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Poynting HELI-21, Circular-Polarised Tunnel, Dual Band WiFi antenna; 2400 to 6000 MHz

SKU
ANT-PY-00028
MPN
A-HELI-0021-V3-01

Description

The Poynting HELI-21 is a robust circular-polarised dual-band WiFi antenna, ideal for demanding environments such as tunnels. Covering a frequency range from 2400 to 6000 MHz, it provides reliable connectivity across various applications, including 4G LTE, GSM, M2M, and DTV. With a helical design, the HELI-21 supports 2x2 MIMO technology, enhancing wireless performance.

Constructed from durable ABS plastic and PVC, the antenna is IP65 rated, ensuring resistance to dust and water ingress, and operates effectively in extreme temperatures from -40 °C to 70 °C. This makes it a reliable choice for outdoor and industrial applications. It features four RF connections with 50 Ω impedance, supporting up to 30 W input power, and is LHCP polarised for improved signal clarity.

The HELI-21 offers impressive RF performance with peak gains of 12.0 dBi and 13.0 dBi in its respective frequency ranges, maintaining a VSWR of less than 1.5:1. It includes an...

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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

Port 1

Start Frequency
2400 MHz
Stop Frequency
6000 MHz
Max. Input Power
30 W
Polarisation
Left Hand Circular (LHCP)
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	N Male	Straight	RG-58	350 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR
2400 MHz	2500 MHz	12 dBi	< 1.5:1
5000 MHz	6000 MHz	13 dBi	< 1.5:1

Physical Specification

Subtype
Helical
Input Ports
4
MIMO
2x2 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
70 °C
Dimensions
526 x 415 x 266
Ingress Protection
IP65

Materials
ABS Plastic, Polyvinyl Chloride (PVC)
Weight
3.9 kg
Compliance/Certifications
CE
,
RoHS
,
ISO 9001 Quality Management
Mechanical Compliance
MIL-STD-810: Environmental Durability

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