

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

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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



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Network Interfaces

Wireless Interfaces

Topology:	Point-to-Multipoint (P2MP)	Max. Clients:	120
Max. Throughput:	1200 Mb/s	Aggregate Channel Width:	80 MHz
Encryption:	AES-128		
Transmit Power:	32 dBm	Receive Sensitivity:	-92 dBm
Beamforming:	2DBF		

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	Dimensions:	45 × 137 × 330 mm
Max. Operating Temperature:	55 °C	Weight:	1.3 kg
Ingress Protection:	IP55	Materials:	Plastic
		Compliance/Certifications:	R-NZ ,
		RCM	

Power Specifications

Max. Consumption:	25 W
Power Options:	Power over Ethernet

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