

PTP 450i

Cambium Networks industry-leading 450 platform includes the all new PMP 450i and PTP 450i radios. The 450i product platform is the most scalable industrial-grade wireless broadband solution available.

Kev 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
- Updated FPGA and SoC architecture triples the processing power compared to PMP 450
- **Multifunction AUX port** allows for greater flexibility for deployment by adding a camera or other PoE directly.



PRODUCT							
			RoW	US	EU	DES only	
Model Numbers	5 GHz	Connectorized	C050045B001A	C050045B003A	C050045B005A	C050045B007A	
	5 GHz	Integrated	C050045B002A	C050045B004A	C050045B006A	C050045B008A	
SPECTRUM							
Channel Spacing		Configurable on 2.5 MHz increments					
Frequency Range		4900 - 5925 MHz					
Channel Width		5 MHz, 10 MHz or 20 MHz					
INTERFACE							
MAC (Media Access Control) Layer		Cambium Networks proprietary					
Physical Layer		2x2 MIMO OFDM					
Ethernet Interface		100/1000BaseT, full duplex, rate auto negotiated (802.3 compliant)					
Protocols Used		IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP					
Network Management		HTTP, HTTPS, Telnet, FTP, SNMP v3					
VLAN		802.1ad (DVLAN Q-inQ), 802.1Q with 802.1p priority, dynamic port VID					

Specifications PTP 450i SPECIFICATION SHEET

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 58 to 400 miles minimum, depending on configuration				
Latency	3 - 5 ms, typical				
GPS Synchronization	Yes, via Autosync (CMM3, CMM4)				
Quality of Service	Diffserve QoS				
LINK BUDGET					
Antenna Beam Width 10° azimuth for 23 dBi integrated at		intenna			
Antenna Gain	+23 dBi H+V, integrated or external				
Transmit Power Range	40 dB dynamic range (to EIRP limit by region) (1 dB step)				
Maximum Transmit Power	+27 dBm combined output				
PHYSICAL					
Antenna Connection	50 ohm, N-Type (Connectorized version only)				
Surge Suppression	EN61000-4-5: 1.2us/50us, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000000L033A				
Mean Time Between Failure	> 40 Years				
Environmental	IP66, IP67				
Temperature / Humidity	-40°C to +60°C (-40°F to +140°F), 0-95% non-condensing				
Weight	Connectorized	Approx. 2.0 kg (4.5 lbs)			
	Integrated	Approx. 2.5 kg (5.5 lbs)			
Wind Survival	190 km/hour (118 mi/hour)				
Dimensions (HxWxD)	Connectorized	26.0 x 13.4 x 6.4 cm (10.25" x 5.25" x 3.25")			
	Integrated	31.0 x 31.0 x 6.4 cm (12" x 12" x 2.5")			
Power Consumption	15 W typical, 25 W max, 55 W max with Aux port PoE out enable				
Input Voltage	48-59 V DC, 802.3at compliant				
Mounting	Wall or Pole mount with Cambium Networks Model # N000045L002A				
SECURITY					
Encryption	56-bit DES, FIPS-197 128-bit AES				
CERTIFICATIONS					
Industry Canada	TBD (4.9, 5.4, 5.8 GHz)				
FCC ID	TBD (4.9, 5.4, 5.8 GHz)				
CE	EN 301 893 v1.7.1 (5.4 GHz)				
	EN 302 625 v1.1.1 (Broadband Disas	ster Relief, 4.9 GHz, 5.1 GHz)			
	EN 302 502 v1.2.1 (5.8 GHz)				

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