

# 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 aesthetics are 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

## ePMP Force 4518 Subscriber Module

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	-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

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

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

## ePMP Force 4518 Subscriber Module



### 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)

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