

ePMP™ 1000 Connectorized Radio

Wireless service providers and enterprises need reliable, high-quality broadband connectivity that can be rapidly deployed and expanded. The ePMP architecture provides highly scalable broadband access solution that will allow you to build and expand your network with a faster return on investment. Cambium Networks' radios deliver bandwidth-intensive services such as VoIP, video and data to end users in multiple vertical markets, with high performance and exceptional reliability.

Using the 2.5 GHz frequency spectrum, the ePMP architecture is the most effective connectivity solution for reaching the under- and unconnected around the world.



ePMP 1000 Connectorized Radio

Main Differentiators

- » **GROWTH AND SCALABILITY** offer wireless service providers the opportunity to expand the reach of their networks into underserved areas. ePMP 1000 delivers high capacity and reliable connectivity right from the start. As a provider's business grows, it can expand its network while ensuring resiliency and increasing 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.
- » **CAMBIUM NETWORKS' 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

Cambium Networks' ePMP 1000 Connectorized Radio provides more than 150 Mbps of real user throughput. Using 2x2 MIMO-OFDM technologies, ePMP deployments achieve industry leading data rates.

The ePMP 1000 Connectorized Radio has the flexibility to connect to a variety of external antennas such as 90 and 120 degree sector, omni and high-gain panel or dish antennas. This versatility allows service providers to configure their network using high gain antennas to satisfy the most challenging environments.

The ePMP 1000 Connectorized Radio can be configured as a Subscriber Module, an unsynchronized Access Point, or a Backhaul radio. This radio will function as a client (slave) to an ePMP GPS Synchronized Radio in either a PMP or PTP deployment forming a GPS Synchronized solution.

Product

MODEL NUMBER 2.5 GHz: C025900P621A / C025900A621A

Spectrum

CHANNEL SPACING Configurable on 5 MHz increments

FREQUENCY RANGE 2.5 GHz: 2570 – 2620 MHz

CHANNEL WIDTH 5 | 10 | 20 | 40 MHz

Interface

MAC (MEDIA ACCESS CONTROL) LAYER Cambium Proprietary

PHYSICAL LAYER 2x2 MIMO/OFDM

ETHERNET INTERFACE 100 BaseT, Cambium PoE (V+ = pins 7 & 8, Return = pins 4 & 5)

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 (W/ FEC) @ 20MHZ CHANNEL MCS0 = -93 dBm to MCS15 = -69 dBm (per branch)

NOMINAL SENSITIVITY (W/ FEC) @ 40MHZ CHANNEL MCS0 = -90 dBm to MCS15 = -66 dBm (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 Addr, Broadcast, Multicast and Station Priority

Link Budget

TRANSMIT POWER RANGE -17 to +26 dBm (combined, to regional EIRP limit) (1 dB interval)

Physical

ANTENNA CONNECTION 50 ohm, RP (Reverse Polarity) SMA (2)

SURGE SUPPRESSION 1 Joule Integrated

ENVIRONMENTAL IP55

TEMPERATURE -30°C to +60°C (-22°F to +140°F)

WEIGHT 0.49 kg (1.1 lb.)

WIND SURVIVAL 145 km/hour (90 mi/hour) when mounted on ePMP Sector Antennas

DIMENSIONS (H x W x D) 29.1 x 14.5 x 8.3 cm (11.4 x 5.7 x 3.3 in)

POWER CONSUMPTION 7 W Maximum, 5 W Typical

INPUT VOLTAGE 10 to 30 V

Security

ENCRYPTION 128-bit AES (CCMP mode)