

CB-EPMP-3000-FSR

Cambium ePMP 3000 5GHz AC Wave 2 4x4 MU-MIMO FSR 5.1-5.98 GHz Access Point

Product Overview

Cambium ePMP 3000 5GHz AC Wave 2 4x4 MU-MIMO FSR 5.1-5.98 GHz Access Point, CB-EPMP-3000, SMA RP connectors, 802.3at, 56V PoE included, 1x Gigabit LAN Port, Up to 120 subscribers per Sector



Specifications

Overview Summary:

The Cambium ePMP 3000 is a robust 5 GHz AC Wave 2 4x4 MU-MIMO access point built for dense fixed wireless and enterprise network deployments, delivering sector throughput efficiency and support for up to 120 simultaneous subscribers. With support across 5.1-5.98 GHz and advanced interference tolerance, this access point delivers high performance and scalable connectivity ideal for Internet service providers and network professionals. Buy now to enhance your wireless infrastructure with dependable sector capacity and modern protocol support. Cambium Networks+1

Designed for reliability in challenging spectrum environments and compatible with GPS synchronization and frequency reuse techniques, the ePMP 3000 is suitable for high-traffic coverage areas where consistent performance is essential. Shop now to deploy a powerful access point that supports extensive network growth and quality of service features tailored to professional fixed wireless applications. Cambium Networks

Performance tier:Enterprise-grade fixed wireless access

Uses:fixed wireless broadband, enterprise network access, ISP sector deployments, high-density subscriber coverage, scalable outdoor wireless connectivity

Overview:

High Capacity 5 GHz Access Point for Dense Wireless Networks

The Cambium ePMP 3000 is engineered to deliver high throughput and reliable connectivity in demanding wireless environments. Operating across the 5.1 to 5.98 GHz spectrum, this 4x4 MU-MIMO access point leverages AC Wave 2 technology to maximize sector efficiency and network scalability. It is designed for service providers and enterprise deployments that require consistent performance even in high-interference scenarios, while supporting a large number of simultaneous subscribers.

Description:

The ePMP 3000 access point provides advanced wireless performance through 4x4 MU-MIMO technology, allowing multiple subscribers to be served at the same time without compromising throughput. It incorporates intelligent interference mitigation, GPS synchronization for frequency reuse, and an efficient MAC protocol to maintain stable connectivity in crowded RF environments. With support for up to 120 subscriber modules per sector, flexible channel bandwidths, and robust QoS controls, it is well suited for fixed wireless access networks that demand scalability, efficiency, and reliability. The inclusion of 56V PoE simplifies deployment, while its compatibility with modern networking protocols ensures seamless integration into existing infrastructure.

Features:**Performance and Network Efficiency**

Built on Cambium Networks' proven platform, the ePMP 3000 improves sector capacity by utilizing MU-MIMO to communicate with multiple devices simultaneously. This significantly enhances throughput without requiring additional spectrum. Its air fairness scheduler ensures that all connected subscribers receive consistent service levels, even as network demand grows.

Interference mitigation is a core strength of this unit. Advanced receive filtering reduces the impact of off-channel signals, while controlled transmission minimizes noise for improved co-location with other radios. These capabilities make it suitable for deployments in congested urban or industrial environments.

Frequency Reuse and Synchronization

The device supports GPS synchronization, enabling efficient frequency reuse across multiple access points. This allows network operators to maximize spectrum utilization while minimizing interference between sectors. Transmit power control further refines performance, ensuring optimal signal distribution across the network.

Deployment Flexibility and Connectivity

Designed for practical field deployment, the unit includes SMA RP connectors for antenna flexibility and supports multiple powering options including 56V PoE and standard 802.3at. A Gigabit Ethernet port ensures high-speed backhaul connectivity, while compatibility with IPv4 and IPv6 allows for modern network integration.

Key connectivity and system elements include:

- 1x Gigabit Ethernet port with auto negotiation and 802.3at compliance
- Auxiliary SFP port for extended networking options
- Support for IPv4 and IPv6 along with common protocols such as TCP, UDP, SNMPv2c, HTTPS and SSH
- VLAN support with 802.1Q tagging and priority handling

Scalability and Subscriber Capacity

The ePMP 3000 is designed to scale efficiently, supporting up to 120 active subscribers per sector without performance degradation. This makes it suitable for ISPs and enterprise networks requiring high client density with consistent service quality.

