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RF-7800W-AT30X

Electronically Beam-Steered Smart Antenna

GENERAL	
Frequency Range	4.4 - 5.875 GHz
GPS	Integrated GPS Antenna

ELECTRICAL	
Gain	14 dBi
Impedance	50 ohms
Polarization	Dual-orthogonal, linear polarized (vertical and horizontal)
Radiation coverage	360°
Beam Pattern	30° azimuth and 18° elevation (nominal)
EMC Emissions	MIL-STD-461

PHYSICAL	
Dimensions	12.75 H x 13.6 D in (32.4 H x 34.48 D cm)
Weight	12.1 lbs (5.48 kg)
Color/Finish	Green, Tan, Gray

ENVIRONMENTAL	
Temperature	MIL-STD-810G –40°F to +140°F (–40°C to +60°C)
Shock and Vibration	MIL-STD-810G (ground and maritime vehicle; loose cargo)
Sand/Dust/Salt/Fog/Rain	MIL-STD-810G
Humidity	MIL-STD-810G
Wind	100 mph

The RF-7800W-AT30X is an electronically-steered solution providing full 360° coverage. Designed for use with L3Harris Falcon III® RF-7800W and RF-7850W tactical radios, this Smart Antenna delivers dramatically improved throughput for forces on the move and at quick halt. Elements on the outer edge of the RF-7800W-AT30X are controlled by the radio, supporting dynamic selection of a focused beam for consistent high throughput connection to one or multiple radios. This integrated radio control provides improved Signal-to-Noise Ratio when directing links to subscribers. Lightweight and easy to install, the Smart Antenna uses existing NATO four-hole mounts.

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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