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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.

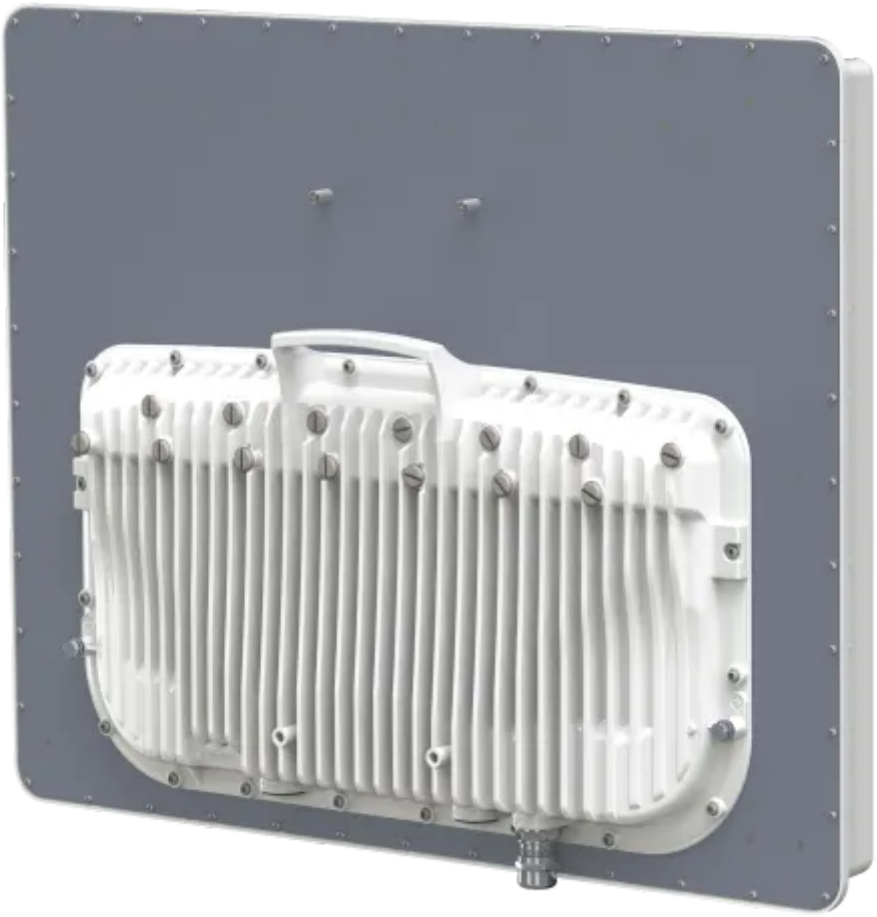
The system uses beamforming and beamsteering to isolate and track client radios, and establish 14 spatial streams to 7 simultaneous users resulting in exceptional performance in noisy RF environments.

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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 to expect from the Cambium brand.

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Cambium™ 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
Point-to-Multipoint (P2MP)
Max. Throughput
1200 Mb/s
Encryption
AES-128
Max. Clients
238
Latency
10 ms
Aggregate Channel Width
40 MHz
Transmit Power
29.7 dBm
Agg. Data Rate
1200 Mb/s
Beamforming
2DBF
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	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

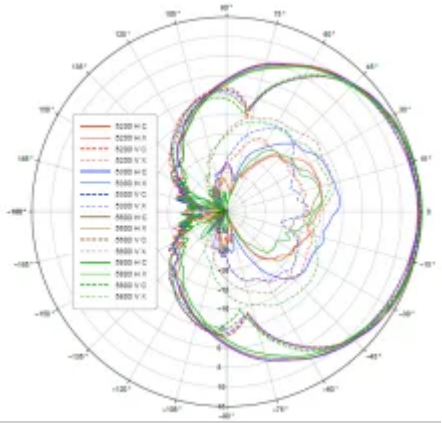
Start Frequency
4940 MHz

Stop Frequency
5925 MHz
Polarisation
Dual Pol (V, H)
Input Impedance
50 Ω
Frequency Test Data

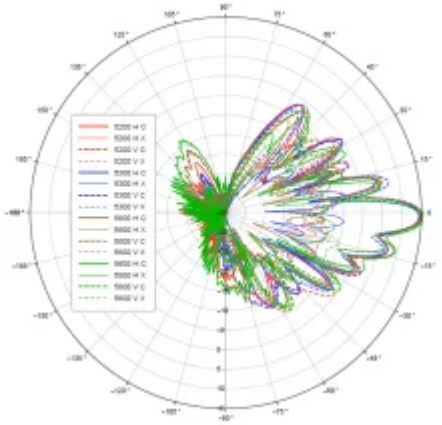
Start Freq.	Stop Freq.	Peak Gain	Azimuth	Elevation
4940 MHz	5925 MHz	15.3 dBi	90°	8°

Polar Patterns
Start Frequency
5200 MHz
Stop Frequency
5800 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

Subtype
Wireless Bridge
Min. Operating Temperature
-40 °C
Max. Operating Temperature
60 °C
Ingress Protection
IP67
MTBF
> 350000 h
Dimensions
110 × 650 × 520 mm
Weight
14.2 kg
Materials
Aluminium
Compliance/Certifications
R-NZ
,
RCM
Power Specifications
Max. Consumption
80 W
Power Options
Power over Ethernet
Typical Consumption
70 W

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