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Poynting MIMO-3-17, Ultra-Wideband, 7-in-1 Automotive, 4x4 MIMO 4G-5G + 2x2 MIMO WiFi + GPS antenna; 410-3800 MHz

SKU
ANT-PY-00023
MPN
A-MIMO-0003-V2-17

Description

The Poynting MIMO-3-17 is a versatile 7-in-1 antenna designed for automotive applications, supporting 4x4 MIMO 4G-5G, 2x2 MIMO WiFi, and GPS. Operating in ultra-wide frequency ranges from 410 MHz to 3800 MHz, this antenna provides robust connectivity for high-speed data applications, including 4G LTE, GSM, M2M, and DTV.

Constructed from durable ASA plastic, the MIMO-3-17 features a compact, lightweight design with an IP69K rating, ensuring it withstands harsh environmental conditions. It operates efficiently in temperatures ranging from -40 °C to 80 °C, making it ideal for a variety of environments. The antenna is compliant with CE, RoHS, and ISO 9001 certifications, and meets MIL-STD-810 standards for durability.

The 4G-5G elements are linear polarised, delivering peak gain values across several frequency bands, with azimuth beamwidths of 360°. WiFi elements also offer broad frequency coverage with peak gains up to 7.0 dBi. The...

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Making wireless happen

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

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	Cable Series	Length
1	SMA Male	Straight	A-302	2000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth
410 MHz	470 MHz	1.5 dBi	< 2.5:1	360°
617 MHz	960 MHz	2.2 dBi	< 2.5:1	360°
1427 MHz	1517 MHz	4.2 dBi	< 2.5:1	360°
1710 MHz	2700 MHz	6.2 dBi	< 2.5:1	360°
3400 MHz	3800 MHz	4.8 dBi	< 2.5:1	360°

WiFi

Start Frequency
2400 MHz
Stop Frequency
7200 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	3 dBi	< 2.5:1	360°
5000 MHz	7200 MHz	7 dBi	< 2.5:1	360°

GPS/GLONASS

Start Frequency
1575.42 MHz
Stop Frequency
1602 MHz
Input Impedance
50 Ω
Polarisation
Right Hand Circular (RHCP)

Low Noise Amplifier (LNA)

LNA Gain
21 dBic
Noise Figure
≤ 1.5 dB
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
Dipole
Input Ports
7

MIMO
4x4 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
80 °C
Dimensions
253 x 128 x 144
Ingress Protection
IP69K
Materials
ASA Plastic
Weight
1.51 kg
Compliance/Certifications
CE
,
RoHS
,
ISO 9001 Quality Management
Mechanical Compliance
MIL-STD-810: Environmental Durability