

## **assured** communications \*

# RF-7800W-AT001

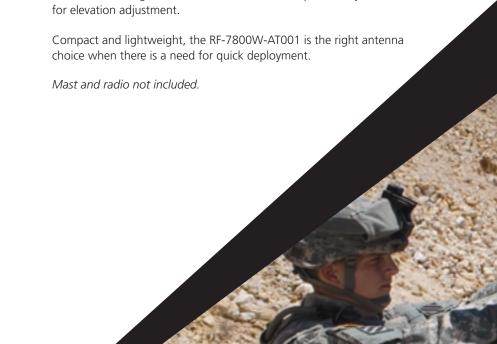
RAPIDLY DEPLOYABLE
ONE-FOOT PANEL ANTENNA

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.



## Specifications for the RF-7800W-AT001

## **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:

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)

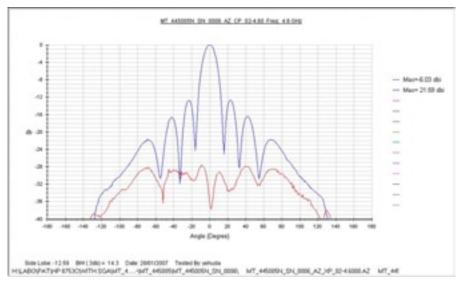
Color FED-STD-595B Green

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**