Operational highlights:

- Up to 120 simultaneous subscriber modules per sector
- Adaptive modulation from BPSK to 256 QAM for optimal link performance
- Automatic repeat request for improved data reliability
- Dynamic Spectrum Optimization for real-time channel adjustment

Radio and Spectrum Capabilities

This access point operates across a wide frequency range with flexible channel configurations, allowing it to adapt to various regulatory environments and deployment scenarios.

Core radio parameters:

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Product Specification Sheet

- Frequency range from 4910 MHz to 5980 MHz (subject to local regulations)
- Channel widths of 10, 20, 40 and 80 MHz
- Configurable channel spacing in 5 MHz increments
- 4x4 MU-MIMO with OFDM physical layer

Quality of Service and Network Control

The system includes advanced QoS capabilities to prioritize critical traffic such as voice and high-priority data. Packet classification mechanisms ensure efficient bandwidth allocation across different services and users.

QoS and management capabilities:

- Three-tier traffic prioritization (voice, high, low)
- Classification based on DSCP, VLAN ID, IP and MAC address
- Management via HTTPS, SNMPv2c and SSH
- IGMP snooping and spanning tree protocol support

Technical Summary

- Model: Cambium ePMP 3000 Access Point
- Part Number / SKU: CB-EPMP-3000-FSR
- Technology: 4x4 MU-MIMO, AC Wave 2
- Frequency Band: 5 GHz (5.1 to 5.98 GHz)
- Max Subscribers: Up to 120 per sector
- Power: 56V PoE included, 802.3at compatible
- Interfaces: Gigabit Ethernet, auxiliary SFP
- Synchronization: Integrated GPS support

This access point is positioned as a high-performance solution for operators seeking to expand network capacity, improve spectral efficiency, and maintain reliable service delivery in challenging RF conditions.

Specifications:

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Specifications	
Product Code	CB-EPMP-3000-FSR
SPECTRUM	
Channel Spacing	Configurable on 5 MHz increments
Frequency Range	4910-5980 MHz (exact frequencies as allowed by local regulations)
Channel Width	10 , 20 , 40 , 80 MHz (NOTE: 10 MHz bandwidth is supported only with Force 300-19R SM. Also note that 11n SM's can connect and operate in 10MHz)
INTERFACE	
MAC (Media Access Control) Layer	Cambium Proprietary
Physical Layer	4x4 MUMIMO/OFDM
Ethernet Interfaced	100/1000BaseT, rate auto negotiated, 802.3at compliant & Aux SFP port
Powering Methods Supported	56 V PoE (included), standard 802.3at PoE Supply, or CMM5 with 56 V and 5 pin to 7 pin cross over cable adapter

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Product Specification Sheet

Protocols Used	IPv4/IPv6 , UDP, TCP, IP, ICMP, SNMPv2c, HTTPs, STP, SSH, IGMP Snooping
Network Management	HTTPs, SNMPv2c, SSH
VLAN	802.1Q with 802.1p priority
PERFORMANCE	
Subscribers per Sector	Up to 120
ARQ	Yes
Nominal Receive Sensitivity (w/FEC) @20 MHz Channel	MCS 0 , -92 MCS 8 supported by Wi-Fi -68
Nominal Receive Sensitivity (w/FEC) @40 MHz Channel	MCS0, -89 MCS9, -64
Nominal Receive Sensitivity (w/FEC) @80 MHz Channel	MCS0, -86, MCS9 - 61
Modulation Levels (Adaptive)	MCS0 (BPSK) to MCS 9 (256 QAM 5/6)
GPS Synchronization	Yes, via Internal GPS or Cambium Sync (Internal GPS receiver also contains a patch antenna and can be used without the external puck antenna)
Quality of Service	Three level priority (Voice, High, Low) with packet classification by DSCP, COS, VLAN ID, IP & MAC Address, Broadcast, Multicast and Station Priority, MIR/CIR support
DSO	Dynamic Spectrum Optimization. Ability to change channels based on interference detection on current channel
Fast DFS	Change to alternate radar free channel with background availability check

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/CB-EPMP-3000-FSR-Cambium-ePMP-3000-5GHz-AC-Wave-2-4x4-Buy-p-335802.php>

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