



Cambium Networks™

# SOLUTION GUIDE

OUR RESOURCES ARE YOUR SOLUTION



**CONNECTRONICS**

Distributors of  Wireless and Connectivity Products



CONNECT THE UNCONNECTED

Cambium Networks connectivity solutions enable network operators to tailor connectivity to meet immediate needs and scale as needs grow. Through its extensive portfolio of reliable, scalable and secure WiFi and wireless broadband point-to-point (PTP) and point-to-multipoint (PMP) platforms managed by cloud-based software, Cambium Networks makes it possible for all service providers; enterprises; governmental and military agencies; oil, gas and utility companies; Internet service providers; and public safety networks to build powerful communications networks, reach users from 200 kilometers across mountain tops down to the last meter to their devices and intelligently manage their infrastructure through end-to-end network visibility and actionable analytics.

## Point-to-Point Licensed



PTP 820G



PTP 820C  
PTP 820S

### PTP 820 Product Series Highlights

- Up to 2048 QAM, with 11 step hitless and errorless Adaptive Coding & Modulation (ACM) for high reliability
- Multigigabits radio capacity with high spectral efficiency
- TDM and /or packet supporting legacy services an evolution to all-packet
- Integrated Ethernet Seitch, MEF Carrier Ethernet 2.0 complian, MPLS-TP-ready
- Intelligent service-centric management utilizing Hieracheal QoS and advanced OA&M capabilities
- Integrated synchronization solution: Native/SycE/IEEE 1588v2
- Lowest power consumption with adaptive green mode
- Low Latency with unique frame cut-through for latency sensitive services

RFU Featureset	820C	820S	820G
Frequency	6-42 GHz	6-42 GHz	6-42 GHz
Capacity	1.21 Gbps	605 Mbps	486 Mbps (1+0) 972Mbps (2+0)
Modulation	QPSK-2048QUAM	QPSK-2048QUAM	QPSK-2048QUAM
Max FCC Channel	80MHx	80MHx	80MHx
Max Tx Power	29dBm	29dBm	26dBm
XPIC	X		X
MIMO	X		
PoE	X	X	

## Point-to-Point Unlicensed

PTP 670



Cambium Networks combines best-in-class spectral efficiency and reliability with high-capacity multipoint (HCMP) deployment flexibility. With up to 450 Mbps aggregate throughput, PTP 670 systems let you flexibly, reliably and securely handle today's needs.

PTP 550



Cambium Network is excited to introduced our latest Point to Point Gigabit throughput solution based on 802.11 ac Wave 2 operating in 5 GHz wireless space, that address gigabit capacity need for high speed backhaul solution for mid range and long range applications.

PTP 670		PTP 550	
Frequency	Wide-band operation 4.9 to 6.05 GHz	Frequency	5.150 to 5.950 GHz
Capacity	Up to 450 Mbps aggregate throughput	Capacity	Up to 1.36 Gbps
Latency	1-3 milliseconds one direction	Latency	4-5 ms one direction
Flexible Channel Width	5, 10, 15, 20, 30, 40, and 45 MHz channels	Flexible Channel Width	2 channels, each channel with 20, 40, and 80 MHz
Modulation	BPSK to 256 QAM dual payload MIMO	Modulation	MCS 0 to MCS 9
Security	FIPS-197 compliant 128/256-bit AES Encryption (optional) HTTPS and SNMPv3	Security	128-bit AES Encryption, Factory mode recovery

# Point-to-MultiPoint Unlicensed

## PMP 450m Access Point

PMP 450m with cnMedusa™ Massive MU-MIMO technology delivers ground breaking spectral efficiency in a highly integrated package, while being managed from a single pane of glass in the Cloud.



### Key Features:

- Combines Beam Forming and multiple RF chains to yield more than 3X throughput, simply by changing the AP H
- 14 x 14 MIMO system allows simultaneous communication to up to seven SMs
- Leading Edge antenna innovation brings Smart Beamforming to the 450 platform, ZERO RF cables to connect or weatherproof

## PMP 450i Access Point

The Cambium 450i platform is designed for continued growth, and allows service providers to efficiently and cost-effectively offer popular multi-media services that maximize their revenue. The 450i solution provides reliable coverage across large service areas in urban, suburban, rural and remote locations.



PMP 450i

### Key Features:

- An ultra-wide band radio supports 4900 MHz to 5925 MHz with dynamic interference filtering, improved transmit power and better receive sensitivity.
- Rugged metal enclosure designed to meet IP-66 and IP-67 standards to withstand harsh environments. Optional ATEX/HAXLOC certified models available for hazardous deployments.
- Dynamic Interference Filtering to provide industry leading noise isolation for improved performance.

## WiFi Solutions



cnPilot™ e430W Indoor  
2.4, 5 GHz



cnPilot™ Indoor E410  
2.4, 5 GHz



cnPilot™ Indoor E600  
2.4, 5 GHz



ePMP™ 2000 Hotspot  
5 GHz

## cnMaestro – Simplified Network Management

Available in the cloud and will be deployable on premise

Built from the ground up for secure, end-to-end network lifecycle management

- inventory management
- daily operations
- onboarding devices
- maintenance

By offering full visibility across the entirety of a network, cnMaestro™ greatly simplifies management of all network devices.

Easy to get started

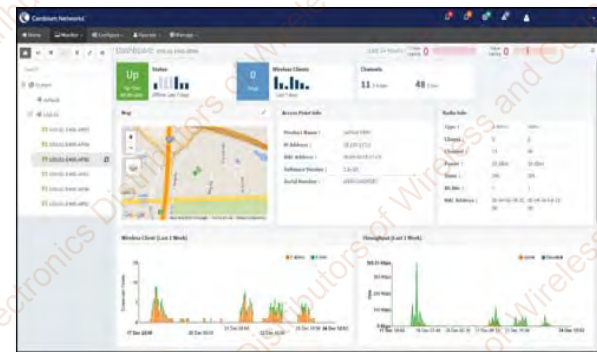
Just create your cloud account and start onboarding your devices  
No servers to purchase and setup

Access from anywhere with a standard web browser

No need to VPN — No need for Java web-clients

Scalable

Platform supports individual cnMaestro accounts up to 10,000 devices  
Leverage the cloud to manage 100,000s devices



cnMaestro