ePMP™ Force 130

2.4 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 5 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 Access Points.
- The ePMP Force 130 is available in EMEA, CALA and APAC regions where type approved. It is NOT avaialble in North America.

SPECTRUM	
Channel Spacing	Configurable on 5 MHz increments
Frequency Range	2402 - 2472 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 31 dBm (combined, to regional EIRP limit) (1 dB interval)
Antenna Gain	12 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)

CERTIFICATIONS

PART NUMBER	DESCRIPTION
C024900C603A	ePMP 2.4 GHz Force 130 SM (ROW) (no cord)
C024900C604A	ePMP 2.4 GHz Force 130 SM (ROW) (US cord)
C024900C605A	ePMP 2.4 GHz Force 130 SM (ROW) (EU cord)
C024900C606A	ePMP 2.4 GHz Force 130 SM (ROW) (UK cord)
C024900C607A	ePMP 2.4 GHz Force 130 SM (ROW) (India cord)
C024900C609A	ePMP 2.4 GHz Force 130 SM (ROW) (China cord)
C024900C610A	ePMP 2.4 GHz Force 130 SM (ROW) (Brazil cord)
C024900C611A	ePMP 2.4 GHz Force 130 SM (ROW) (Argentina cord)
C024900C612A	ePMP 2.4 GHz Force 130 SM (ROW) (ANZ cord)
C024900C613A	ePMP 2.4 GHz Force 130 SM (ROW) (South Africa cord)
C024900C614A	ePMP 2.4 GHz Force 130 SM (ROW) (No PSU)
C050900C513A	ePMP 5 GHz Force 130 SM (ROW) (ANZ cord)

SPECIFICATIONS

ANTENNA SPECIFICATIONS	5 GHZ SPECIFICATION
Frequency Range	2402 – 2472 MHz
Antenna Type	Flat panel
Peak Gain	12 dBi
3dB Beamwidth-Azimuth	45 degrees
3dB Beamwidth-Elevation	15 degrees