

# PTP 450 900 MHz

The Cambium Networks PTP 450 900 MHz provides excellent near and non line of sight penetration especially well-suited to the needs of rural broadband deployments, SCADA and sensor data backhaul and even video surveillance applications. The PTP 450 900MHz solution is based on the reliable industry-proven Cambium Networks 450 platform.

Key features of PTP 450 900 MHz include:

- Excellent near and non line of sight propagation.
- Up to 130 Mbps capacity in a 20 MHz channel
- Flexible channel selections of 5, 7, 10, 15 or 20 MHz.
- Low power consumption and small form factor.
- Available in Cambium Networks LINKPlanner for simple, accurate planning of capacity and availability.



*PTP 450 900 MHz  
Connectorized Module*



*PTP 450 900 MHz  
(Shown with optional 12 dBi yagi)*

## PRODUCT

Radio Model Number	C009045B001A
Optional 12 dBi Yagi Antenna	N009045D003A
Power Supply	N000900L001B
Line Cords	US: N000900L007A    EU: N000900L008A    UK: N000900L009A

## SPECTRUM

Channel Spacing	Configurable on 0.5 MHz increments
Frequency Range	902 - 928 MHz
Channel Width	5 MHz, 7 MHz, 10 MHz, 15 MHz or 20 MHz

## INTERFACE

MAC (Media Access Control) Layer	Cambium Networks proprietary
Physical Layer	2x2 MIMO OFDM
Ethernet Interface	10/100BaseT, full duplex, rate auto negotiated
Protocols Used	IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP
Network Management	HTTP, HTTPS, Telnet, FTP, SNMP v2 and v3
VLAN	802.1ad (DVLAN Q-inQ), 802.1Q with 802.1p priority, dynamic port VID

## SECURITY

Encryption	56-bit DES, FIPS-197 128-bit AES
------------	----------------------------------

## PERFORMANCE

ARQ	Yes	
Modulation Levels (Adaptive)	MCS	Signal to Noise Required (SNR, in dB)
2X	QPSK	10
4X	16QAM	17
6X	64QAM	24
8X	256QAM	32
Maximum Deployment Range	Up to 122 miles (200 km)	
Latency	3 - 5 ms, typical	
GPS Synchronization	Yes, via Autosync (CMM4 or UGPS)	
Quality of Service	Diffserve QoS	

## LINK BUDGET

Transmit Power Range	-30 dBm to +25 dBm (combined up to EIRP limit by region) (1 dB step)
Maximum Transmit Power	+25 dBm combined output

## PHYSICAL

Antenna Connection	50 ohm, SMA
Surge Suppression	EN61000-4-5: 1.2us/50us, 500 V voltage waveform
Mean Time Between Failure	> 40 Years
Environmental	IP 55
Temperature / Humidity	-40°C to +60°C (-40°F to +140°F), 0-95% non-condensing
Weight	0.45 kg (1 lb.)
Wind Survival	190 km/hour (118 mi/hour)
Dimensions (h x w x d)	Subscriber Module: 30 x 9 x 5 cm (11" x 3.5" x 2")
Power Consumption	12 W typical, 15 W max
Input Voltage	20 - 32 V DC

## CERTIFICATIONS

Industry Canada	109W-0021
FCC ID	Z8H89FT0021