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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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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 ...

RF Specification

LTE

Start Frequency
410 MHz
Stop Frequency
3800 MHz
Max. Input Power
10 W
Polarisation
Linear
Input Impedance
50 Ω
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
Stop Frequency
3800 MHz
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10 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

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410 MHz	470 MHz	1 dBi	< 2.5:1	360°
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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
Stop Frequency
6000 MHz
Max. Input Power
10 W
Polarisation
Linear
Input Impedance
50 Ω
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
Stop Frequency
6000 MHz
Max. Input Power
10 W
Polarisation
Linear
Input Impedance

50 Ω

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

Stop Frequency

1600 MHz

Input Impedance

50 Ω

Polarisation

Right Hand Circular (RHCP)

Low Noise Amplifier (LNA)

LNA Gain

21 dBic

Noise Figure

≤ 1.5 dB

Power Consumption

< 15 mW

Min. Operating Voltage

2.7 V

Max. Operating Voltage

3.3 V

RF Connectors

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

Physical Specification

Subtype

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

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