

PMP 450i Subscriber Module

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				
Model Numbers	5 GHz	Connectorized	C050045C001A	
		Integrated	C050045C002A	
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			
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 40 miles (64 km)		
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 ar	ntenna	
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	Connectorized	322 km/h (200 mi/h)	
	Integrated	200 km/h (124 mi/h)	
Dimensions (HxWxD)	Connectorized	26.0 x 13.4 x 6.4 cm (10.3" x 5.3" x 3.3")	
	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 enabled		
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	QWP-50450I (4.9, 5.4, 5.8 GHz)		
CE	EN 301 893 v1.7.1 (5.4 GHz)		
	EN 302 625 v1.1.1 (Broadband Disast	er Relief, 4.9 GHz, 5.1 GHz)	

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