ePMP Force 4518 Subscriber Module

ePMP 4518 Quick Look

- High-performance for PTP and PMP fixed wireless broadband applications
- Gbps capacity leveraging 80 MHz channels
- Compatible with ePMP™ 4500 Series APs for MU-MIMO performance
- 3-year hardware warranty







Service providers face ever-increasing demand for capacity in a limited amount of spectrum. The ePMP Force 4518 Subscriber Modules (SM) meet this demand by offering high performance and low latency across both point-to-multipoint (PMP) and point-to-point (PTP) deployments.

Differentiating Features:

- Small form factor popular for dense areas and where aesthetic is critical, with an integrated 18 dBi panel antenna.
- High performance with up to 80 MHz channels, 1024QAM and low-latency performance when using ePTP technology
- Interoperability with the ePMP 4500, which uses MU-MIMO to achieve up to multiple Gbps per sector by transmitting to 3 ePMP 4500 SMs simultaneously
- Multiple levels of QoS (Quality of Service) for voice, video, and data applications, supporting a wide variety of service packages for both residential and enterprise users
- Security features meeting the requirements of enterprise, industry, government, and service provider users
- Management by Cambium Networks cnMaestro™ network management system for easy provisioning, monitoring, and upgrades
- Network planning with LINKPlanner and cnHeat
- Cambium Networks' 3-year hardware warranty and support
- Includes Power over Ethernet (PoE) injector and pole mount hardware

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Spectrum

Channel Width MHz	20 | 40 | 80 MHz
Proprietary Physical Layer	2x2 MIMO/OFDMA
Channel Spacing	Configurable in 5 MHz increments
Frequency Range*	Wide band operation 5150–5920 MHz
MAC Layer (Media Access Control)	Cambium proprietary
Ethernet Interface	100/1000 BaseT, compatible with Cambium PoE & standard PoE pinouts
Protocols Used	IPv4/IPv6 (Dual Stack), UDP, TCP, ICMP, SNMPv2c, NTP, STP, IGMP, SSH
Network Management	IPv4/IPv6, HTTPs, SNMPv2c, SSH, cnMaestro
VLAN	802.1Q with 802.1p priority

*Allowable frequencies and bands are dictated by individual country regulations.

Performance

ARQ	Yes
Nominal Receive Sensitivity (w/FEC) @20 MHz Channel	MCS 1 = -84 dBm to MCS 11 (1024 QAM-5/6) = -53 dBm (per chain)
Nominal Receive Sensitivity (w/FEC) @40 MHz Channel	MCS 1 = -82 dBm to MCS 11 (1024 QAM-5/6) = -52 dBm (per chain)
Nominal Receive Sensitivity (w/FEC) @80 MHz Channel	MCS 1 = -80 dBm to MCS 11 (1024 QAM-5/6) = -50 dBm (per chain)
Modulation Levels (Adaptive)	MCS 1 (QPSK) to MCS 11 (1024 QAM-5/6)
Transmit Power Range	+3 to +28 dBm (combined, to regional EIRP limit) (1 dB interval)
QoS (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

Physical

Surge Suppression	1 joule integrated
Environmental	IP55
Temperature	-40°C to 55°C (-40°F to 131°F)
Weight	0.66 kg (1.45 lb)
Wind Survival	200 km/hr (124 mi/hr)
Dimensions (Dia x Depth)	180 x 210 x 39 mm (7.08 x 8.27 x 1.54 in)
Pole Diameter Range	Center: 3.1 to 7.6 cm (1.25 to 3.0 in)
Power Consumption	13W
Input Voltage	Passive PoE 27–59V

Certifications

FCCID	Z8H89FT0088
Industry Canada Cert	109W-0088
CE	See Cambium website for Declaration of Conformity

Security

Encryption	128-bit AES (CCMP mode), 256-bit AES optional, where allowed

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Ordering Information

C050940C031A	ePMP 5 GHz Force 4518 SM Radio (ROW) (no cord)
C050940C131A	ePMP 5 GHz Force 4518 SM Radio (ROW) (US cord)
C050940C231A	ePMP 5 GHz Force 4518 SM Radio (ROW) (EU cord)
C050940C233A	ePMP 5 GHz Force 4518 SM Radio (EU) (EU cord)
C050940C331A	ePMP 5 GHz Force 4518 SM Radio (ROW) (UK cord)
C050940C333A	ePMP 5 GHz Force 4518 SM Radio (EU) (UK cord)
C050940C431A	ePMP 5 GHz Force 4518 SM Radio (ROW) (India cord)
C050940C435A	ePMP 5 GHz Force 4518 SM Radio (India) (India Cord)
C050940C531A	ePMP 5 GHz Force 4518 SM Radio (ROW) (China cord)
C050940C631A	ePMP 5 GHz Force 4518 SM Radio (ROW) (Brazil cord)
C050940C731A	ePMP 5 GHz Force 4518 SM Radio (ROW) (Argentina cord)
C050940C831A	ePMP 5 GHz Force 4518 SM Radio (ROW) (ANZ cord)
C050940C931A	ePMP 5 GHz Force 4518 SM Radio (ROW) (South Africa cord)
C050940C236A	ePMP 5 GHz Force 4518 SM Radio (Indonesia) (EU Cord)
C058940C132A	ePMP 5 GHz Force 4518 SM Radio (FCC) (US Cord)
C058940C134A	ePMP 5 GHz Force 4518 SM Radio (IC) (Canada/US cord)

ABOUT CAMBIUM NETWORKS

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.

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