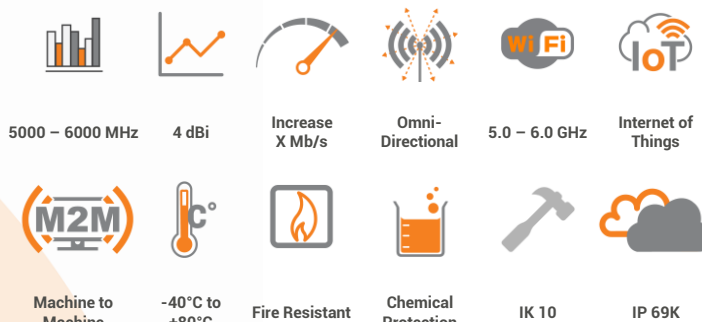


## ANTENNAS | OMNI-704 SERIES

# OMNI-DIRECTIONAL, WI-FI ANTENNA

5000 – 6000 MHz, 4 dBi



- Omni-directional Wi-Fi antenna
- Suitable for 5 GHz Wi-Fi deployment
- Compliant with IEEE 802.11a and 802.11ac wireless standard
- Ideal for IoT and M2M applications
- Rugged and low-profile design
- High pressure water and dust ingress protected enclosure (IP69K)



Rural/Farm



Industrial



Mining



Tunnelling

APPLICATION AREAS

## Product Overview

The OMNI-704 antenna forms part of our new “Rhyno” antenna range. The OMNI-704 operates from 5.0 – 6.0 GHz, covering the upper half of the 5 GHz Wi-Fi band, and has a maximum gain of 4 dBi. The antenna has a constant gain throughout the entire band of operation, as this offers improved performance with reliable connections. The antenna was designed with superior pattern control over the entire frequency range, making the OMNI-704 an exceptional omni-directional antenna for its size. The antenna housing is made of UV stable ASA, which offers protection in highly corrosive environments, including chemical and toxic environments such as industrial plants. The rugged enclosure design offers protection in adverse environmental conditions with an IP 69K and IK 10 rating. The antenna has an N-Type female connector at its base, which can be connected to a cable of the desired type and length.

## Features

- Omni-directional antenna
- Medium gain Wi-Fi antenna from 5000 to 6000 MHz
- Easy installation, pole- or wall mountable
- Stylish and robust design
- High pressure water and dust proof enclosure (IP 69K)

## Application Areas

- Smart Utilities: Smart Power Metering, Gas & Water Metering
- Smart Buildings: Climate control, access control, security, irrigation
- Smart Environmental & Water Systems
- Warehouses & Logistics systems
- Industrial factory automation and M2M systems
- Farming & Agricultural M2M IoT

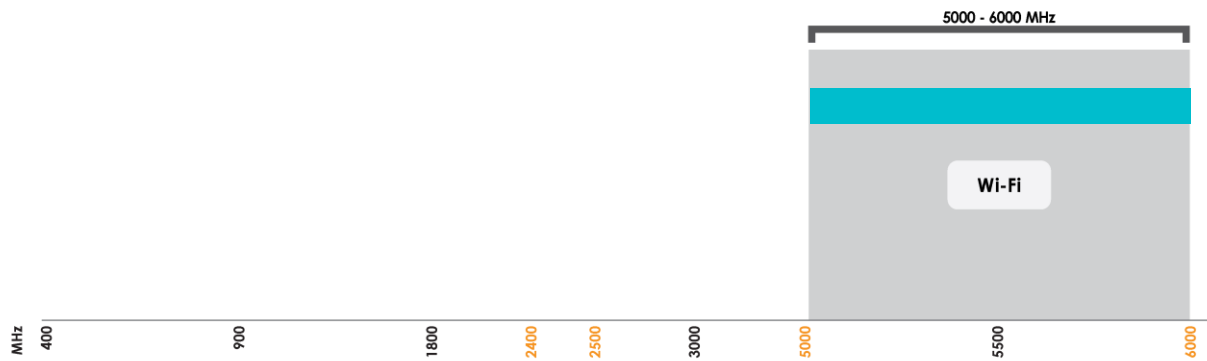


## OMNI-704

©2025 Poynting Antennas (Pty) Ltd. All rights reserved  
Product Specifications may change without prior notice  
Revised: April 2025


