

Cambium C050045A101A PMP 450m Medusa 5 GHz Integrated Access Point (ROW)

SKU: WIF-CB-00113

MPN: C050045A101A

Description

Cambium's release of the PMP 450m Medusa became arguably one of the most significant advances in multipoint wireless of the decade.

Designed as a drop-in replacement of legacy PMP 450 and 450i access points, the PMP 450m provides a serious network capacity increase in a matter of hours.

The 5 GHz PMP 450m uses its cnMedusa Massive MIMO technology (14T14R MU-MIMO) to deliver aggregate capacity of 1.2 Gb/s in a 40 MHz channel. The system provides an unmatched 60 b/Hz spectral efficiency supporting adaptive modulation up to 256QAM.

The system uses beamforming and beamsteering to isolate and track client radios, and establish 14 spatial streams to 7 simultaneous users resulting in exceptional performance in noisy RF environments.

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The Cambium Medusa PMP 450m allows your team to deliver exceptional data rates in highly dynamic environments such as in mining. The unit provides unmatched performance in the 5 GHz band.

With a MTBF of >40 years the unit is rock solid and unwavering throughout its lifecycle, just as engineers have come



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:	1200 Mb/s	Latency:	10 ms
Encryption:	AES-128	Aggregate Channel Width:	40 MHz
Transmit Power:	29.7 dBm	Receive Sensitivity:	-94 dBm
Agg. Data Rate:	1200 Mb/s	Agg. Channel Width:	40 MHz
Beamforming:	2DBF		

Wireless Bands	Path Mode	Start Frequency	Stop Frequency	MIMO	Channel Width	Modulation	Max. Data Rate
5 GHz	TDD	5150 MHz	5925 MHz	Massive MIMO	40 MHz	256QAM	171 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 with PoE Output	100BASE-T, 1000BASE-T		802.3at PoE+

Antenna Specifications

Beamforming Array

Start Frequency:	4940 MHz	Polarisation:	Dual Pol (V, H)
Stop Frequency:	5925 MHz	Input Impedance:	50

Frequency Test Data

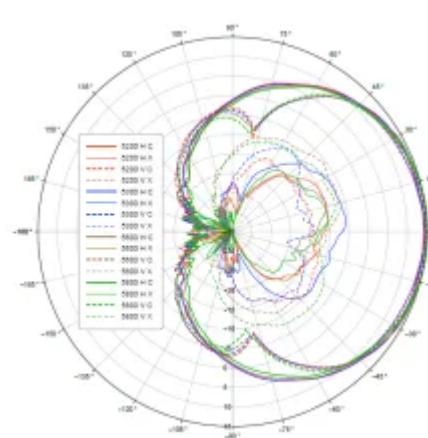
Start Freq.	Stop Freq.	Peak Gain	Azimuth	Elevation
4940 MHz	5925 MHz	15.3 dBi	90°	8°

Polar Patterns

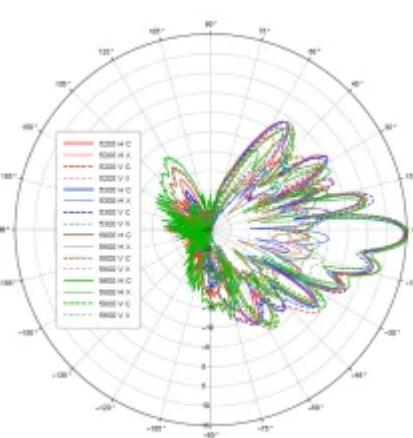
Start Frequency: 5200 MHz

Stop Frequency: 5800 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

Subtype:	Wireless Bridge	Dimensions:	110 x 650 x 520 mm
Min. Operating Temperature:	-40 °C	Weight:	14.2 kg
Max. Operating Temperature:	60 °C	Materials:	Aluminium
Ingress Protection:	IP67	Compliance/Certifications:	R-NZ
MTBF:	> 350000 h	RCM	

Power Specifications

Max. Consumption:	80 W	Typical Consumption:	70 W
Power Options:	Power over Ethernet		

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