



RAPIDLY DEPLOYABLE 90 DEGREE SECTOR ANTENNA (4.4-5.875 GHZ)

RF-7800W-AT207

FEATURES

- > Easy to Deploy
- > Lightweight, rugged design
- > Dual polarization
- > Dual band frequency support
- > High gain
- > MIMO support

The RF-7800W-AT207 is a transportable 90° sector antenna suited for rapid deployment and ease of use. The antenna covers the frequency range of 4.4 to 5.875 GHz which includes NATO Band IV, public safety, ISM, and unlicensed bands.

The RF-7800W-AT207 has two RF feeds and is both horizontally and vertically polarized. This supports the Multiple Input, Multiple Output (MIMO) function of the RF-7800W Multi-mission HCLOS radios.

The RF-7800W-AT207 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. Compact and lightweight, the RF-7800W-AT207 is the right antenna choice when there is a need for quick deployment at ranges up to 25km.

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SPECIFICATIONS FOR: RF-7800W-AT207

ELECTRICAL

Frequency range	4.4 to 5.875 GHz
Gain	14.0 dBi nominal
Impedance	50 Ohm (nominal)
Polarization	Dual Linear (Horizontal and Vertical)
VSWR	2.0:1 max
Radiation Pattern	90° beamwidth (H and V) 8' elevation
Front to back	>25 dB isolation
Port to Port	>30 dB isolation
Cross Polarization	>20 dB separation

SPECIFICATIONS

Dimensions	18.75 inches x 10 inches x 1.25 inches (48 cm x 25 cm x 3 cm)
Antenna Mount	Bracket mount
Antenna weight	3.75 lbs (1.70 kg)
Color	FED-STD-595C Green
RF Connector	Type N Female (2)

ENVIRONMENTAL

Temperature	-40° C to 60° C MIL-STD-810G (operational)
Relative Humidity	95% MIL-STD-810G
Vibration	Cat 5 Loose Cargo MIL-STD-810G
Shock	MIL-STD-810G
Salt Fog	MIL-STD-810G
Sand and Dust	MIL-STD-810G
Wind	125 MPH (201 KPH)

PLOTS

Average Band Radiation Pattern



Harris Corporation
RF Communications Division
1680 University Avenue
Rochester, NY 14610, USA

585-244-5830

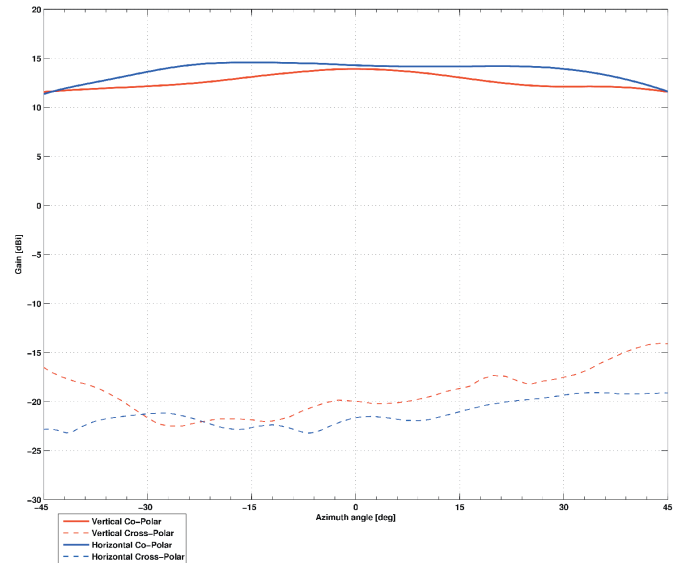
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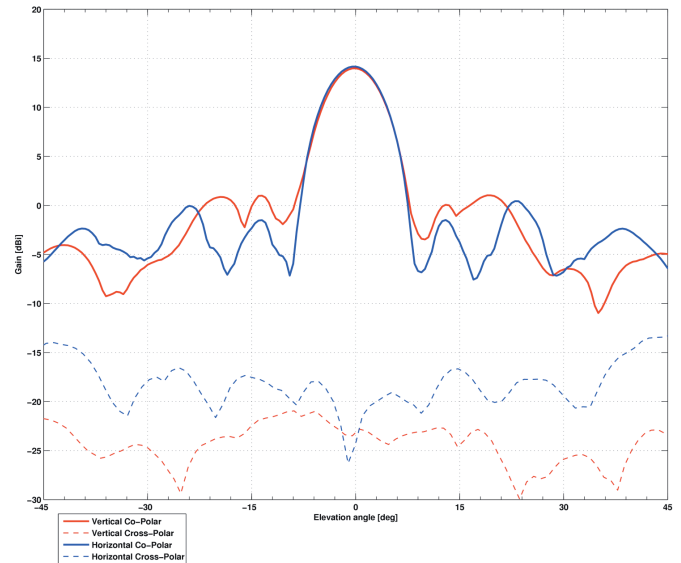
PLOTS

Average Band Radiation Pattern

90° Sector Antenna (RF-7800W-AT207) Azimuth Gain



90° Sector Antenna (RF-7800W-AT207) Elevation Gain



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