Frequency Bands

The OMNI-704 is a Wi-Fi/ISM antenna that works from | 5000 – 6000 MHz |



 Indicates the WI-FI bands on which OMNI-704 works

Antenna Overview

	
Ports	1
SISO / MIMO	SISO
Frequency Bands	5000 – 6000 MHz
Polarisation	Linear Vertical
Peak Gain	4 dBi
Coax Cable Type	N/A
Coax Cable Length	N/A
Connector Type	N-Type (F)

*\*The connector is factory mounted to the antenna*

Electrical Specifications

Frequency Bands:	5000 – 6000 MHz
Gain (Max):	4 dBi
VSWR:	<2:1
Feed Power Handling:	10 W
Input Impedance:	50 Ohm (nominal)
Polarisation:	Linear Vertical
DC Short:	Yes

Product Box Contents

Antenna:	A-OMNI-704
Mounting Bracket (Included):	Adhesive Disc & L-Bracket (Ø20-70mm Pole)

Ordering Information

Commercial Name:	OMNI-704
Order Product Code:	A-OMNI-0704-V1-01
EAN Number:	6009710921975

Mechanical Specifications

Product Dimensions	155 mm x Ø70 mm
Packaged Dimensions	236 mm x 80 mm x 96 mm
Weight	0.225 kg
Packaged Weight	0.405 kg
Radome Material:	UV Stable ASA
Radome Colour:	Grey Pantone 429C
Mounting Type:	Wall and Pole Mount Using L-Bracket & Surface Mount Using Adhesive Disc

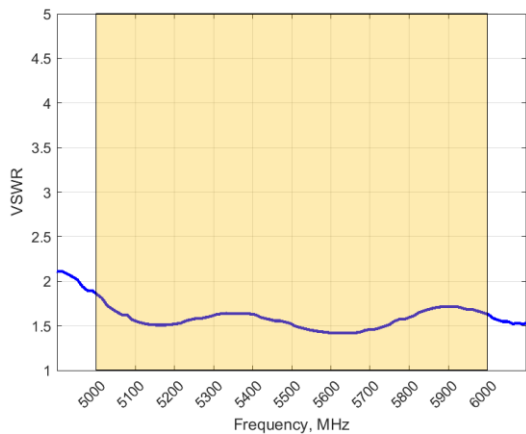
Environmental Specifications, Certification & Approvals

Wind Survival:	<190 km/h
Temperature Range (Operating):	-40°C to +80°C
Environmental Conditions:	Outdoor/Indoor
Water Ingress Protection Ratio/Standard:	IP 69K
Salt Spray:	MIL-STD 810G/ASTM B117
Operating Relative Humidity:	Up to 98%
Storage Humidity:	5% to 95% - non-condensing
Storage Temperature:	-40°C to +80°C
Enclosure Flammability Rating:	UL 94-HB
Impact Resistance:	IK 10
Product Safety & Environmental:	Complies with CE and RoHS standards



Antenna Performance Plots

VSWR



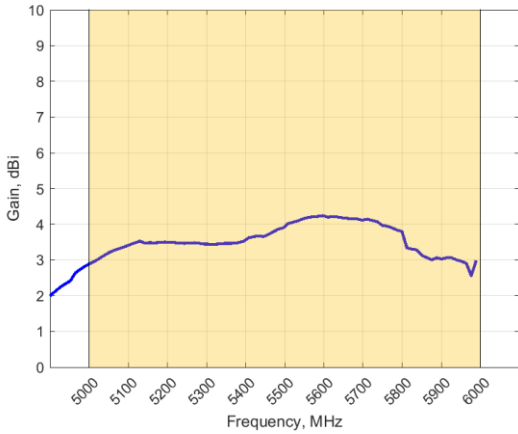
Voltage Standing Wave Ratio (VSWR)\*

VSWR is a measure of how efficiently radio-frequency power is transmitted from a power source, through a transmission line, into a load. In an ideal system, 100% of the energy is transmitted which corresponds to a VSWR of 1:1.

