



ePMP™ FORCE 200 for 5 GHz



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

Cambium Networks resolves this challenge with a breakthrough technology solution that delivers superior performance, resiliency and reach in the most congested environments. The ePMP Force 200 high gain integrated solution enhances range and improves throughput in high interference environments. ePMP Force 200 is a completely redesigned solution from Cambium Networks that combines a highly integrated, high performance radio with a high gain dish antenna. The radio supports a gigabit Ethernet interface in order to provide maximum throughput. Operating in the 5 GHz frequency spectrum, the solution brings wireless broadband connectivity to customers over longer distances and provides a superior return on investment.

FEATURES

- Cambium Networks' ePMP Force 200 is designed to operate in high interference environments and provides superior throughput of over 200 Mbps 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 an outstanding quality for triple play services – VoIP, video and data and provides three levels of traffic priority.
- Long deployment range is enabled by a high gain antenna combined with 30 dBm of transmit power.
- This platform can be configured as a Subscriber Module or a high gain PTP radio.



SPECIFICATIONS

PRODUCT DETAILS

- Model Number : C050900C161A

SPECTRUM

- Channel Spacing : Configurable on 5 MHz increments
- Frequency Range : 4910 - 5970 MHz
- Channel Width : 5 | 10 | 20 | 40 MHz

INTERFACE

- MAC (Media Access Control) Layer : Cambium Proprietary
- Physical Layer : 2x2 MIMO/OFDM
- Ethernet Interfaced : 10/100/1000 BaseT. Compatible with Cambium PoE & Standard PoE pinouts
- Protocols Used : IPv4, UDP, TCP, IP, ICMP, SNMPv2c, HTTPs, STP, SSH, IGMP Snooping
- Network Management : HTTPs, SNMPv2c, SSH
- VLAN : 802.1Q with 802.1p priority

PERFORMANCE

- ARQ : Yes
- Nominal Receive Sensitivity : MCS0 = -92dBm to MCS15 = -68dBm (w/FEC) @20MHz Channel (per branch)
- Nominal Receive Sensitivity : MCS0 = -89dBm to MCS15 = -65dBm (w/FEC) @40MHz Channel (per branch)
- 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 : -15 to +30 dBm (combined, to regional EIRP limit) (1 dB interval)

PHYSICAL

- Surge Suppression : 1 Joule Integrated
- Environmental : IP55
- Temperature : -30°C to +60°C – with radome attached maximum temperature is +47°C
- Weight : 2.3 kg
- Wind Survival : 145 km/hour
- Dimensions (Dia x Depth) : 18.5 x 11.2 inches
- Pole Diameter Range : 2.5 - 3 inches
- Power Consumption : 10 W Maximum, 5 W Typical
- Input Voltage : 10 to 30 V

SECURITY

- Encryption : 128-bit AES (CCMP mode)

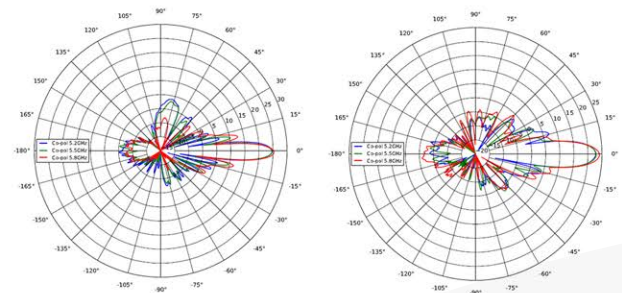
CERTIFICATIONS

- FCCID : Z8H80FT0015
- Industry Canada Cert : 109W-0015
- CE : EN 302 502 v1.2.1, EN 301 893 v1.7.1

ANTENNA SPECIFICATIONS

- Frequency Range : 5150 – 5970 MHz
- Antenna Type : Dish
- Peak Gain : 25 dBi
- 3db Beamwidth-Azimuth : 7°
- 3db Beamwidth-Elevation : 7°
- Front-To-Back Isolation : >25 dB
- Cross Polarisation : >15 dB

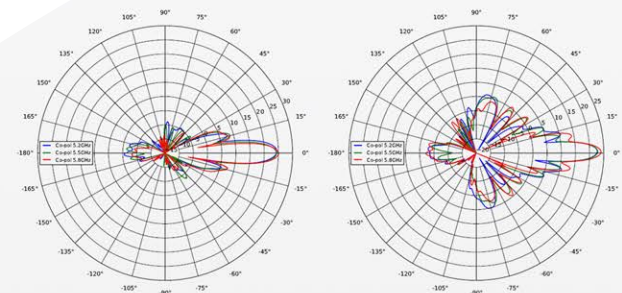
AZIMUTH PATTERNS



H-POL ELEVATION GAIN (dBi)
FOR ZERO AZIMUTH

V-POL ELEVATION GAIN (dBi)
FOR ZERO AZIMUTH

ELEVATION PATTERNS



H-POL ELEVATION GAIN (dBi)
FOR ZERO ELEVATION

V-POL ELEVATION GAIN (dBi)
FOR ZERO ELEVATION

Why Rising Connection is using equipment designed and built by Cambium Networks?

- High quality and worldwide longevity track record of installations across a diverse application base
- Using establish world best practices in design and materials with full support of both Australian and International Standards
- Constant evolution of hardware and improvements in firmware for the benefit of the customer
- Established interoperability with various equipment and propriety security systems
- Full portfolio of solution development services and cloud management

This demonstrates to Rising Connection that you will have the Quality, Reliability and Product Support.