



RAPIDLY DEPLOYABLE THREE-FOOT PARABOLIC ANTENNA (4.4 - 5.875 GHz)

RF-7800W-AT203

FEATURES

- > Easy to deploy
- > Lightweight, rugged design
- > Dual Polarization
- > Dual Band Frequency Support

The RF-7800W-AT203 is a transportable three-foot antenna suited for rapid deployment and ease of use designed specifically for use with the Harris 7800W Multi-Mission HCLOS radio. The antenna offers a quick release antenna feed that requires no tools for assembly and provides the flexibility to snap the antenna feed on or off during transport. The three foot antenna utilizes the universal mounting bracket that is supplied with the RF-7800W Multi-Mission HCLOS. With this mount, the RF-7800W-AT203 antenna is a lightweight assembly that can be used with most portable and fixed tubular masts. The rapidly deployable antenna 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-AT203 covers the frequency range 4.4 to 5.875 GHz, which includes NATO Band IV, public safety, ISM, and unlicensed bands. The antenna has two RF connectors and is horizontally and vertically polarized. This capability supports the Multiple Input Multiple Output (MIMO) function of the RF-7800W Multi-Mission HCLOS. With its exceptional gain, the RF-7800W-AT203 is the right antenna choice for medium to long range point-to-point (PTP) and point-to-multipoint (PMP) line-of-sight radio links.

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SPECIFICATIONS FOR: RF-7800W-AT203

ELECTRICAL

Frequency Range	4.4 to 5,875 GHz
Gain	30.0 dBi (nominal)
Impedance	50 ohm (nominal)
Polarization	Dual linear (Vertical and Horizontal)
VSWR	2.0:1 Max
Radiation Pattern	Azimuth: 4.0° beam nominal Elevation: 4.0° beam nominal
Front to Back	> 30 dB isolation
Port to Port	> 28 dB isolation
Cross Polarization	> 20 dB isolation

SPECIFICATIONS

Dimensions	37" (.94m) diameter
Color	FED-STD-595C Green

ENVIRONMENTAL

Temperature	-40°C to +70°C MIL-STD-810G
Relative Humidity	100% MIL-STD-810G
Wind	125 MPH (201 KPH)
Vibration	CAT5 Loose cargo MIL-STD-810G
Shock	MIL-STD-810G
Salt Fog	MIL-STD-810G
Sand and Dust	MIL-STD-810G

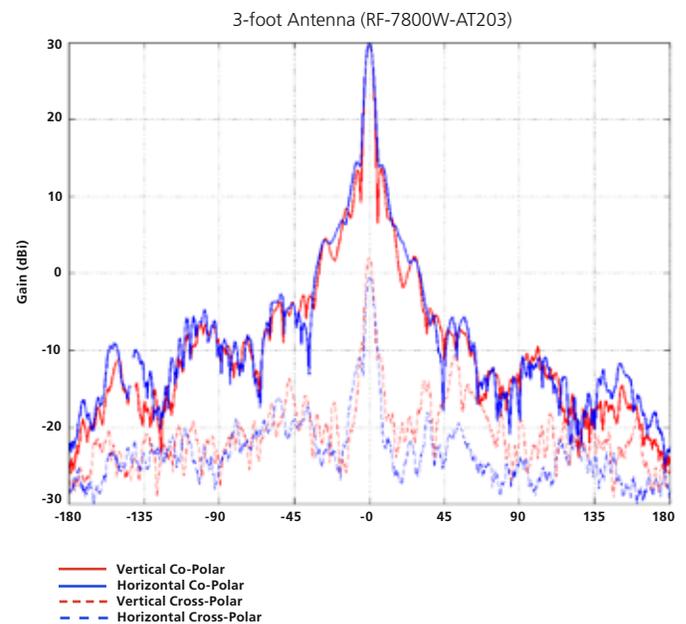
MECHANICAL

Antenna Mount	Bracket mount is supplied with the RF-7800W Multi-Mission HCL0S radio
Antenna Weight	Less than 12.5 lbs./5.67 kg
RF Connector	Type N Female (2)

FEATURES

- Lightweight, rugged design
- High gain
- Dual linear MIMO support
- Easy to deploy

Average Band Radiation Pattern



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