

	High Gain Wideband NATO Band III+ Tactical Radio Relay Antenna		
	APT-1327-3	1350-2700 MHz	18-24 dBi Gain

High Gain Wideband NATO Band III+ Tactical Antenna: The **APT-1327-3** tactical microwave grid parabolic antenna delivers ultra-wideband **broadband wireless connectivity** across the complete 1350–2700 MHz NATO Band III+ frequency range. Featuring a 0.95-meter (3-foot) reflector, this high-performance **directional microwave antenna** generates a progressive isotropic gain of **18/21/24 dBi** and **17°/11°/8° half-power beam-widths** to maximize long-range **line-of-sight (LOS) data transmission**. Engineered to eliminate signal interference in crowded electromagnetic environments, it supports easily adjustable vertical or horizontal linear polarization, maintains a high **25 dB front-to-back ratio**, and handles **150 watts of RF power** via a 50-ohm N-female termination, establishing it as a core component for mission-critical **telecommunications infrastructure** and tactical radio relay nodes.

MIL-SPEC Weatherproof Telecom Hardware: Manufactured from corrosion-resistant 6063T6 aluminum alloy and marine-grade stainless steel hardware, this **heavy-duty military hardware** features an olive green anti-corrosive powder coating alongside an ABS-housed, **completely sealed radome dipole feed**. The **IP67-rated grid antenna** meets stringent **MIL-STD-810F engineering standards**, ensuring flawless survivability against extreme temperatures from **-40°C to +70°C**, high humidity, **40G mechanical shock**, and torrential rainfall. Designed for rapid, single-operator installation onto standard mast pipes from 38mm to 77mm using a quick-fastener feed horn system, it is wind-rated up to 180 Km/Hr with radial ice to guarantee continuous **RF signal integrity** and network uptime during harsh field operations.



Electrical Specifications:

Frequency Range	1350 - 2700 MHz.
Gain - @ Low/Mid/High Band	18/21/24 dBi.
Bandwidth	Entire 1350-2700MHz Band
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Vertical Beamwidth –3dB @ Low/Mid/High Band	17/11/8 Degrees
VSWR – Better Than	2.0:1
RF Power Handling Capacity	150 Watts.
Input Termination	N-Female

Mechanical Specifications:

Materials Used	6063T6 Aluminum Alloy
Mounting Hardware -Materials	High Grade Stainless Steel
Wind Rating	200 Km/Hr.
Elevation Tracking	+/- 10 Degrees
Radiating Element Materials	High Quality Brass
Support Pipe Materials	Aluminum Pipe 1” (25.4mm)
Diameter of Parabolic Reflector	0.95 Meters (3 feet)
Grid Members Materials	Aluminum Pipe ½” (12.7mm)
Gross Weight	9 Kgs with Brackets
Final Finish/Color	Olive Green or Customized
Maximum Mount Pipe Diameter	52mm (2 Inches)
IP Rating	IP67 Rating

Environmental Specifications:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Please contact us for further information like Azimuth & Elevation radiation patterns, Image and frequency Vs VSWR graph.

Note: All information contained in the datasheet is subject to change without any prior notice.