

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

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## 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.

## Network Interfaces

### Wireless Interfaces



### 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 ...



Topology:	Multipoint Terminal/Subscriber, Point-to-Point (P2P)	Max. Clients:	1
Max. Throughput:	300 Mb/s	Latency:	5 ms
Encryption:	AES-128	Aggregate Channel Width:	40 MHz
Transmit Power:	27 dBm	Receive Sensitivity:	-94 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
RJ45 Copper	1	Data & PoE	100BASE-T, 1000BASE-T	Cambium 30 Vdc

#### Antenna Specifications

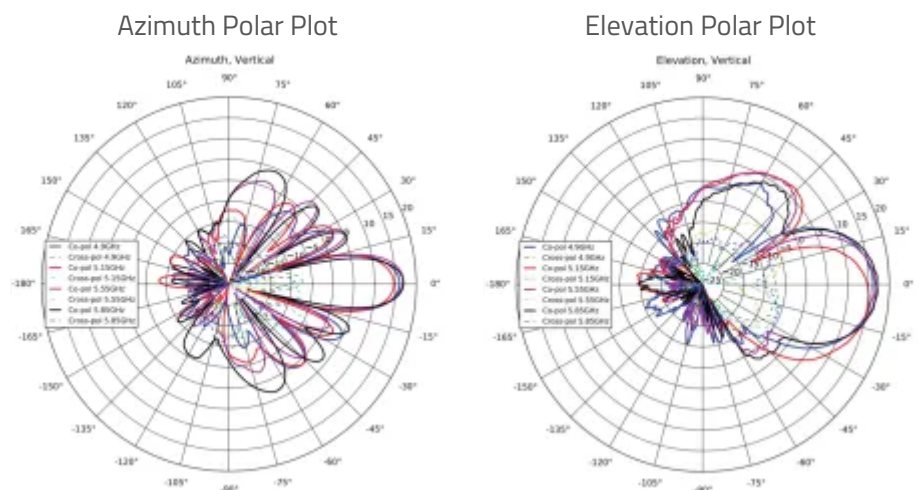
Start Frequency:	4900 MHz	Polarisation:	Dual Pol (V, H)
Stop Frequency:	5925 MHz	Input Impedance:	50

#### 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



## Physical Specification

Subtype:	Wireless Bridge	Dimensions:	120 × 248 × 125 mm
Min. Operating Temperature:	-40 °C	Weight:	0.6 kg
Max. Operating Temperature:	60 °C	Compliance/Certifications:	ISO 9001 Quality Management
Ingress Protection:	IP55		
MTBF:	> 350000 h		

Power Specifications

Max. Consumption:	12 W	Typical Consumption:	9 W
Power Options:	Power over Ethernet		

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