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 round-trip latency as low as 2 – 3 ms.
- 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.

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	0 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
SECURITY	
Encryption	128-bit AES (CCMP mode)
CERTIFICATIONS	
FCCID	TBD
Industry Canada Cert	TBD
CE	TBD

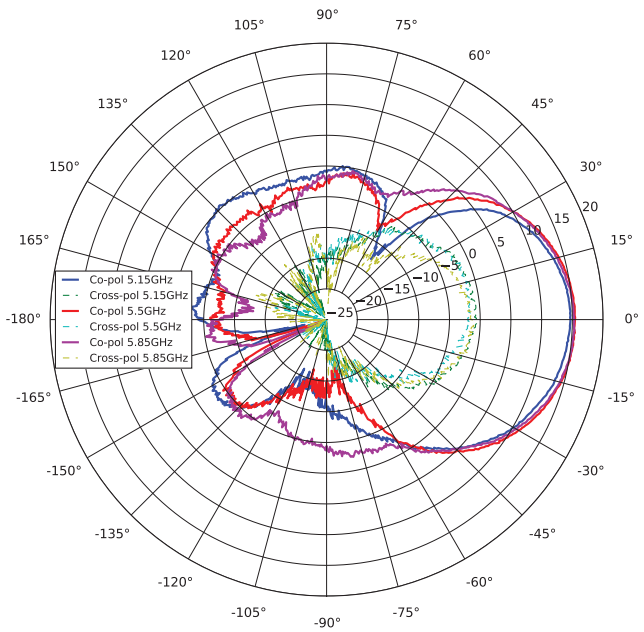
PART NUMBER	**DESCRIPTION**
C050900C502A	ePMP 5 GHz Force 130 SM (EU) (EU cord)
C050900C503A	ePMP 5 GHz Force 130 SM (EU) (UK cord)
C050900C504A	ePMP 5 GHz Force 130 SM (ROW) (no cord)
C050900C505A	ePMP 5 GHz Force 130 SM (ROW) (US cord)
C050900C506A	ePMP 5 GHz Force 130 SM (ROW) (EU cord)
C050900C507A	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

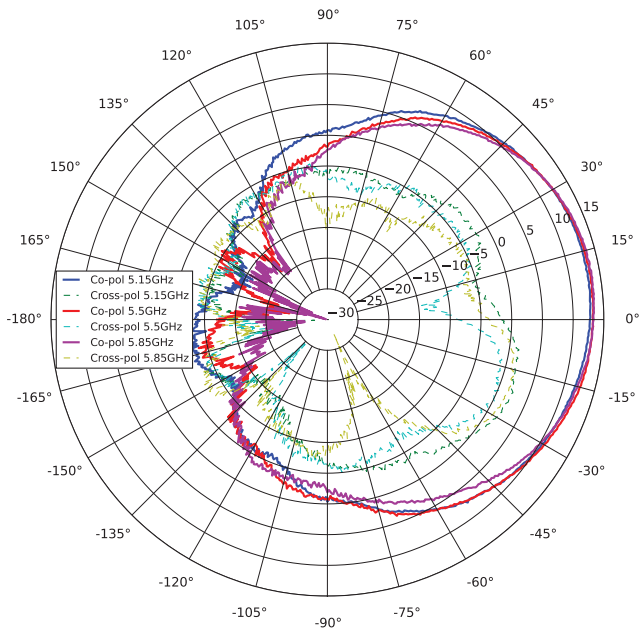
ANTENNA SPECIFICATIONS	5 GHZ SPECIFICATION
Frequency Range	5.150 – 5.970 MHz
Antenna Type	Flat panel
Peak Gain	14 dBi
3dB Beamwidth-Azimuth	45 degrees
3dB Beamwidth-Elevation	15 degrees

ANTENNA PATTERNS

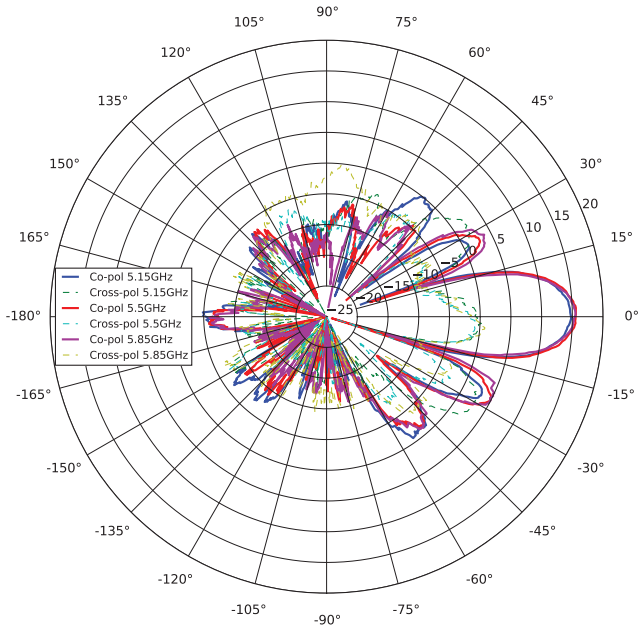
Azimuth, Horizontal



Azimuth, Vertical



Elevation, Horizontal



Elevation, Vertical