PMP 450v 4x4 Fixed Wireless Access Point

PMP 450V AP Quick Look

Deliver high performance to business and residential locations while extending the life of deployed PMP 450 gear. Reduce churn and remain competitive by offering enhanced service plans by providing more bandwidth.

- Operates from 5.15 GHz to 7.125 GHz
- Backward and forward compatible *and* future proof
- 4x4 MIMO access point

cnMaestro

5 GHz to 7 GHz Support in Same Hardware
Easily stock and maintain a single SKU, maintain existing 5 GHz deployment, and expand into 6 GHz.

Backward *and* Forward Compatibility
Leverage existing platform investment, and migrate gracefully to the next generation.

Ultra-Wide-Band Support (Up to 3 x 40 MHz Channels*)
Achieve a total capacity increase with more bandwidth to offer.

Dual Sector Mode
Operate 2 carriers independently (i.e., one 5 GHz and one 6 GHz) with increased flexibility.

Carrier Aggregation
Achieve flexibility in spectrum usage using three channels (component carriers) across two independent carriers of different bandwidths* (e.g., when 5 GHz may be congested requiring smaller channels, and 6 GHz can utilize larger channels).

Model Numbers

	ROW	FCC	ISED	No Encryption
Integrated 90-Degree Sector	C060045A401A	C060045A402A	C060045A403A	C060045A405A

*Future software release

PMP 450v 4x4 Fixed Wireless Access Point

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, IPv6, UDP, TCP/IP, ICMP, Telnet, SNMP, HTTP, FTP
Network Management	IPv4/IPv6 (dual stack), HTTP, HTTPS, Telnet, FTP, SNMPv2c and v3, Cambium Networks cnMaestro™
MTU	1700 bytes
VLAN	802.1ad (DVLAN Q-inQ), 802.1Q with 802.1p priority, dynamic port VID

Performance

Subscribers Per Sector	Up to 238		
ARQ	Yes		
Modulation Levels (Adaptive)		MCS	Signal to Noise Required (SNR, in dB)
	2x	QPSK	10
	3x	8QAM	13
	4x	16QAM	17
	5x	32QAM	21
	6x	64QAM	24
	7x	128QAM	28
	8x	**256QAM**	32
Maximum Deployment Range	Up to 40 mi (64 km)		
Latency	3–5 ms, typical		
GPS Synchronization	Yes, via embedded GPS, or Cambium Sync		
Quality of Service	Diffserve QoS		

Antenna

Integrated Sector Peak Gain	17 dBi ±1 dBi integrated 90°/120° sector
3 dB Beamwidth – Azimuth	±45° (±60° @ 6 dB roll-off)
3 dB Beamwidth – Elevation	5° with null fill
Electrical Downtilt	2°
Polarization	Dual linear, H+V
Front-to-Back Isolation	>30 dB
Cross Polarization	15 dB
VSWR	2:1

PMP 450v 4x4 Fixed Wireless Access Point

Link Budget

Maximum Transmit Power	+28 dBm (MIMO, combined H+V) for 5 GHz, +20 dBm for 6 GHz (may be limited by regulations)
Maximum EIRP	+45 dBm combined output in 5 GHz, +37 dBm in 6 GHz (may be limited by regulations)
Power Control	ATPC (Automatic Transmit Power Control) at system level, all subscribers implement ATPC

Physical

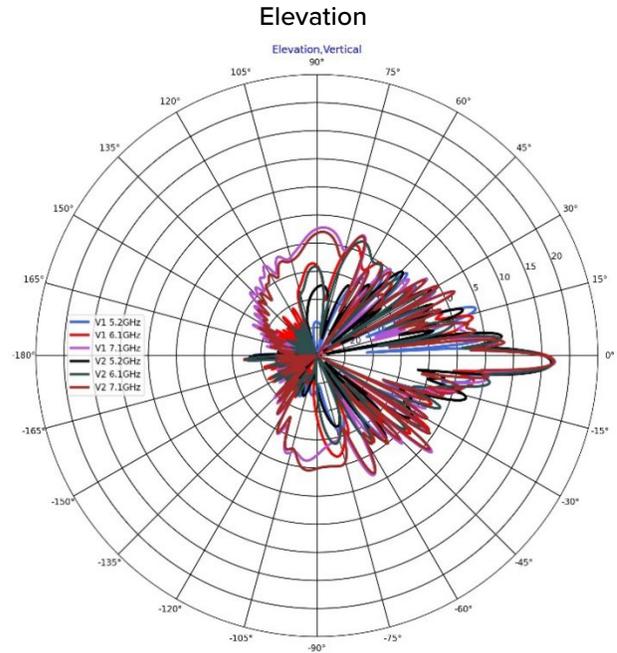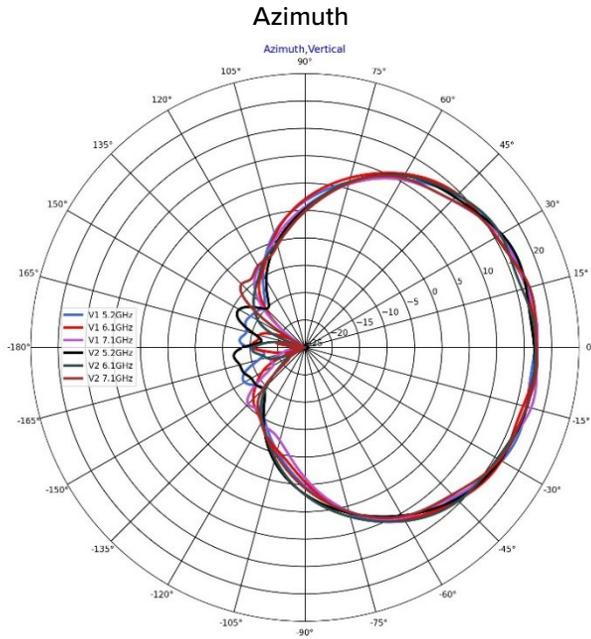|	
Antenna Connection	N/A – Integrated sector antenna
Surge Suppression	EN 61000-4-5: 10x700 µs, 6 kV, EN 61000-4-2: ESD 8 kV contact / 15 kV air Recommended external surge suppressor: Cambium Model # C000000L033A
Mean Time Between Failure	>40 Years
Dust & Water Ingress Protection Rating	IP55
Temperature/ Humidity	-40°C to +60°C (-40°F to +140°F), 0%–100% condensing
Weight	6.3 kg (13.9 lb), 9.1 kg (20 lb) with bracket
Wind Survival	200 kph (124 mph)
Vibration	NEMA TS2 Section 2.1.9 and Section 2.2.3
Shock	NEMA TS2 Section 2.1.10 and Section 2.2.4
External Icing	NEMA 250-2003 Section 5.6
Dimensions (H x W x D)	673 x 222 x 134 mm (26.5 x 8.75 x 5.3 in)
Power Consumption	45W typical, 55W max, using aux port PoE for another device will increase power draw
Input Voltage	48-59 VDC, 802.3bt type 4 class 8 (also accepting passive PoE)

Security

Encryption	FIPS-197 128 bit AES, 256-bit AES (requires optional license)

Certifications

ISED Canada	109W-0081
FCC ID	Z8H89FT0081
CE	TBD

PMP 450v 4x4 Fixed Wireless Access Point

Antenna Patterns

Azimuth

Elevation

ABOUT CAMBIUM NETWORKS

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.

cambiumnetworks.com

09232025