



2.4 GHz Omni N(m)

Operating Frequency: 2.40-2.4835 GHz

Product code: OMNI-A0128



OMNI-A0128 is a high performance omni-directional antenna for outdoor use and is molded of high strength UV-stable plastic. It is designed for direct connection to an N-type female connector. The antenna is electrically optimized for low sidelobe levels and maximum elevation beamwidth for largest coverage area. Azimuth pattern ripple is typically less than 0.5dBi. In addition, it is specially designed to reject incoming signals from 4.8-6GHz to reduce interference from other wireless systems. An integrated balun makes the pattern stable and independent of mounting platform. The antenna also incorporates a DC-short for surge and lightning protection. The antenna is waterproof with an IP67 rating. Each antenna is individually pressure-tested to 3 bar before leaving the factory floor to ensure a sound seal.

Features:

- High gain, small form factor, only 370mm long with a diameter of 24mm and weight of 80 grams.
- DC shorted
- IP67

Application areas:

- The antenna is ideal for outdoor mesh networking systems and wireless access nodes operating in the 2.4-2.5GHz range.



Specifications:

Product Code:

OMNI-A0128 7dBi 2.4GHz with N(m) connector mounting

Electrical specifications

Frequency	2400–2484 MHz
Gain (max)	7 dBi (+0.2 dB)
Gain (min over the band)	6.5 dBi (+0.2 dB)
VSWR	1.5:1 (max)
Elevation 3 dB beamwidth	20° (± 1°)
Azimuth 3 dB beamwidth	360°
Feed power handling	6 W
Nominal input impedance	50 Ohm
Polarisation	Linear (Vertical)
Surge protection	DC-shortcd feed

Electrical compliance

Sidelobes level	< -14 dB
Cross polarisation	< -28 dB

Materials compliance RoHS

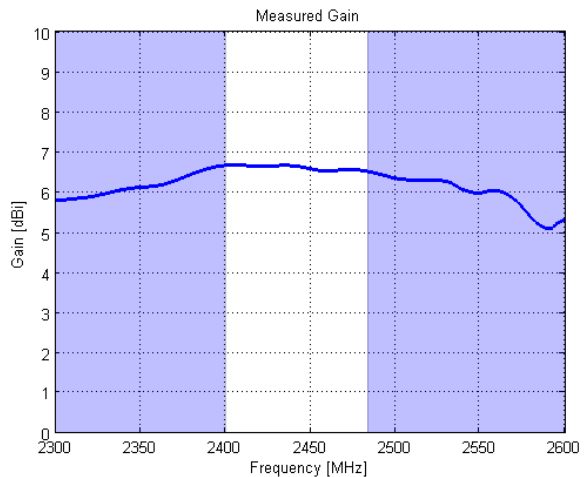
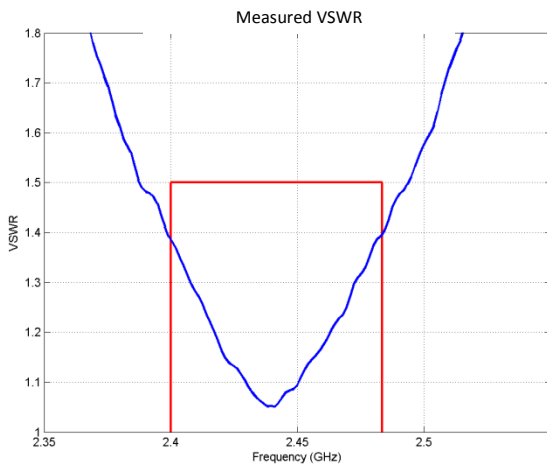
Environmental:

Flammability	UL 94 Class HB
Wind operation/survival	<200 km/h
Temperature Range	- 40°C to +90°C
Mechanical Shock	ETSI 300 019-2-4 V2.2.2 T4.1E
Vibration	ETSI 300 019-2-4 V2.2.2 T4.1E
Solar radiation	IEC 68-2-5, MIL-STD-810
Humidity	95% condensation, (IEC 60068)
Water Ingress Rating	IP67
Salt spray	ETSI 300 019-2-4

