

Vehicle-Mount Wireless High-Power Antenna

1520 – 2630 MHz

Product Code: OMNI-A0322

VERSION: 1.0

SPECIFICATIONS:



Electrical:	
Frequency range	1520 – 2630 MHz
Gain	See graph
Azimuth pattern	Omni, 3 dB ripple
Elevation pattern	Narrow beam
Polarisation	Vertical
Nominal input impedance	50 Ω
VSWR	< 2.5:1
Power handling	50 W CW
Connector	N-type male at base
Groundplane requirements	Groundplane independent
Mechanical:	
Dimensions (l x d)	700 mm x 35 mm
Base diameter	135 mm
Total mass	< 1 kg
Mounting	NATO base flange, 4 and 6 holes
Colour	Black, others on request
Environmental: designed to meet the following specifications	
Temperature range	Storage: -41 °C to +71 °C Operation: -31 °C to +55 °C
Weatherproofing	IP66 water resistant (when mounted on a connector)
Shock and vibration	MIL-STD-810E 516.4: vibration category 8, shock 40 g
Exposed materials	Painted fibreglass Powder-coated aluminium

PRODUCT FEATURES:

- High gain communications high-power antenna
- Proven flexible base spring protects the antenna
- Omni-directional H-plane (azimuth) pattern

APPLICATIONS:

- Intercepting of radio-controlled improvised explosive device (RCIED) signals
- Convoy protection

PRODUCT DESCRIPTION:

The OMNI-A0322 banded-antenna is for intercepting of wireless communications in the 1520 to 2630 MHz frequency band. It is mounted using a NATO base flange, with a spring for shock absorption and flexibility. A glass-fibre tube contains the antenna RF board.

The feed point is elevated about 500 mm from the base of the antenna, allowing the signal to be radiated over the user's head. This reduces absorbed power and increases field strength at the target.

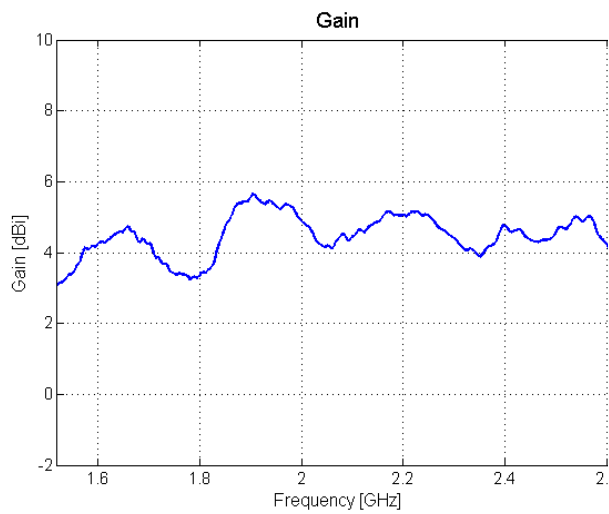
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