

RF-7800W-AT001**RAPIDLY DEPLOYABLE
ONE-FOOT PANEL ANTENNA**

The RF-7800W-AT001 is a transportable one-foot panel antenna suited for rapid deployment and ease of use. The mounting studs allow for the RF-7800W radio to be mounted directly to the antenna, reducing the antenna and radio profile (reducing wind loading) and minimizing the RF cable length. The antenna covers the frequency range 4.4 to 5 GHz (NATO Band IV) which includes the public safety band.

The RF-7800W-AT001 is uniquely designed to get the most gain for its size and weight and can handle harsh environments, making it ideal for nomadic ground stations.

The RF-7800W-AT001 can easily be mounted for horizontal or vertical polarization. This capability allows for collocation of multiple radios while minimizing interference.

The RF-7800W-AT001 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 adjustment.

Compact and lightweight, the RF-7800W-AT001 is the right antenna choice when there is a need for quick deployment.

Mast and radio not included.



Electrical

Frequency Range	4.4 to 5.0 GHz
Gain	21 dB (nominal)
Impedance	50 ohm (nominal)
Polarization	Linear (vertical or horizontal)
VSWR	1.5:1
Radiation Pattern	Azimuth: 14° beam Elevation: 14° beam
Front to Back	> 40 dB

Environmental

Temperature	-40°C to +60°C
Relative Humidity	90% non-condensing at 50°C
Wind	137 MPH (220 KPH)

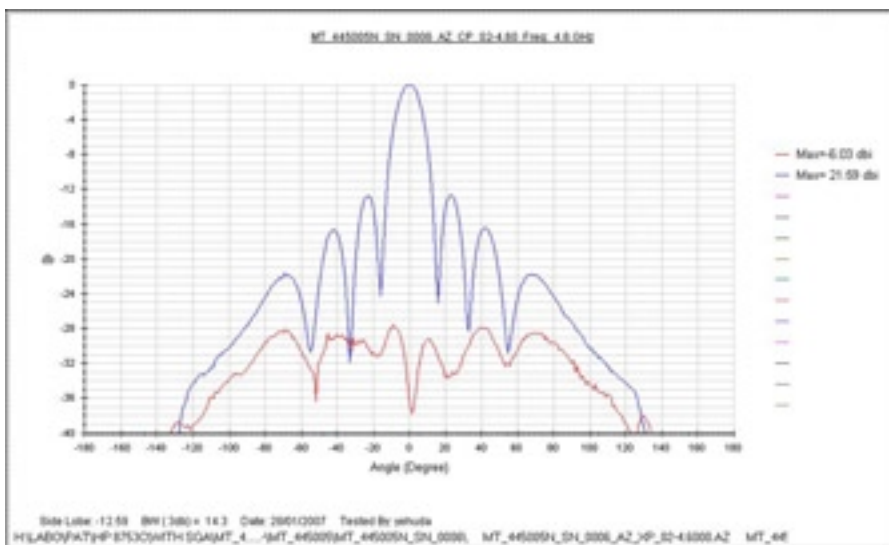
Mechanical

Dimensions	12”L x 12”H x 0.9”D
Antenna Mount	Direct radio or bracket mount
Antenna Weight	2.65 lbs. (1.2 kg)
Color	FED-STD-595B Green
RF Connector	Type N Female

Features

- Lightweight
- High gain
- Rotate 90° for horizontal polarization
- Easy to deploy

Azimuth Radiation Pattern at 4.6 GHz



Elevation Radiation Pattern at 4.6 GHz

