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Poynting MIMO-3-12, Ultra-Wideband, 2-in-1 Automotive, 2x2 MIMO 4G-5G antenna; 410 to 3800 MHz

SKU
ANT-PY-00010
MPN
A-MIMO-0003-V2-12

Description

The Poynting MIMO-3-12 is a versatile, ultra-wideband 2x2 MIMO antenna designed for automotive applications, supporting 4G and 5G networks across a broad frequency range of 410 to 3800 MHz. With its robust ASA plastic construction and IP68 rating, this antenna is built to withstand harsh environmental conditions, making it ideal for outdoor use. It operates efficiently in temperatures from -40 °C to 80 °C, ensuring reliable performance in various climates.

This fin-style antenna features two input ports, each equipped with an SMA Male connector and 2000 mm cable, facilitating seamless integration into existing systems. The antenna's linear polarisation and 50 Ω impedance optimise signal transmission, supporting up to 10 W of input power. Its peak gain ranges from 1.0 dBi to 5.8 dBi across different frequency bands, ensuring enhanced signal reception and transmission quality.

Poynting, a leading provider of integrated antenna solutions...

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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

Cable 1: 4G-5G

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	Length
1	SMA Male	Straight	2000 mm

Frequency Test Data

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

Cable 2: 4G-5G

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	Length

1	SMA Male	Straight	2000 mm

Frequency Test Data

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

Physical Specification

Subtype
Fin / Stud / Combo
Input Ports
2
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
1.1 kg
Compliance/Certifications
CE
,
RoHS
,
ISO 9001 Quality Management
Mechanical Compliance
MIL-STD-810: Environmental Durability

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