

RF-7800W-AT003

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

The RF-7800W-AT003 is a transportable three-foot grid antenna suited for rapid deployment and ease of use. The mounting bracket allows for the RF-7800W radio to be mounted behind the antenna, reducing the antenna profile (reducing wind loading) and minimizing the RF cable length. The antenna covers the frequency range 4.4 to 5 GHz which includes the public safety band.

The RF-7800W-AT003 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-AT003 can easily be mounted for horizontal or vertical polarization. This capability allows for collocation of multiple radios while minimizing interference.

The RF-7800W-AT003 is supplied with a compression clamp assembly that can be used with most tubular masts. Installation takes only a few minutes using standard hand tools. The clamp assembly allows for elevation and azimuth adjustment.

With its exceptional gain, the RF-7800W-AT003 is the right antenna choice for medium to long range point-to-point line-of-sight radio links.



Mast and radio not included.



Specifications for the RF-7800W-AT003

Electrical

Frequency Range	4.4 to 5.0 GHz
Gain	29 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)

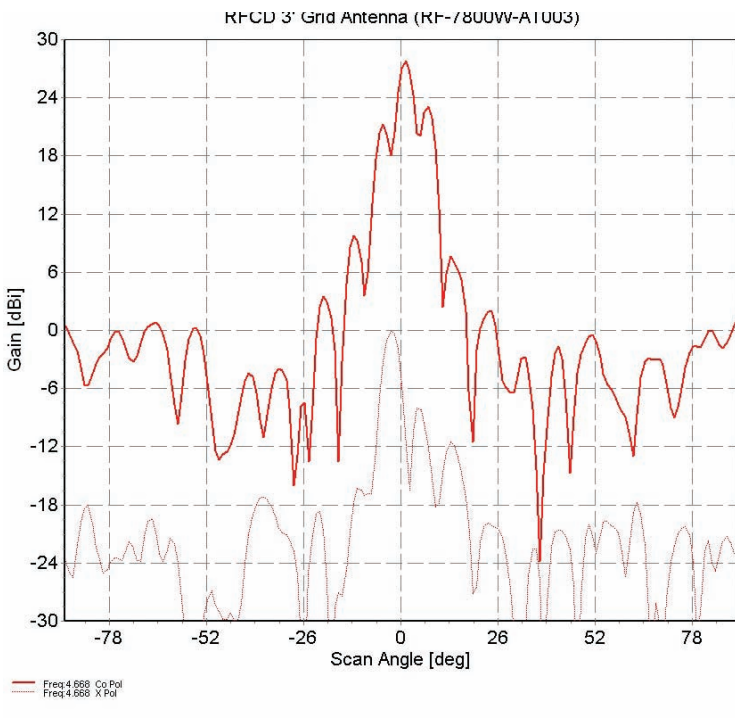
Mechanical

Dimensions	36" (.9m) diameter
Antenna Mount	Bracket mount
Antenna Weight	13 lbs. (6 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

