Item no.: 332421

C050910A203A - ePMP 3000 1Gbps data rate 4910-5980 MHz 20/40/80 MHz channel width 4x4 MIMO

from **1.210,71 EUR**

Item no.: 332421
shipping weight: 2.10 kg
Manufacturer: Cambium Networks

Product Description

ePMP 3000 4X4 sector antenna 17 dBi gain 4X4 Multi User MIMO Capability

Cambium Networks ePMP product line has set the standard for high performance, scalability and reliability in harsh interference environments all at a compelling price. The ePMP 3000 is the third generation access point (AP) that 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. In addition, 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 antenna and a 25 dBi and 16 dBi subscriber modules.

The ePMP 3000 system boasts high packet per second performance, peak throughput of 1.2 Gbps and supporting subscriber modules with 600 Mbps of peak throughput.

Key Advantages:

- Frequency Reuse: Supports GPS synchronization and SM Transmit power control to allow for frequency e-use.
- Unmatched Performance and Scalability: With the efficient Cambium Networks MAC protocol and advanced air-fairness scheduler up to 120 simultaneously active subscriber modules can be served without performance degradation.
- Industry-Leading Interference Tolerance: The intelligent filtering capability on the receive side akes the ePMP 3000 immune to the effects of strong off-channel interferers and on the transmit side serves to reduce off-channel noise for better radio co-location.
- Industry-Leading Spectral Efficiency: MU-MIMO in the downlink doubles the sector capacity by serving two MIMO users at the same time.

Key Specifications:

- MU-MIMO support with peak throughput of 1.2 Gbps 256QAM-5/6, 80 MHz support
- Supports a wide frequency range: 4910 – 5970 MHz
- 802.3at compliant 100/1000BaseT interface
- Frequency re-use with GPS sync, interference mitigation with beam steering antenna and dynamic filtering

Spectrum

- Channel Spacing: Configurable on 5 MHz increments
- Frequency Range: 4910 – 5980 MHz (exact frequencies as allowed by local regulations)
- Channel Width: 20 | 40 | 80 MHz

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
- 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) (at)20 MHz Channel: MCS 0 , -92 MCS 8 supported by Wi-Fi -68
- Nominal Receive Sensitivity (w/FEC) (at)40 MHz Channel: MCS0, -89 MCS9, -64
- Nominal Receive Sensitivity (w/FEC) (at)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

Link Budget

- Antenna: Sector Antenna (C050910D301A) Available
- Transmit Power Range: 0 to +32 dBm (combined, to regional EIRP limit) (2 dB interval)

Physical

- Sector Antenna Connection: 4 x 50 ohm, RP (Reverse Polarity) SMA
- Beamforming Antenna Connection: 2 x 50 ohm, RP (Reverse Polarity) SMA, DC Coupled (powering antenna)
- GPS Antenna Connection: 1 x 50 ohm, RP (Reverse Polarity) SMA
- Surge Suppression: 1 Joule Integrated. C000000L033A - 56V Gigabit surge suppressor recommended for ptimal surge protection
- Environmental: IP55
- Temperature: -30 °C to +55 °C
- Power Consumption: 25 W Maximum 1
- Input Voltage: 44 V to 59 V
- Weight: 1.3 kg without brackets
- Dimensions 137 mm x 330 mm x 45 mm without brackets

Security

- Encryption: 128 bit AES (CCMP mode)

Certifications

- FCCID: Z8H-89FT0024
- INDUSTRY CANADA: 109W-0024
- CE: EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)

Specifications