

# RF-7800W-AT205

## 120-degree Sector Antenna

| ELECTRICAL         |                                       |
|--------------------|---------------------------------------|
| Frequency Range    | 4.4 to 5.875 GHz                      |
| Gain               | 12 dBi (nominal)                      |
| Impedance          | 50 Ohm (nominal)                      |
| Polarization       | Dual linear (horizontal and vertical) |
| VSWR               | 2.0:1 max                             |
| Radiation Pattern  | 120° beamwidth 8° elevation           |
| Front to back      | >20 dB isolation                      |
| Port to Port       | >30 dB isolation                      |
| Cross Polarization | >20 dB separation                     |

| PHYSICAL       |                                                        |
|----------------|--------------------------------------------------------|
| Dimensions     | 25 H x 7.32 W x 3.61 D in (63.4 H x 18.6 W x 9.2 D cm) |
| Antenna Weight | 5 lbs (2.27 kg)                                        |
| Antenna Mount  | Bracket mount                                          |
| Color          | FED-STD-595C Green                                     |
| RF Connector   | Type N Female (2)                                      |

| ENVIRONMENTAL     |                                                            |
|-------------------|------------------------------------------------------------|
| Temperature       | -40°F to 140°F (-40°C to +60°C) MIL-STD-810G (operational) |
| Relative Humidity | 95% 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                                               |



The RF-7800W-AT205 120° Sector Antenna is engineered to deliver the most gain for its size and weight. The antenna is ruggedized to withstand harsh environments, making it ideal for nomadic ground stations. Compact and lightweight, the RF-7800W-AT205 is easy to use and supports rapid deployment at ranges of up to 25 km. The antenna covers the 4.4 to 5.875 GHz frequency range, which includes NATO Band IV, public safety, ISM and unlicensed bands. This transportable solution has two RF feeds and is both horizontally and vertically polarized, supporting the Multiple Input, Multiple Output function of the RF-7800W Multimission High-Capacity Line-Of-Sight radios.

### Non-Export Controlled Information

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