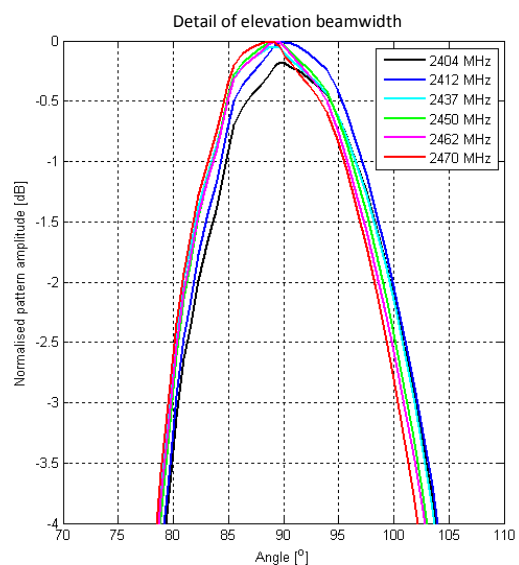
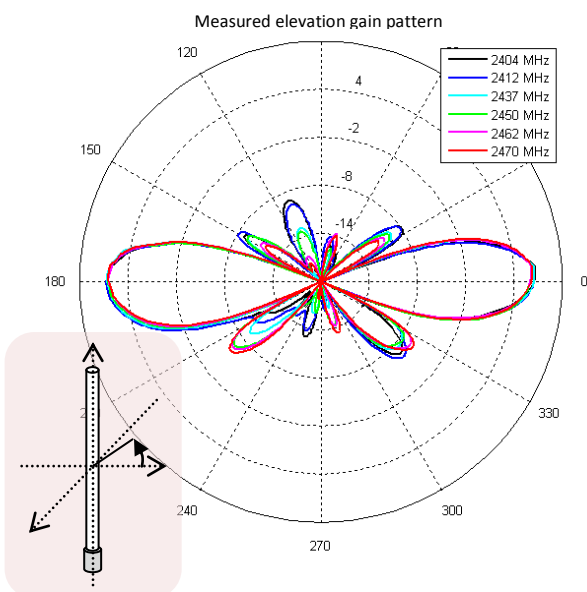
Mechanical:

Packaged weight	0.085 kg
Deployed dimensions	370mm x 24mm (l x d)
Colour	RAL9002, cool grey
Mounting	Direct to N(m) connector

VSWR and Gain

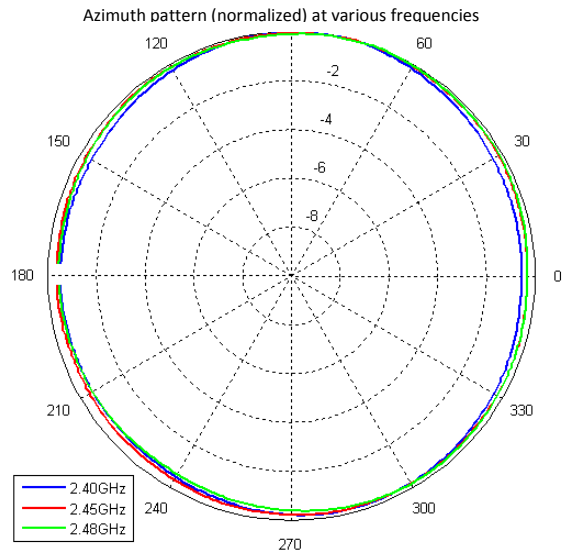
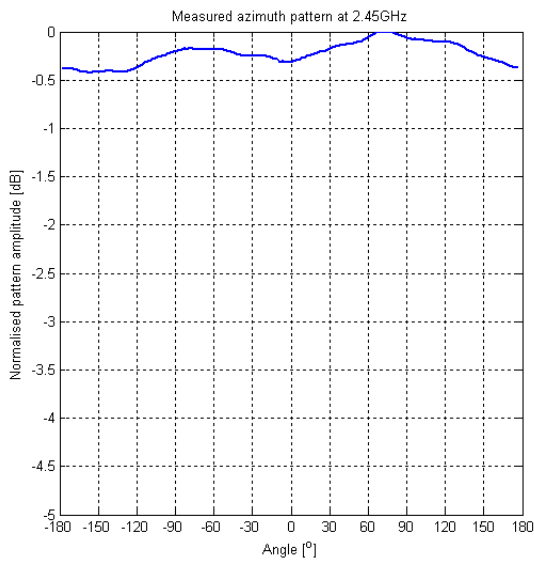


Co-polar Radiation Patterns (Elevation, E-plane)





Co-polar Radiation Patterns (Elevation, E-Plane)



Cross-polar Radiation Patterns

