Powertec Wireless Technology
ABN: 42 082 948 463
PO Box 1034, Ashmore City
Queensland, Australia, 4214
sales@powertec.com.au
1300 769 378

Cambium ePMP 3000 4x4 MU-MIMO 5 GHz Access Point, 1.2 Gbps

SKU
WIF-CB-00043
MPN
C050910A801A

Description

Cambium's ePMP 3000 is a third generation multipoint wireless radio designed as an economical solution for point-to-multipoint WISP applications.

The ePMP 3000 carries on the interference tolerance mechanisms from ePMP 2000 but adds the power of Multi-User MIMO (MU-MIMO). The ePMP 3000 is a 4x4 MU-MIMO access point that can double the throughput at the sector level with the same channel bandwidth by serving two subscribers at the same time.

Coupling its 80 MHz channel width with a peak modulation scheme of 256QAM the ePMP 3000 access point can provide up to 1.2 Gb/s of aggregate L1 throughput, and supporting data rates as high as 600 Mb/s to a single subscriber module. The system supports up to 120 subscribers per sector.

This system is designed for connection to Force 300 subscriber modules.

The radio is listed separately from compatible antennas, allowing the unit to be paired with antennas of any design.

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The ePMP 3000 continues interference mitigation techniques with support of the beam steering antenna for uplink, dynamic filtering for neighboring channel interference, and the robust software from the ePMP product line.

The ePMP 3000 AP system consists of the ePMP 3000 AP, a 4x4 sector antenna, optional beam steering antennas, and 25 dBi and 16 dBi subscriber modules for long and medium range.

The unit is powered by standardised 802.3at 56 Vdc PoE+.

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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

120

Aggregate Channel Width

80 MHz

Transmit Power

32 dBm

Beamforming

2DBF

Receive Sensitivity

-92 dBm

Wireless Bands	Path Mode	Start Frequency	Stop Frequency	MIMO	Channel Width	Modulation	Max. Data Rate
5 GHz	TDD	4910 MHz	5970 MHz	4x4 MIMO	80 MHz	256QAM	1200 Mb/s

RF Connections

RF Connector Function	Quantity	RF Interface	Notes
Wireless Link	4	SMA Female	Standard Antenna Connection
Wireless Link	2	RP-SMA Female	Beamforming Antenna Connection
GNSS	1	SMA Female	GPS Antenna (Supplied)

Ethernet Interfaces

Interface	Quantity	Function	Signalling	PoE Input
RJ45 Copper	1	Data + PoE Input	100BASE-T, 1000BASE-T	802.3at PoE+

Physical Specification

Min. Operating Temperature

-30 °C
Max. Operating Temperature
55 °C
Ingress Protection
IP55
Dimensions
45 × 137 × 330 mm
Weight
1.3 kg
Materials
Plastic
Compliance/Certifications
R-NZ
,
RCM
Power Specifications
Max. Consumption
25 W
Power Options
Power over Ethernet