

# Poynting OMNI-297, Omni-Directional, Wideband Rhyno, 4G-5G antenna, 617 to 3800 MHz

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MPN: A-OMNI-0297-V1-01

## Description

The Poynting OMNI-297 is a robust omni-directional 4G-5G antenna, designed for versatile high-speed wireless data applications. Operating across a wide frequency range of 617 to 3800 MHz, this whip-type antenna excels in delivering reliable connectivity for residential 4G LTE, GSM, M2M, DTV, and other customer premise equipment applications. Its linear polarisation and 50  $\Omega$  impedance ensure optimal signal transmission, while the antenna's capability to handle up to 10 W input power makes it suitable for demanding environments.

Constructed from durable ASA plastic, the OMNI-297 is IP69K certified for superior ingress protection, enduring harsh weather conditions from -40 °C to 80 °C. Weighing just 0.35 kg and measuring 155 x 70 mm, it is compact and lightweight, ideal for space-conscious installations. Its compliance with CE, RoHS, and ISO 9001 standards, combined with MIL-STD-810 environmental durability certification, underscores its...

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## RF Specification

Start Frequency:	617 MHz	Polarisation:	Linear
Stop Frequency:	3800 MHz	Input Impedance:	50
Max. Input Power:	10 W	 <p>Poynting is a top global provider of integrated antenna solutions, responsible for the innovation, design and manufacture of its market-leading products. Established as a consultancy in 1990, Poynting evolved into an official PTY in 1997 and in 2001 established Poynting Antennas. It caters antenna solutions for primarily wireless high speed data applications, including residential 4G LTE as well ...</p>	
RF Connectors			

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	RG-58	600 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR
617 MHz	960 MHz	-3.5 dBi	< 2.5:1
1427 MHz	1517 MHz	-1 dBi	< 2.5:1
1710 MHz	2700 MHz	2 dBi	< 2.5:1
3400 MHz	3800 MHz	1.8 dBi	< 2.5:1

# Physical Specification

Subtype:	Whip	Dimensions:	155 x 70
Input Ports:	1	Ingress Protection:	IP69K
MIMO:	1x1 SISO	Materials:	ASA Plastic
Min. Operating Temperature:	-40 °C	Weight:	0.35 kg
Max. Operating Temperature:	80 °C	Compliance/Certifications:	CE
		RoHS	'
		ISO 9001 Quality Management	
		Mechanical Compliance:	MIL-STD-810: Environmental Durability

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