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# **Poynting HELI-22, Bi-Directional, Circular-Polarised Tunnel, Dual Band WiFi antenna, 2400 to 6000 MHz**

SKU  
ANT-PY-00029  
MPN  
A-HELI-0022-V3-01

## Description

The Poynting HELI-22 is a robust bi-directional, circular-polarised, dual-band WiFi antenna, designed for superior performance in tunnel environments. Operating across a frequency range of 2400 to 6000 MHz, this helical antenna is ideal for applications requiring reliable wireless communication, such as 4G LTE, GSM, M2M, and digital television. Its dual-band capability ensures enhanced connectivity and data throughput.

Constructed from durable ABS Plastic and PVC, the HELI-22 is certified to an IP65 ingress protection rating, making it suitable for harsh environments. With a temperature tolerance from -40 °C to 70 °C, it maintains optimal performance under extreme conditions. Weighing 5.6 kg and measuring 603 x 415 x 266 mm, this antenna is both robust and manageable.

The HELI-22 features four RF input ports, supporting 2x2 MIMO configurations for improved signal strength and reliability. Its electrical elements offer a peak gain of 9.0...

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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

## Antenna Element 1

Max. Input Power

30 W

Polarisation

[Left Hand Circular \(LHCP\)](#)

Input Impedance

50  $\Omega$

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR
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2400 MHz	2500 MHz	9 dBi	< 2:1
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5000 MHz	6000 MHz	11 dBi	< 2:1
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## Physical Specification

Subtype

[Helical](#)

Input Ports

4

MIMO

[2x2 MIMO](#)

Min. Operating Temperature

-40 °C

Max. Operating Temperature

70 °C

Dimensions

603 x 415 x 266

Ingress Protection

[IP65](#)

Materials

[ABS Plastic](#), [Polyvinyl Chloride \(PVC\)](#)

Weight

5.6 kg

Compliance/Certifications

CE

,

RoHS

,  
ISO 9001 Quality Management

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