Page

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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.



[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

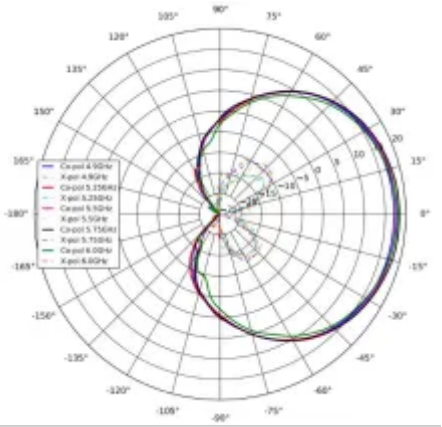
Start Frequency

4900 MHz

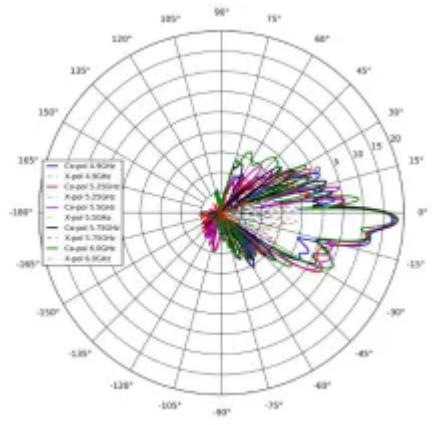
Stop Frequency

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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