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Cambium C050045B031A PMP 450b Mid-Gain Subscriber (PTP Compatible)

SKU
WIF-CB-00074
MPN
C050045B031A

Description

Cambium's 5 GHz PMP 450b subscriber module operates as a high performance wireless data receiver by connecting to a deployed PMP 450i access point.

Coupling its 40 MHz channel width with a peak modulation scheme of 256QAM the PMP 450b can provide beyond 300 Mb/s L1 throughput. The platform's SoC architecture provides a 400% increase in processing power over legacy 450 SM units.

PMP 450b is a reliable and cost effective subscriber, sporting a IP55 ingress protection rating and 40 year MTBF. The unit can also be set in PTP mode to operate as a simple 5 GHz backhaul.

[Read More](#)

The Mid-Gain version of the 450b provides a modest 17 dBi gain making it ideal for short range point to multipoint applications. The reduced gain removes the need to fine tune or align the connection to the access point, and also provides greater tolerance to installations experiencing high wind, vibration, or moving components.

The wider beamwidth improves performance in short range non-line of sight environments, such as scenarios experiencing higher levels of multipath scatter.



**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

[Multipoint Terminal/Subscriber](#), [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

27 dBm

Agg. Data Rate

300 Mb/s

Receive Sensitivity

-94 dBm

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
RJ45 Copper	1	Data & PoE	100BASE-T , 1000BASE-T	Cambium 30 Vdc

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	Azimuth	Elevation	F/B Ratio	XPD
4900 MHz	5925 MHz	17 dBi	15°	30°	> 20 dB	> 15 dB

Polar Patterns

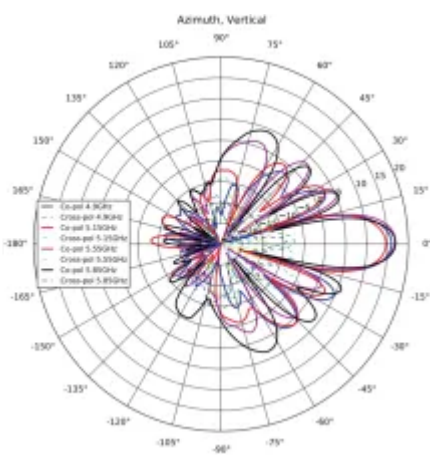
Start Frequency

4900 MHz

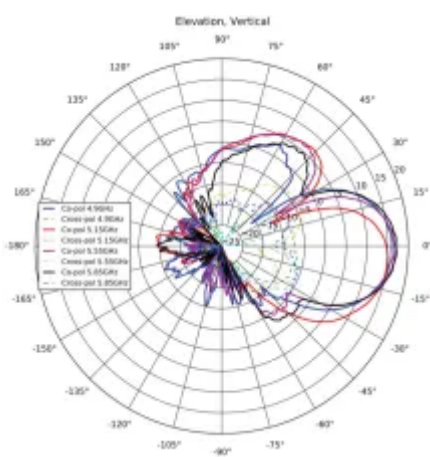
Stop Frequency

5925 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

Subtype

Wireless Bridge

Min. Operating Temperature

-40 °C

Max. Operating Temperature

60 °C

Ingress Protection

[IP55](#)

MTBF

> 350000 h

Dimensions

120 × 248 × 125 mm

Weight

0.6 kg

Compliance/Certifications

[ISO 9001 Quality Management](#)

Power Specifications

Max. Consumption

12 W

Power Options

Power over Ethernet

Typical Consumption

9 W

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