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Cambium Networks C050045B002B 5 GHz PTP 450i END, Integrated High Gain Antenna (ROW)

SKU
WIF-CB-00075
MPN
C050045B002B

Description

Cambium's PTP 450i is a ruggedised all-integrated 5 GHz point-to-point microwave radio capable of providing data connectivity up to 300 Mb/s with very high reliability.

PTP 450i provides industrial grade performance with IP66 / IP67 ingress protection, while maintaining a very reasonable price point. The unit can be set to use any 40 MHz channel within the entire 5 GHz band to achieve in excess of 300 Mbps of real throughput using modulation up to 256QAM and 2x2 MIMO.

With its Motorola legacy and industrial metal enclosure it should be no surprise the unit boasts a working life (MTBF) of over 40 years.

The C050045B002A variation of the PTP 450i integrates a medium-high gain 23 dBi patch array antenna, with no exposed connections for the highest possible reliability.

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Cambium Networks

Cambium Networks enables service providers; enterprises; governmental and military agencies; oil, gas and utility companies; Internet service providers; and public safety organizations to build powerful communications networks, reach users from 200 kilometers across mountain tops down to their devices, and intelligently manage their business Wi-Fi infrastructure through end-to-end network ...

Network Interfaces
Wireless Interfaces
Topology
Point-to-Point (P2P)
Max. Throughput
300 Mb/s
Encryption
AES-128
Max. Clients
1
Latency
5 ms
Aggregate Channel Width
40 MHz
Transmit Power
28 dBm

Wireless Bands	Start Frequency	Stop Frequency	MIMO	Channel Width	Modulation	Max. Data Rate
5 GHz	4900 MHz	5925 MHz	2x2 MIMO	40 MHz	256QAM	300 Mb/s

Ethernet Interfaces

Interface	Quantity	Function	Signalling	PoE Input
RJ45 Copper	1	Data + PoE In	100BASE-T, 1000BASE-T	802.3at PoE+
RJ45 Copper	1	Aux + PoE Out	100BASE-T, 1000BASE-T	802.3at PoE+

Antenna Specifications

Start Frequency

4900 MHz

Stop Frequency

5925 MHz

Polarisation

Dual Pol (V, H)

Input Impedance

50 Ω

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Elevation
4900 MHz	5925 MHz	23 dBi	> 14 dB	< 1.5:1	10°	10°

Polar Patterns

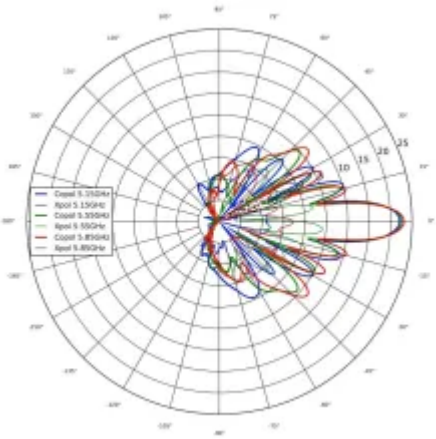
Start Frequency

5150 MHz

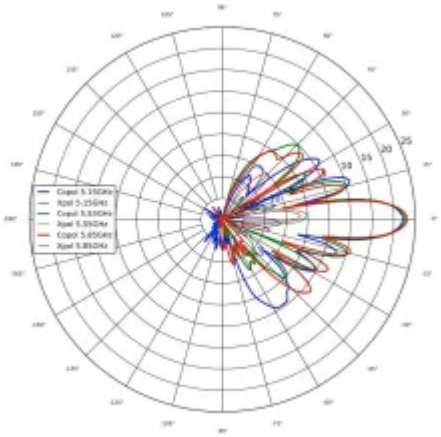
Stop Frequency

5850 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

Subtype
Wireless Bridge
Min. Operating Temperature
-40 °C
Max. Operating Temperature
75 °C
Ingress Protection
IP67
MTBF
> 350000 h
Dimensions
64 × 310 × 310 mm
Weight
2.5 kg
Materials
Aluminium
Mounting
Cambium 4/8-Bolt Pattern
Compliance/Certifications
CE
,
RCM
Power Specifications
Max. Consumption
30 W
Typical Consumption
15 W

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