

Vehicle-Mount Wireless High-Power Antenna

850 – 2500 MHz

Product Code: OMNI-A0144

VERSION: 1.9

SPECIFICATIONS:



Electrical:	
Frequency range	850 – 960 MHz; 1700 – 2500 MHz
Gain	3 – 4 dBi typical (in band)
Azimuth pattern	Omni, 3 dB ripple
Elevation pattern	Narrow beam
Polarisation	Vertical
Nominal impedance	50 Ω
VSWR	< 2.5:1 or better
Power handling:	
850 – 2200 MHz	70 W CW
2200 – 2500 MHz	50 W CW
Connector	N-type female at base
Groundplane requirements	Groundplane independent
Mechanical:	
Dimensions (l x d)	700 mm x 35 mm
Base diameter	135 mm
Total mass	< 1kg
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	IP67 water resistant (when flange is mounted)
Shock and vibration	MIL-STD-810E 516.4: Vibration category 8, shock 40 g
Exposed materials	Painted e-glass Anodized aluminium E-coated steel

PRODUCT FEATURES:

- High gain communications signal interception antenna
- Covers all handheld wireless bands
- Proven flexible base spring protects the antenna

PRODUCT OVERVIEW:

This multi frequency banded antenna is for interception of wireless communications. It is mounted using a NATO base flange, with a spring for shock absorption and flexibility. An e-glass tube contains the antenna RF board.

The array covers the GSM 900, PCS, UMTS/3G and WLAN bands. Full-specification coverage starts at 850 MHz, but there will be reduced performance down to 500 MHz. A 2-stack array of multi-band dipoles is used to provide gain at these frequencies, with a small down tilt to improve close-in coverage.

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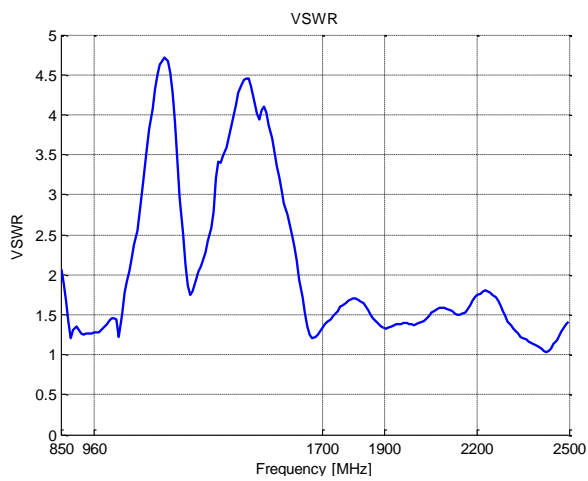
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Measured VSWR and gain graphs:

Typical VSWR:



GAIN:

