



PRODUCT DESCRIPTION:

This wideband monitoring OMNI antenna is designed for a monitoring or receive only function over a wide frequency band of 20 to 3000 MHz. It has a very rugged construction and can be mounted on a shelter roof or elevated ground plane.

The antenna provides excellent gain and VSWR over the full-band with no lossy matching network being used. The antenna structure is designed to work over the full frequency range, giving maximum radiation, and allowing the whips to be removed for extended periods of transportation.

PRODUCT FEATURES:

- Wide bandwidth covered in a single antenna
- Low VSWR, high gain over the band
- Passive construction

SPECIFICATIONS:

Product codes:	
OMNI-A0068-01**	Wideband monitoring antenna with naval environmental specifications
Electrical:	
Frequency range	20 – 3000 MHz
VSWR	< 3:1 over 90% of the band
Nominal input impedance	50 Ω
Connector	N-type female
Feed power handling	Receive only
Gain on horizon	Varies over the frequency band. Typical 0 dBi reducing to -38 dBi @ 20 MHz
Polarisation	Vertical
Radiation pattern	Monopole, omni-directional
Mechanical:	
Dimensions (d x h)	600 mm x 1298 mm
Weight	12 kg
Mounting	Via base plate with six M8 bolts
Ground plane requirement	Flat on vehicle / shelter top, as large as possible
Environmental:	
Temperature	- 31 °C to + 71 °C
Wind survival on vehicle **	160 km/h / 182 km/h**
Degree of enclosure **	MIL-STD-810E, method 506.3, procedure I
Humidity	MIL-STD-810E, method 507.4
Fungus **	MIL-STD-810E, method 508.5
Salt Fog **	MIL-STD-810E, method 509.4
Vibration (ground transportation) **	MIL-STD-810E, method 514.4, cat 1
Vibration (operation) **	MIL-STD-810E type 1
Shock **	MIL-STD-810E, method 516.4, procedure I (20 / 10 ms load in x, y and z direction)

** Naval specifications

APPLICATIONS:

- Wideband monitoring

A naval version of the antenna is available, with increased environmental specifications. The antenna can be customised if required, for different frequency ranges or greater power handling.



Wideband Monitoring Omni Antenna

20 – 3000 MHz

Product Code: OMNI-A0068

VERSION: 2.2

DIMENSIONS:

