

# 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



#### 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 2 x 100 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 with 2 carriers on 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



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)
2 x	QPSK	10
3 x	8QAM	13
4x	16QAM	17
5 x	32QAM	21
6x	64QAM	24
7x	128QAM	28
8 x	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



Link Budget	
Maximum Transmit	+28 dBm (MIMO, combined H+V) for 5 GHz, +20 dBm for 6 GHz (may be limited by regulations)
Power	
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

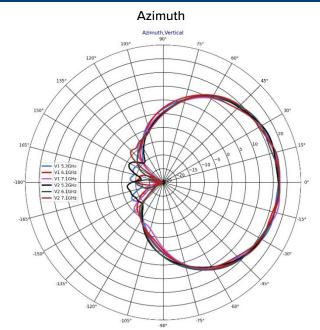
Physical		
Antenna Connection	N/A – Integrated sector antenna	
Surge Suppression	EN 61000-4-5: 10x700 μs, 6 kV, EN 61000-4-2: ESD 8 kV contact / 15 kV air	
	Recommended external surge suppressor: Cambium Model # C00000L033A	
Mean Time Between Failure	>40 Years	
Dust & Water Ingress Protection Rating	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 × W × 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)	

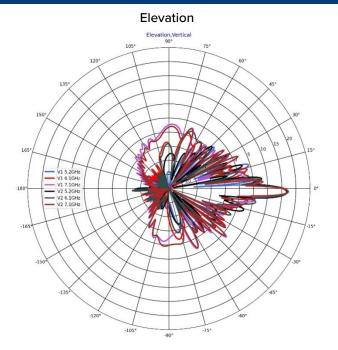
Security	
Encryption	FIPS-197 128 bit AES, 256-bit AES (requires optional license)

Certifications	
ISED Canada	109W-0081
FCC ID	Z8H89FT0081
CE	TBD



# **Antenna Patterns**





#### **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.

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