L3HARRIS™
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# RF-7800W-AT207

## 90-degree Sector Antenna

| ELECTRICAL | |
|---|---|
| **Frequency Range** | 4.4 to 5.875 GHz |
| **Gain** | 13.5 dBi nominal |
| **Impedance** | 50 Ohm (nominal) |
| **Polarization** | Dual linear (horizontal and vertical) |
| **VSWR** | 2.0 max |
| **Radiation Pattern** | 90° (H and V) 8° elevation |
| **Port to Port** | >30 dB isolation |
| **Cross Polarization** | >20 dB separation |

| PHYSICAL | |
|---|---|
| **Dimensions** | 18.75 H x 10 W x 1.25 D in (47.63 H x 25.4 W x 3.18 D cm) |
| **Antenna Weight** | 3.75 lbs (1.7 kg) |
| **Antenna Mount** | Bracket mount |
| **Color** | FED-STD-595C Green |
| **RF Connector** | Type N Female (2) |

| ENVIRONMENTAL | |
|---|---|
| **Temperature** | -40°F to 158°F (-40°C to +70°C) MIL-STD-810G (storage)<br>-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 L3Harris RF-7800W-AT207 90-degree Sector Antenna is engineered to get the most gain for its size and weight. Lightweight and easy to use, this antenna is ideal for rapid deployment during mobile operations with communications ranges up to 25 km. The RF-7800W-AT207 covers frequency ranges of 4.4 to 5.875 GHz, including NATO Band IV, public safety, ISM and various unlicensed bands. This versatile solution has two RF feeds, is horizontally and vertically polarized and supports the MIMO function of the L3Harris Falcon III® Multimission High-Capacity Line-Of-Sight Radio.




**Non-Export Controlled Information**

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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