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Cambium C050045A005C PMP 450i 5 GHz Multipoint Access Point, 90 Degree

SKU
WIF-CB-00252
MPN
C050045A005C

Description

Cambium's 5 GHz PMP 450i access point provides high performance wireless data connectivity to multiple receiver units simultaneously.

Coupling its 40 MHz channel width with a peak modulation scheme of 256QAM the PMP 450i can provide beyond 300 Mb/s L1 throughput (theoretically as high as 450 Mb/s). The system supports up to 238 subscribers and touts a maximum range of 64 kilometers (subject to regulatory conditions).

PMP 450i 5 GHz is one of few industrial grade multipoint solutions. The system is the choice of major mining and telecommunications companies where performance cannot be compromised. The unit is IP67 rated for harsh operating environment and claims a mean-time-between-failure of over 40 years.

[Read More](#)

PMP 450i is one of our favourite units for the simple fact that it does exactly what it states. There's no marketing spin, the system is installed and provides continuous high speed wireless connectivity for decades. The AP is rock solid and works in just about any environmental condition.

A unique feature is its FPGA design, allowing future firmware releases to upgrade performance.



**CambiumTM
Networks**

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-Multipoint \(P2MP\)](#)

Max. Throughput

300 Mb/s

Encryption

[AES-128](#)

Max. Clients

238

Latency

5 ms

Aggregate Channel Width

40 MHz

Transmit Power

28 dBm

Agg. Data Rate

300 Mb/s

Agg. Channel Width

40 MHz

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

Ethernet Interfaces

Interface	Quantity	Function	Signalling	PoE Input	PoE Output
RJ45 Copper	1	Data + PoE	100BASE-T , 1000BASE-T	802.3at PoE+	
RJ45 Copper	1	Aux & PoE Output	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 17 dBi > 14 dB < 1.5:1 90° 10°

Polar Patterns

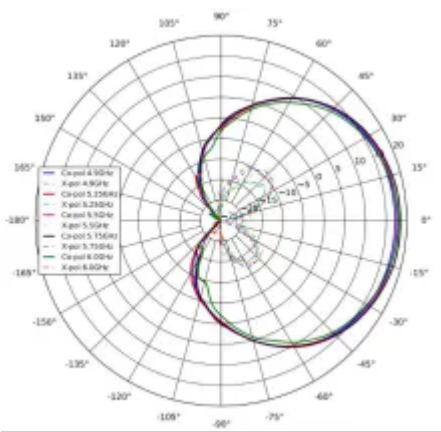
Start Frequency

4900 MHz

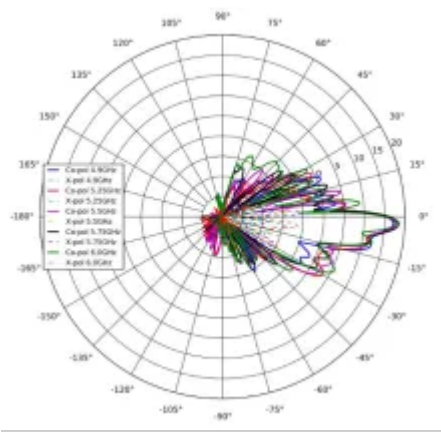
Stop Frequency

6000 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

157 × 155 × 595 mm

Weight

6.8 kg

Materials

[Aluminium Die Cast](#)

Compliance/Certifications

[R-NZ](#)

,

[RCM](#)

Power Specifications

Max. Consumption

18 W

Power Options

Power over Ethernet

Typical Consumption

15 W

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