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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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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° 2700 MHz 6.2 dBi < 2.5:1 360° 1710 MHz < 2.5:1 360° 3400 MHz 3800 MHz 4.8 dBi

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

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RoHS

ISO 9001 Quality Management

Mechanical Compliance

MIL-STD-810: Environmental Durability

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