The OMNI-704 delivers superior performance across all bands with a VSWR of <2:1.

\*VSWR measured without a cable

GAIN (EXCLUDING CABLE LOSS)

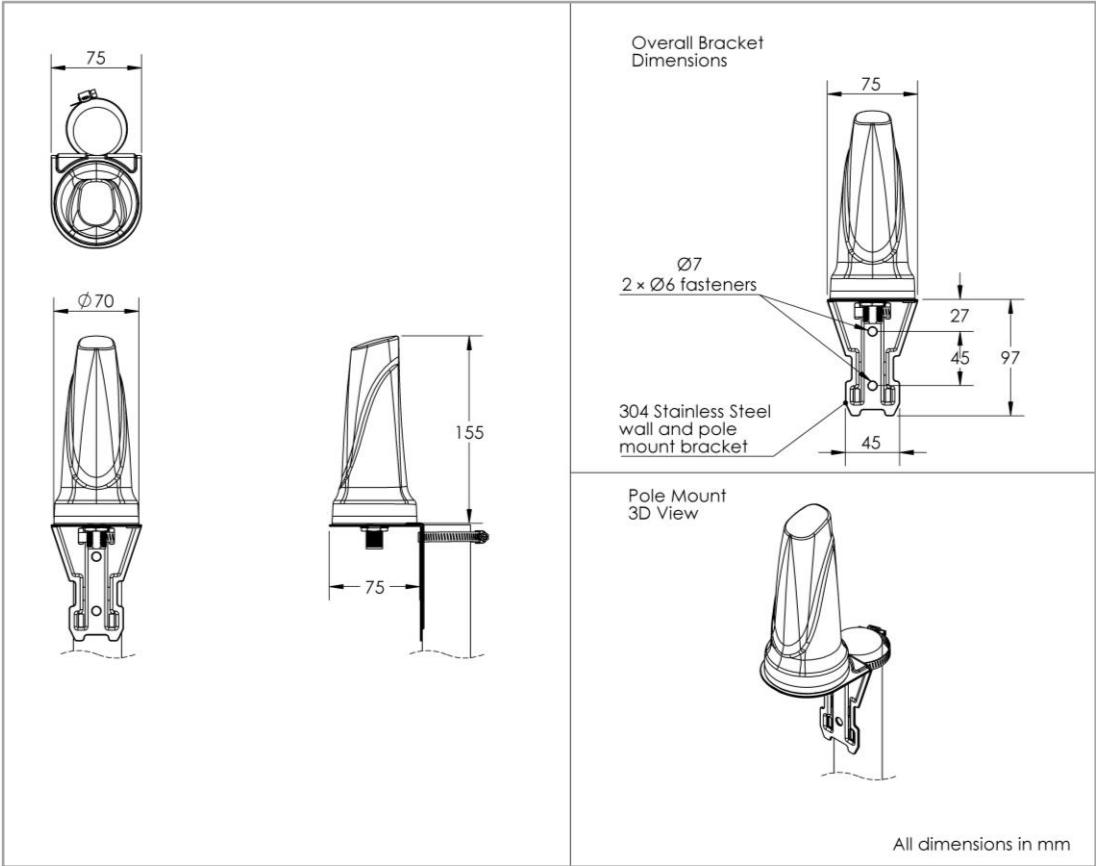


Gain\* in dBi

4 dBi is the peak gain across all bands from 5000 – 6000 MHz

\*Antenna gain measured with polarisation aligned standard antenna

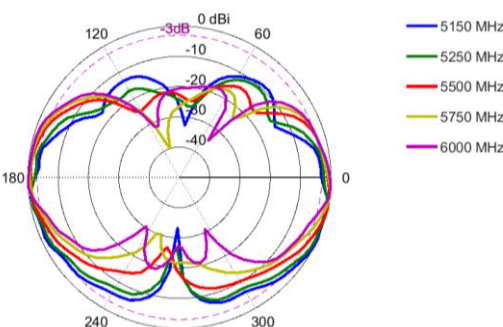
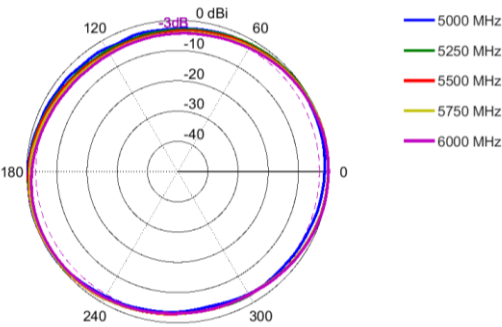
Technical Drawings



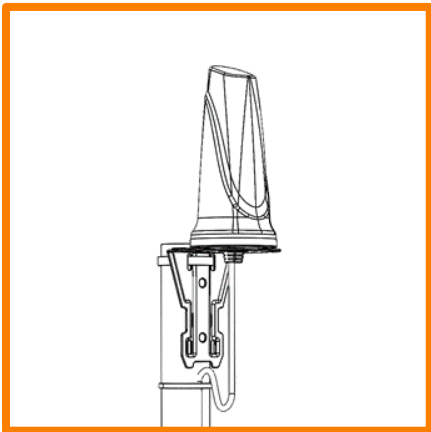
Radiation Patterns

Azimuth: 5000 – 6000 MHz

Elevation: 5000 – 6000 MHz

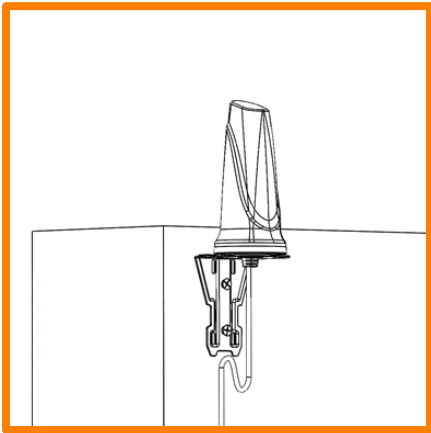


Mounting Options



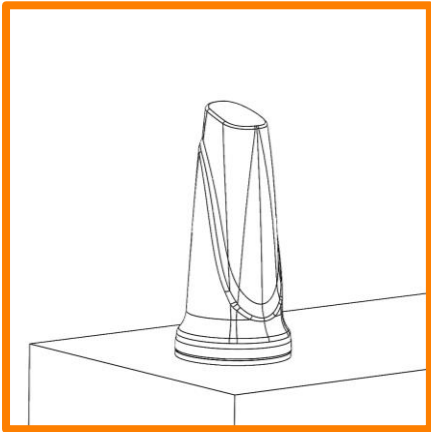
Pole Mount

Pole mounted using included L-Bracket and cable clamp



Wall/Cabinet Mount

Wall / Cabinet mounted using included L-Bracket



Surface Mount

Surface mounted using included adhesive disc

---

## Additional Accessories

See accessories technical specifications on [www.poynting.tech](http://www.poynting.tech)

---

## CONTACT POYNTING

### Poynting Antennas (Pty) Ltd - Head Office

Unit 4, N1 Industrial Park,  
Landmarks Avenue,  
Samrand, 0157, South Africa

**Phone:** +27 (0) 12 657 0050

**E-mail:** [info@poynting.tech](mailto:info@poynting.tech)

**International Email:** [sales-global@poynting.tech](mailto:sales-global@poynting.tech)

### Poynting Europe

Regus Business Center Neue Messe Riem  
Kronstadter Straße 4  
81677 München  
Germany

**Phone:** +49 89 7453 9002

**E-mail:** [sales-europe@poynting.tech](mailto:sales-europe@poynting.tech)

### Poynting USA

1804 Owen Court, Suite 104,  
Mansfield,  
TX 76063  
USA

**Phone:** +1 817 533-8130

**E-mail:** [sales-us@poynting.tech](mailto:sales-us@poynting.tech)