



ePMP™ 1000 Radio 6.4 GHz with GPS Sync



ePMP 1000 Radio 6.4 GHz

Network operators are challenged to deliver reliable connectivity in overcrowded RF environments. As available spectrum becomes more congested, having the right broadband access solution that allows network operators to deliver efficient quality cost effectively, is vital for all types of deployments.

Maximize network performance using ePMP software with eFortify™ and eCommand™ features and tools. eFortify enhances the performance of the ePMP 1000 in high noise environments. eCommand provides a suite of management features and tools to assist network operators in planning, provisioning and monitoring of their network. The ePMP 1000 GPS Sync Radio provides flexibility to grow from a single sector deployment to complex multi-sector / multi-site deployments, as the subscriber base expands.

Now supporting 5.9 to 6.4 GHz frequency support, the ePMP1000 GPS sync can offer frequency re-use support for the 6.4 band.

MAIN DIFFERENTIATORS

- **Innovative GPS Sync technology** enables unparalleled spectrum efficiency. This allows for the configuration of more subscribers in your network while preserving consistency and quality of service in spectrum-constrained environments. GPS Sync leads directly to CAPEX and OPEX reductions, resulting in lower installation costs and maintenance, allowing your business to concentrate on growth and profitability.
- **Quality of Service (QoS)** allows you to confidently offer triple play services – VoIP (Voice over IP), video and data. Providing your customers with excellent service quality ensures their continued loyalty and transforms them into advocates, helping WISPs and enterprises expand their business.
- **Proven reliability** has created an unsurpassed connectivity standard in many industries that depend on fixed wireless broadband. Our products undergo rigorous testing and are made from high-quality components.

POWERFUL FEATURES

The Cambium Networks ePMP 1000 GPS Sync Radio provides more than 200 Mbps of real user throughput. Using 2x2 MIMO-OFDM technologies, ePMP deployments achieve industry leading data rates.

Utilizing GPS sync, the ePMP is an ideal fit for networks that require capacity and reliability for superior QoS in remote and underserved areas. This integrated PTP and PMP solution features an efficient GPS synchronized operational mode that permits highly scalable frequency reuse.

When deployed with a sector antenna, the ePMP 1000 GPS Sync Radio can be configured as a GPS Synchronized Access Point serving ePMP Integrated Radios configured as Subscriber Modules. When deployed with a high gain point to point antenna, the ePMP GPS Sync Radio can be configured to be a GPS Synchronized Backhaul Master, forming a PTP link with another ePMP Radio module.

SPECIFICATIONS

PRODUCT	
Model Number	C060900A211A (RoW) (EU Power Cord) with Sync
SPECTRUM	
Channel Spacing	Configurable on 5 MHz increments
Frequency Range	5 GHz – 6.4 GHz: 5920 – 6420 MHz (exact frequencies as allowed by local regulations)
Channel Width	5 10 20 40 MHz
INTERFACE	
MAC (Media Access Controller) Layer	Cambium Proprietary
Physical Layer	2x2 MIMO/OFDM
Ethernet Interface	100/1000BaseT, rate auto negotiated (802.3af compliant)
Powering Methods Supported	30V PoE Supply (included), CMM5, 802.3af PoE Supply
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	
Subscribers Per Sector	Up to 120 Yes
ARQ	Yes
Nominal Receive Sensitivity (w/ FEC) @ 20MHz Channel	MCS0 = -93 dBm to MCS15 = -69 dBm (per branch)
Nominal Receive Sensitivity (w/ FEC) @ 40MHz Channel	MCS0 = -90 dBm to MCS15 = -66 dBm (per branch)
Modulation Levels (Adaptive)	MCS0 (BPSK) to MCS15 (64QAM 5/6)
GPS Synchronization	Yes, via Internal GPS, CMM3, or CMM4
Quality of Service	Three level priority (Voice, High, Low) with packet classification by DSCP, COS, VLAN ID, IP & MAC Addr, Broadcast, Multicast and Station Priority
LINK BUDGET	
Antenna	Optional 3rd Party Antennas Available http://www.mars-antennas.com/MA-WD62-DP16 http://www.mars-antennas.com/MA-WC62-DP17 http://rfeng.ru/catalog/230.htm http://itelite.net/antennas/PRO-SEC6418DP
Transmit Power Range	Up to 30 dBm (5960-6160) 24dBm (6160-6400)
PHYSICAL	
Antenna Connection	50 ohm, RP (Reverse Polarity) SMA 1 Joule Integrated
Surge Suppression	1 Joule Integrated
Environmental	IP55
Temperature	-30°C to +60°C (-22°F to +140°F)
Weight	5.1 kg (10 lbs) with antenna 0.52 kg (1.1 lbs) without antenna
Wind Survival	145 km/hour (90 mi/hour) with antenna
Dimensions (H x W x D)	Radio: 26.9 x 11 x 7.7 cm (10.6 x 4.3 x 3.0 in) AAntenna (incl brackets): 80cm x 22.5cm x 24cm (31.5 x 8.9 x 9.4 in)
Power Consumption	10 W Maximum, 7.5 W Typical
Input Voltage	23 to 56 V
SECURITY	
Encryption	128-bit AES (CCMP mode)