

	Tactical Radio Relay Nato Band IV Grid Parabolic Antenna		
	APT-4734	4400-5000 MHz	33.5 dBi Gain

NATO Band-IV Tactical Microwave Grid Antenna: The **APT-4734 tactical microwave grid parabolic antenna** provides ultra-high performance across the 4400–5000 MHz frequency range, covering the complete **NATO Band-IV spectrum**. Engineered for conventional radio relay systems, this 1.6-meter directional reflector delivers an impressive **33.5 dBi mid-band isotropic gain** with a tight **3.0-degree half-power beamwidth** for pinpoint wireless backhaul accuracy. The specialized grid configuration maximizes **front-to-back ratios to 32 dB**, preventing co-sited interference in crowded **electromagnetic spectrums**. Optimized for high-capacity military communication, it supports standard linear polarization adjustments, integrates a integrated **+/-5 degrees elevation tracking** mechanism, and handles up to **100W RF power** via an N-Female input termination.

MIL-STD-810G Compliant Ruggedized C-Band Hardware: Built to withstand **severe environmental** conditions, this heavy-duty 22 Kg tactical antenna features 6063T6 architectural anodized aluminum alloy fabrication and **marine-grade stainless steel** hardware. The structure is finished with a powder-coated olive green anti-corrosive layer, granting robust immunity to **salt fog, heavy rain, and high humidity** under strict **MIL-STD-810G** test standards. It operates safely in extreme thermal conditions ranging from **-30°C to +70°C** and maintains structural integrity against severe wind ratings up to **160 Km/Hr**. Featuring a quick-fastener primary feed system for straightforward two-operator deployment, the antenna mounts securely onto standard 52mm masts and provides a **low-resistance DC ground path** for comprehensive **lightning protection**.



Electrical Specifications:

Frequency Range	4400 - 5000 MHz.
Gain - Typical	33.5 dBi
Bandwidth	Entire 4.4-5.0 GHz Band
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Vertical Beam-width –Half Power Points.	3 Degrees Typical
VSWR – Better Than	2.0:1
RF Power Handling Capacity	100 Watts.
Input Termination	N-Female

Mechanical Specifications:

Materials Used	6063T6 Aluminum Alloy
Mounting Hardware -Materials	High Grade Stainless Steel
Wind Rating	160 Km/Hr.
Elevation Tracking	+/-5 Degrees
Radiating Element Materials	High Quality Brass
Support Pipe Materials	Aluminum Pipe 1” (25.4mm)
Diameter of Parabolic Reflector	1.6 Meters (5+ feet)
Grid Members Materials	Aluminum Pipe ½” (12.7mm)
Gross Weight	22 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.