

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:

- High capacity and latencies less than 5 ms when using ePTP technology
- Interoperability with the ePMP 4500, which uses MU-MIMO to achieve up to 4 Gbps per sector by transmitting to four ePMP 4500 SMs simultaneously
- 1024QAM and an integrated 18 dBi flat panel
- 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 Operation under AFC (automatic frequency coordination) control in FCC jurisdictions.
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.

Physical	
Surge Suppression	1 joule integrated
Environmental	IP55
Temperature	-30°C to 55°C (-22°F to 131°F)
Weight	TBD Kg (TBD lb)
Wind Survival	TBD km/hr (TBD 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

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

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

Certifications	
FCCID	TBD
FCC Regulatory Part #	TBD
ETSI Regulatory Part #	N/A
Industry Canada Cert	TBD
CE	See Cambium website for Declaration of Conformity
FCCID	TBD

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Force 4518 Antenna Patterns

Azimuth Horizontal

Azimuth Vertical

Elevation Horizontal

Elevation Vertical

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Force 4518



Ordering Information

C050940C031A	ePMP 5 GHz Force 4518 SM Radio (ROW) (no cord)
C050940C131A	ePMP 5 GHz Force 4518 SM Radio (ROW) (US cord)
C058940C134A	ePMP 5 GHz Force 4518 SM Radio (IC) (Canada/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)
C058940C132A	ePMP 5 GHz Force 4518 SM Radio (FCC) (US Cord)
C050940C236A	ePMP 5 GHz Force 4518 SM Radio (Indonesia) (EU Cord)

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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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