the public safety band.

The RF-7800W-AT013 is uniquely designed to get the most gain for its size and weight and can handle harsh environments, making it ideal for nomadic and fixed-ground stations.

The RF-7800W-AT013 can easily be mounted for horizontal or vertical polarization. This capability allows for collocation of multiple radios while minimizing interference.

With its exceptional gain, the RF-7800W-AT013 is the right antenna choice for medium to long range point-to-point and point-to-multipoint line-of-sight radio links.

Mast and radio not included.

Specifications for the RF-7800W-AT013

| Electrical | | |
|-------------------|--|--|
| Frequency Range | 4.4 to 5.0 GHz | |
| Gain | 29.8 dB (nominal) | |
| Impedance | 50 ohm (nominal) | |
| Polarization | Linear (Vertical or Horizontal) | |
| VSWR | 1.5:1 | |
| Radiation Pattern | Azimuth: 4.7° beam Elevation: 4.7° beam | |
| Front to Back | > 32 dB | |

| Environmental | | |
|-------------------|-------------------|--|
| Temperature | -40°C to +65°C | |
| Relative Humidity | 100% | |
| Wind | 125 MPH (201 KPH) | |

| Mechanical | | |
|--|--------------------|--|
| Dimensions | 36" (.9m) diameter | |
| Antenna Mount | Bracket mount | |
| Antenna Weight | 11 lbs (4.98 kg) | |
| Color | FED-STD-595B Green | |
| RF Connector | Type N Female | |
| | | |
| Features | | |
| Lightweight | | |
| High gain | | |
| Rotate 90° for horizontal polarization | | |
| Easy to deploy | | |

Radiation Pattern at 4.7 GHz



Polar Radiation Pattern at 4.7 GHz





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