

# Compact Vehicular Monitoring Antenna

20 – 6000 MHz

Product Code: OMNI-A0244

VERSION: 1.5

## SPECIFICATIONS:



<b>Product codes:</b>		
OMNI-A0244	Active version including amplifier	
OMNI-A0244-02	Passive version	
<b>Electrical:</b>	<b>OMNI-A0244</b>	<b>OMNI-A0244-02</b>
Frequency range	20 – 6000 MHz, gain drops off below 80 MHz	
Polarisation	Vertical	
VSWR	< 2.5:1 typical (active version)	
Nominal input impedance	50 Ω	
Internal construction	2 x bi-conical antennas with diplexer	
Connectors	1 x N-type female	
E-plane beamwidth	60° nominal	
H-plane beamwidth	360°	
Azimuth ripple	< 6 dB	
Groundplane requirements	Groundplane independent	
DC voltage supply	15 ± 1 VDC	-
Supply current	< 150 mA	-
Amplifier gain	10 dB nominal	-
<b>Mechanical:</b>		
Dimensions (l x d)	475 mm x 102 mm	
Base diameter	135 mm	
Total mass	< 2.5kg	
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 +70 °C	
Ingress rating	IP65 water resistant (when flange is mounted)	
Shock and vibration	MIL-STD-810G 516.4: Vibration category 8, shock 40 g	

## PRODUCT OVERVIEW:

The OMNI-A0244 is a compact vehicle-mount monitoring antenna. Supplied in both active and passive versions, it allows monitoring over the full 20 to 6000 MHz band. It is mounted on an N-type connector base, with a spring for shock absorption and flexibility.

The active version of the antenna includes a nominal 10 dB amplifier to help overcome cable loss. The passive version has no amplifier, and is less expensive, and has no dynamic range limitations.

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## GAIN AND FIELD STRENGTH SENSITIVITY GRAPHS:

