

# ePMP™ Force 130

## 5 GHz models



Wireless service providers and enterprises around the globe are challenged to deliver reliable connectivity in overcrowded RF environments. As spectrum increasingly becomes a scarce commodity, finding the right broadband connectivity solution is vital for all low and high density types of deployments.

### FEATURES:

- Cambium Networks' ePMP™ Force 130 is an affordable subscriber module particularly well-suited for markets where price is key.
- The ePMP Force 130 is designed to operate in high interference environments and provides throughput of up to 140 Mbps with bi-directional traffic of real user data.
- Configurable Modes of operation ensure robust adaptivity to both symmetrical and asymmetrical traffic while providing high performance and low round-trip latency.
- QoS management offers outstanding quality for triple play services – VoIP, video and data and provides three levels of traffic priority.
- The ePMP Force 130 is available in both 5 GHz and 2.4 GHz options. (See 2.4 GHz spec sheet for additional details on that band.)
- Installation is a breeze for pole and wall mounting.
- The ePMP Force 130 is compatible with ePMP 1000 and ePMP 2000 Access Points. It also inter-operates with the ePMP 3000 in backwards compatible 802.11n mode.
- The ePMP Force 130 is available in EMEA, CALA and APAC regions where type approved. It is NOT available in North America.

### SPECTRUM

Channel Spacing	Configurable on 5 MHz increments
Frequency Range	5150- 5970 MHz
Channel Width	5   10   20   40 MHz

### INTERFACE

MAC (Media Access Control) Layer	Cambium Proprietary
Physical Layer	2x2 MIMO/OFDM
Ethernet Interface	10/100 BaseT
Protocols Used	IPv4, IPv6, UDP, TCP, IP, ICMP, SNMPv2c, HTTPs, STP, SSH, 24V POE, IGMP Snooping
Network Management	HTTPs, SNMPv2c, SSH
VLAN	802.1Q with 802.1p priority

## SPECIFICATIONS

### PERFORMANCE

ARQ	Yes
Nominal Receive Sensitivity (w/FEC) @20 MHz Channel	MCS0 -88 dBm to MCS15 = -70 dBm at MCS7 for 20 MHz
Nominal Receive Sensitivity (w/FEC) @40 MHz Channel	MCS0 = -86 dBm to MCS15 = -68 dBm at MCS7 for 40 MHz
Modulation Levels(Adaptive)	MCS0 (BPSK) to MCS15 (64QAM 5/6)
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
Transmit Power Range	+3 to 28 dBm (combined, to regional EIRP limit) (1 dB interval)
Antenna Gain	14 dBi

### PHYSICAL

Surge Suppression	1 Joule Integrated
Environmental	IP55
Temperature	-30°C to +55°C (-22°F to +122°F)
Weight	0.35 kg (0.88 lbs)
Wind Survival	125 km/hour (78 mi/hour)
Dimensions (H x W x D)	235 x 77 x 58 mm
Pole Diameter Range	3.8 cm – 6.4 cm (1.5 in – 2.5 in)
Power Consumption	8 W Maximum, 5 W Typical
Input Voltage	24 V; uses standard passive PoE injectors at 24V. Not compatible with 29V supplies

### SECURITY

Encryption	128-bit AES (CCMP mode)
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### CERTIFICATIONS

CE	DoC pending
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### PART NUMBER

### DESCRIPTION

C050900C502A	ePMP 5 GHz Force 130 SM (EU) (EU cord)
C050900C503A	ePMP 5 GHz Force 130 SM (EU) (UK cord)
C050900C504A	ePMP 5 GHz Force 130 SM (ROW) (no cord)
C050900C505A	ePMP 5 GHz Force 130 SM (ROW) (US cord)
C050900C506A	ePMP 5 GHz Force 130 SM (ROW) (EU cord)
C050900C507A	ePMP 5 GHz Force 130 SM (ROW) (UK cord)
C050900C508A	ePMP 5 GHz Force 130 SM (ROW) (India cord)
C050900C509A	ePMP 5 GHz Force 130 SM (India) (India cord)
C050900C510A	ePMP 5 GHz Force 130 SM (ROW) (China cord)
C050900C511A	ePMP 5 GHz Force 130 SM (ROW) (Brazil cord)
C050900C512A	ePMP 5 GHz Force 130 SM (ROW) (Argentina cord)
C050900C513A	ePMP 5 GHz Force 130 SM (ROW) (ANZ cord)
C050900C514A	ePMP 5 GHz Force 130 SM (ROW) (South Africa cord)
C050900C515A	ePMP 5 GHz Force 130 SM (ROW) (No PSU)

## SPECIFICATIONS

**ANTENNA SPECIFICATIONS 5 GHZ SPECIFICATION**

Frequency Range	5.150 – 5.970 MHz
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Antenna Type	Flat panel
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Peak Gain	14 dBi
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3dB Beamwidth-Azimuth	45 degrees
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3dB Beamwidth-Elevation	15 degrees
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