

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...

[Read More](#)

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	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 Polarisation: Linear

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

GPS/GLONASS

Start Frequency: 1575.42 MHz Input Impedance: 50

Stop Frequency: 1602 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
---------------	----------	-------------------------	-------

RF Connectors

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

Physical Specification

Subtype:	Dipole	Dimensions:	253 x 128 x 144
Input Ports:	7	Ingress Protection:	IP69K
MIMO:	4x4 MIMO	Materials:	ASA Plastic
Min. Operating Temperature:	-40 °C	Weight:	1.51 kg
Max. Operating Temperature:	80 °C	Compliance/Certifications:	CE
		RoHS	'
		ISO 9001 Quality Management	
		Mechanical Compliance:	MIL-STD-810: Environmental Durability

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

