



L3HARRIS®
FAST. FORWARD.

RF-9800W-AT610

On-The-Move Omnidirectional Antenna

ELECTRICAL	
Frequency range	1.35-2.70 GHz
Gain (nominal)	3.5 dBi
Impedance (nominal)	50 ohms
Polarization	Dual linear ohms (horizontal and vertical)
Radiation Azimuth Pattern	360° azimuth coverage; 3 dB elevation beamwidth: 14° minimum, 18° typical
Elevation Radiation Pattern	± 7° min
Port-to-Port isolation	>30 dB
Cross Polarization	14 dB minimum, 20 dB typical at boresight
PHYSICAL	
Dimensions	Antenna shall measure 42.72±0.4 inches (1085±10 mm) in height 3.2±0.1 inches (81.3±2.5 mm) in diameter except for the base 5.2±0.1 inches (140±2.5 mm) in diameter at its widest point
Mount	Bracket mount
Weight	Antenna (base and whip combined) weighs 8.16 ± 0.88 lbs (3.7 ± 0.4 kg)
Color	FS 34094 Green (-01) with markings in FS 33446 White ink
RF Connector	Type N Female (Qty. 2)
ENVIRONMENTAL	
Operational Temperature	-40°F to 140°F (-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 (Operational)	100 mph (160 km/h)
Wind (Survival)	120 mph (201 km/h)



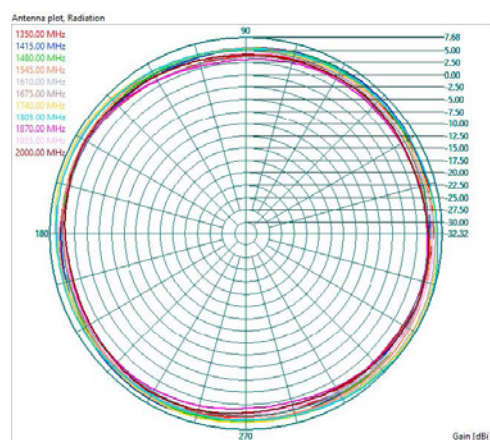
The RF-9800W-AT610 is a compact mobile antenna operating across 1.35 to 2.70 GHz and covering NATO Band III. It features dual RF feeds with horizontal and vertical polarization, enabling high-gain performance and full MIMO support for RF-9800W Multimission HCLOS radios.

Engineered to maximize performance while minimizing size and weight, the antenna is ruggedized for harsh operating environments and demanding mission profiles. Its lightweight, low-profile form factor enables easy vehicle integration, making it an ideal solution for on-the-move communications and mobile tactical deployments.

