

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.

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

- 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

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

PERFORMANCE

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 200 kilometers (124 miles) 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 antenna			
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 Disaster Reli	ef, 4.9 GHz, 5.1 GHz)		