

PMP 450i Access Point

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					
		RoW	US	EU	DES only
Model Numbers	Connectorized	C050045A001B	C050045A002B	C050045A003B	C050045A004B
	Integrated 90° sector	C050045A005B	C050045A006B	C050045A007B	C050045A008B
SPECTRUM					
Channel Spacing	Configurable on 2.5 MHz increments				
Frequency Range	4900 - 5925 MHz				
Channel Width	5 MHz, 10 MHz or 20 MHz				

Specifications

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		
PERFORMANCE				
Subscriber Per Sector	Up to 238			
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 Synchroization	Yes, via Autosync (CMM4)			
Quality of Service	Diffserve QoS			
LINK BUDGET				
Antenna Beam Width	90° (3dB rolloff) sector for integrated (Dual polarity, H+V)			
Antenna Gain	16 dBi integrated 90° sector 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 (LPU fitted)	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	IP67, IP66			
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	37.0 x 37.0 x 6.3 cm (14.5" x 14.5" x 3.2")		
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			

Specifications

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, 5.8 GHz)		
CE	EN 301 893 v1.7.1 (5.4 GHz)		
	EN 302 625 v1.1.1 (Broadband Disaster Relief, 4.9 GHz, 5.1 GHz)		
	EN 302 502 v1.2.1 (5.8 GHz)		