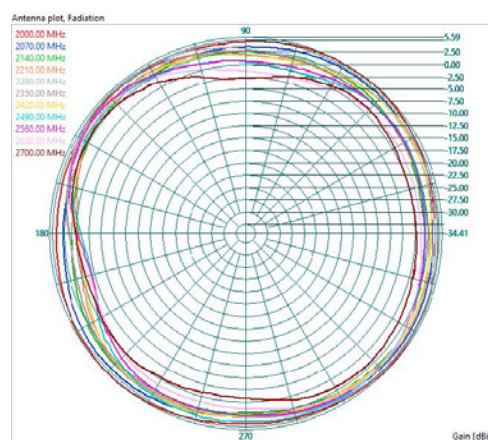
Dimensions and Connectors



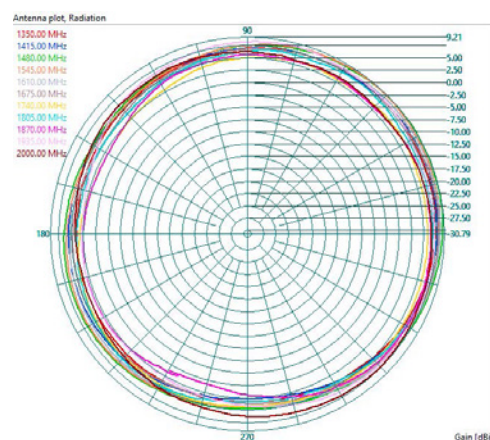
Horizontal port, horizon



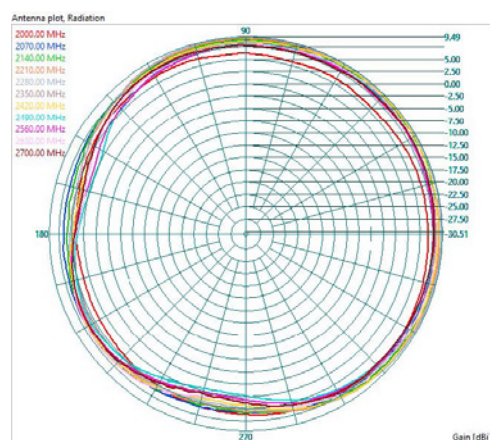
Horizontal port, horizon



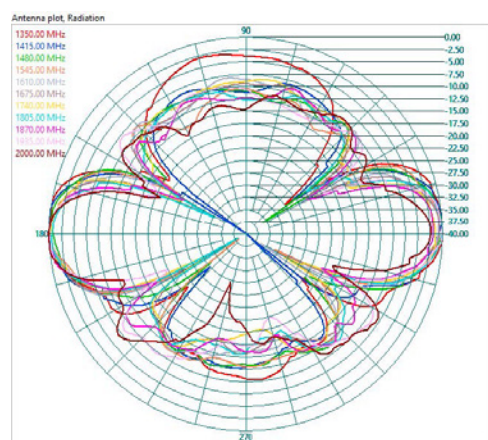
Vertical port, horizon



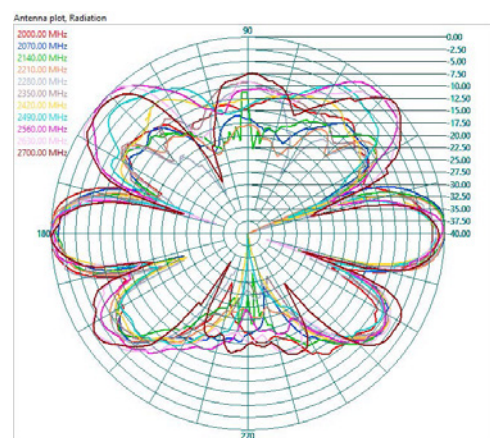
Vertical port, horizon



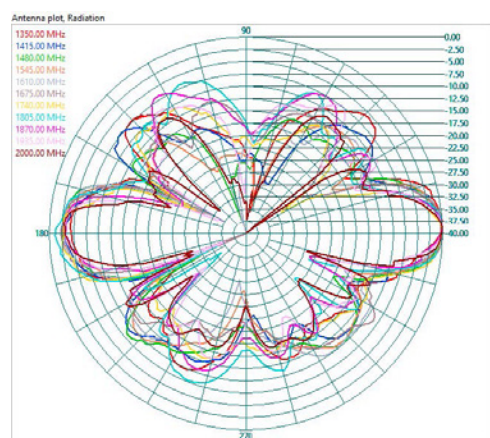
Horizontal port, elevation



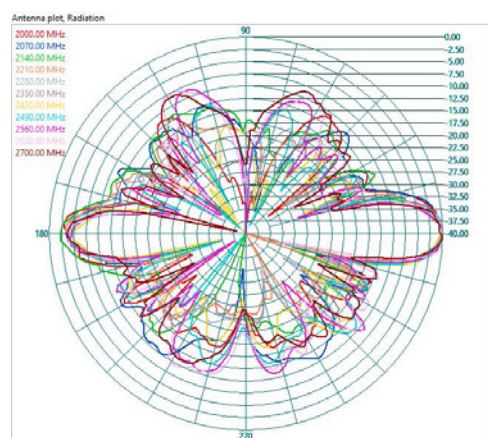
Horizontal port, elevation



Vertical port, elevation



Vertical port, elevation



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