

Poynting MIMO-3-15, Ultra-Wideband, 5-in-1 Automotive, 2x2 MIMO 4G-5G + 2x2 MIMO WiFi + GPS antenna, 410 to 3800 MHz

SKU: ANT-PY-00037

MPN: A-MIMO-0003-V2-15

Description

The Poynting MIMO-3-15 is an advanced 5-in-1 automotive antenna designed for ultra-wideband applications, providing robust connectivity with 2x2 MIMO 4G/5G, 2x2 MIMO WiFi, and GPS capabilities. Covering a frequency range from 410 to 3800 MHz, this antenna ensures reliable performance across diverse environments, making it ideal for automotive, residential, and industrial applications.

Constructed from durable ASA plastic, the MIMO-3-15 is IP68 rated for excellent resistance to dust and water, while its MIL-STD-810 and IEC 60068-2-11 certifications promise superior environmental durability. It operates efficiently in temperatures ranging from -40°C to 80°C, ensuring reliability in extreme conditions.

This antenna features five RF connections, including SMA male interfaces, supporting high-speed data transmission with a peak gain of up to 7.0 dBi and a VSWR of less than 2.5:1. Its linear polarisation and 360° azimuth beamwidth enhance...

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RF Specification

Poynting



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 ...

Start Frequency: 410 MHz Polarisation: Linear

Stop Frequency: 3800 MHz Input Impedance: 50

Max. Input Power: 10 W

RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	L-195	2000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth
410 MHz	470 MHz	1 dBi	< 2.5:1	360°
698 MHz	960 MHz	3.5 dBi	< 2.5:1	360°
1710 MHz	2700 MHz	5.8 dBi	< 2.5:1	360°
3400 MHz	3800 MHz	4 dBi	< 2.5:1	360°

LTE

Start Frequency: 410 MHz Polarisation: Linear

Stop Frequency: 3800 MHz Input Impedance: 50

Max. Input Power: 10 W

RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	L-195	2000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth
410 MHz	470 MHz	1 dBi	< 2.5:1	360°
698 MHz	960 MHz	3.5 dBi	< 2.5:1	360°
1710 MHz	2700 MHz	5.8 dBi	< 2.5:1	360°
3400 MHz	3800 MHz	4 dBi	< 2.5:1	360°

WiFi

Start Frequency: 2400 MHz Polarisation: Linear

Stop Frequency: 6000 MHz Input Impedance: 50

Max. Input Power: 10 W

RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	A-302	2000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth
2400 MHz	2500 MHz	5 dBi	< 2.5:1	360°
5000 MHz	6000 MHz	7 dBi	< 2.5:1	360°

WiFi

Start Frequency:	2400 MHz	Polarisation:	Linear
Stop Frequency:	6000 MHz	Input Impedance:	50
Max. Input Power:	10 W		

RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	A-302	2000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth
2400 MHz	2500 MHz	5 dBi	< 2.5:1	360°
5000 MHz	6000 MHz	7 dBi	< 2.5:1	360°

GPS/GLONASS

Start Frequency:	1575.42 MHz	Input Impedance:	50
Stop Frequency:	1600 MHz	Polarisation:	Right Hand Circular (RHCP)

Low Noise Amplifier (LNA)

LNA Gain:	21 dBic	Min. Operating Voltage:	2.7 V
Noise Figure:	≤ 1.5 dB	Max. Operating Voltage:	3.3 V
Power Consumption:	< 15 mW		

RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	A-302	2000 mm

Physical Specification

Subtype:	Fin / Stud / Combo	Dimensions:	253 x 128 x 144
Input Ports:	5	Ingress Protection:	IP68
MIMO:	2x2 MIMO	Materials:	ASA Plastic
Min. Operating Temperature:	-40 °C	Weight:	1.36 kg
Max. Operating Temperature:	80 °C	Compliance/Certifications:	CE
		RoHS	
		Mechanical Compliance:	MIL-STD-810: Environmental Durability
			IEC 60068-2-11: Salt Mist

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