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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.

Read More

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.

Read More





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		Start Frequency	Stop Frequency	мімо	Channel Width	Modulation	Data Rate
5 GHz	TDD	5150 MHz	5925 MHz	Massive MIMO	40 MHz	256QAM	171 Mb/s

Ethernet Interfaces

Interface	e Quantity	y Function	Signalling	PoE Input	PoE Output
RJ45 Copper	1	Data & PoE	100BASE-T, 1000BASE-T	802.3at <u>PoE+</u>	
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

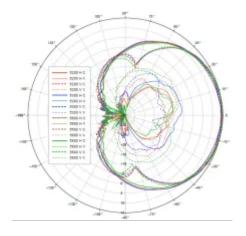
Start Frequency

5200 MHz

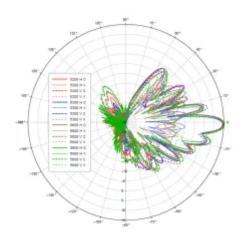
Stop Frequency

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

 $110 \times 650 \times 520 \text{ mm}$

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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