

	Tactical Radio Relay Nato Band IV Grid Parabolic Antenna		
	APT-4732	4400-5000 MHz	31.5 dBi Gain

High-Capacity Tactical NATO Band IV Microwave Antenna: The **APT-4732 tactical microwave grid parabolic antenna** provides exceptional **broadband wireless connectivity** for critical long-range communications across the 4400–5000 MHz frequency spectrum. Optimized with an expanded 1.3-meter reflector, this high-gain **directional C-band antenna** delivers a powerful 31.5 dBi mid-band gain and a highly focused 3.5-degree half-power beam-width to ensure precise **line-of-sight (LOS) data transmission**. Designed to mitigate co-sited interference in crowded electromagnetic spectrums, it supports field-adjustable vertical or horizontal linear polarization, a 30 dB front-to-back ratio, and 100W CW power handling via an N-female termination, making it a vital asset for robust military **telecommunications infrastructure** and radio relay networks.

MIL-SPEC Weatherproof Telecom Hardware: Constructed with ultra-durable 6063T6 anodized aluminum alloy and marine-grade stainless steel hardware, this **heavy-duty military hardware** features an army olive green finish engineered for extreme environmental survival. The **weatherproof grid antenna** is fully certified to **MIL-STD-810G engineering standards**, offering total resilience against severe temperatures from -40°C to +80°C, high humidity, shock, torrential rain, and corrosive salt fog. Built for rapid single-operator field deployment on standard 52mm masts with a secure quick-fastener primary feed horn, it boasts an impressive 200 Km/Hr wind rating to ensure uninterrupted **RF signal integrity** and network uptime during severe weather anomalies.



Electrical Specifications:

Frequency Range	4400 - 5000 MHz.
Gain - Typical	31.5 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.	3.5 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	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	1.3 Meters (4+ feet)
Grid Members Materials	Aluminum Pipe ½” (12.7mm)
Gross Weight	12 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.