

# 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. Clients:	238
Max. Throughput:	300 Mb/s	Latency:	5 ms
Encryption:	AES-128	Aggregate Channel Width:	40 MHz
Transmit Power:	28 dBm	Agg. Channel Width:	40 MHz
Agg. Data Rate:	300 Mb/s		

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

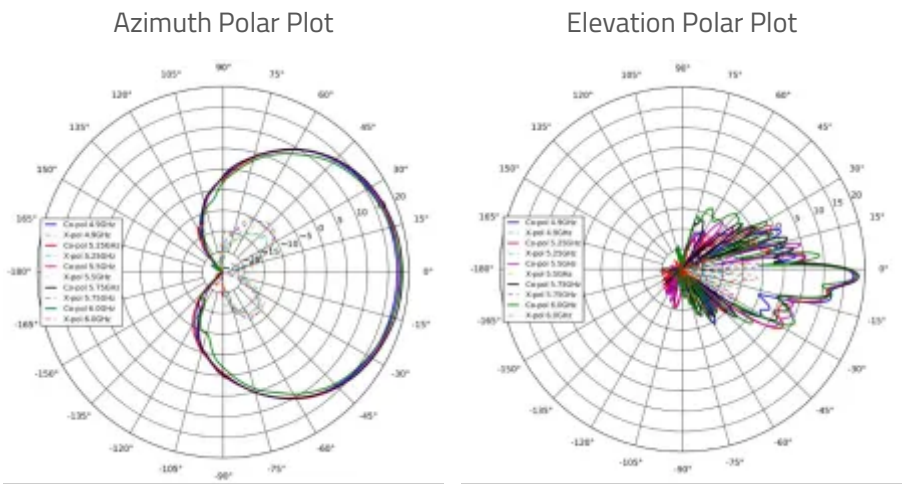
Start Frequency:	4900 MHz	Polarisation:	Dual Pol (V, H)
Stop Frequency:	5925 MHz	Input Impedance:	50

## 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



# Physical Specification

Subtype:	Wireless Bridge	Dimensions:	157 × 155 × 595 mm
Min. Operating Temperature:	-40 °C	Weight:	6.8 kg
Max. Operating Temperature:	75 °C	Materials:	Aluminium Die Cast
Ingress Protection:	IP67	Compliance/Certifications:	R-NZ
MTBF:	> 350000 h	RCM	

# Power Specifications

Max. Consumption:	18 W	Typical Consumption:	15 W
Power Options:	Power over Ethernet		

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