

# Vehicle-Mount Wireless Interception Antenna

850 – 2500 MHz

Product Code: OMNI-A0243

VERSION: 1.2

## SPECIFICATIONS:



<b>Electrical:</b>	
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 $\Omega$
VSWR	< 2.5:1 or better
Power handling	100 W CW
Connector	N-type female at base
Groundplane requirements	Groundplane independent
<b>Mechanical:</b>	
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
<b>Environmental: designed to meet the following specifications</b>	
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 Gun-coated stainless steel

## PRODUCT FEATURES:

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

## PRODUCT OVERVIEW:

This multi-frequency banded antenna is for high-power wireless communications. It is mounted on an N-type connector base, 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. 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.

# Vehicle-Mount Wireless Interception Antenna

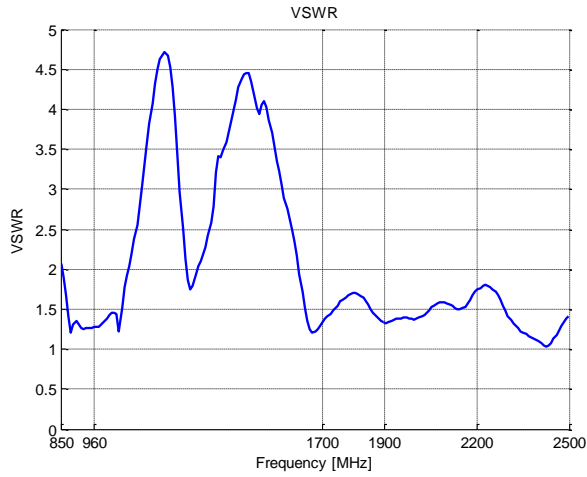
850 – 2500 MHz

Product Code: OMNI-A0243

VERSION: 1.2

Measured VSWR and gain graphs:

Typical VSWR:



Gain:

