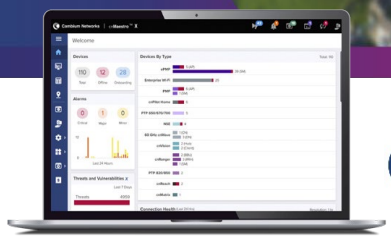
PMP 450i Subscriber Module

PMP 450i SM Quick Look

- Most scalable, industrial-grade wireless broadband solution available
- Ultra-wide-band radios: 5 GHz or 3 GHz
- Rugged metal enclosure
- 2x2 OFDM MIMO radio capable of up to 300 Mbps per sector





cnMaestro

Ultra-Wide-Band Radios

Supports the entire band, whether 5 GHz or 3 GHz. Advanced radio design improves transmit power and increases receive sensitivity.

Rugged Metal Enclosure

Designed to meet IP-66 and IP-67 standards to withstand harsh environments.

Dynamic Interference Filtering

Provides 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.

Options for Integrated 90° Sector Antenna

Optimized for frequency re-use (>35 dB F/B), high gain, null fill, and predictable performance or integrated 10° sector antenna for highly directional sectors.

Increased Throughput

Now capable of up to 300 Mbps per sector in a 40 MHz channel.

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PMP 450i Subscriber Module

Product

		3 GHz	5 GHz
Models	Connectorized	C030045C001B	C050045C001C
	Integrated	C030045C002B	C050045C002D

Spectrum

Channel Spacing	Configurable on 2.5 MHz increments; 3 GHz customizable to 50 KHz	
Frequency Range	3 GHz: 3300–3900 MHz	5 GHz: 4900–5925 MHz
Channel Width	5 MHz, 7 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, or 40 MHz	5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, or 40 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, 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	1,700 bytes
VLAN	802.1ad (DVLAN Q-inQ), 802.1Q with 802.1p priority, dynamic port VID

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PMP 450i Subscriber Module

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 (CMM5 or UGPS)
Quality of Service	Diffserve QoS

Link Budget

	3 GHz	5 GHz
Antenna Beam Width	17° azimuth for integrated antenna	10° azimuth for integrated antenna
Antenna Gain	+19 dBi dual slant integrated, or external	+23 dBi H+V integrated, or external
Maximum Transmit Power	+25 dBm (MIMO, combined H+V)	+28 dBm (MIMO, combined H+V) (may be limited by regulations)
Maximum EIRP	+43 dBm combined output (may be limited by regulations)	+50 dBm combined output (may be limited by regulations)
Power Control	ATPC (automatic transmit power control) at system level, all subscribers implement ATPC	



450i SM Connectorized



450i SM Integrated

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PMP 450i Subscriber Module

Physical

Antenna Connection	50 ohm, N-type (connectorized version only)	
Surge Suppression (LPU Fitted)	EN61000-4-5: 1.2us/50us, 500V voltage waveform Recommended external surge suppressor: Cambium model C000000L033A	
Mean Time Between Failure	>40 Years	
Dust and Water Ingress Protection Rating	IP67, IP66	
Weight	Connectorized	≈2.0 kg (4.5 lb)
	Integrated	≈2.5 kg (5.5 lb)
Wind Survival	322 km/h (200 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)	Connectorized	26.0 x 13.4 x 6.4 cm (10.2.5 x 5.25 x 3.25 in)
	Integrated	31.0 x 31.0 x 6.4 cm (12 x 12 x 2.5 in)
Power Consumption	15W typical, 18W max, using aux port PoE for another device will increase power draw	
Input Voltage	48-59V DC, 802.3at compatible	
Mounting	Wall or pole mount with Cambium model N000045L002A	

Security

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

Certifications

	3 GHz	5 GHz
ISED Canada	109W-0028	109AO-50450I
FCC ID	Z8H89FT0028	QWP-50450I
CE	EN 302 326-2 v1.2.2	EN 301 893 v2.1.1 EN 302 502 v2.1.1

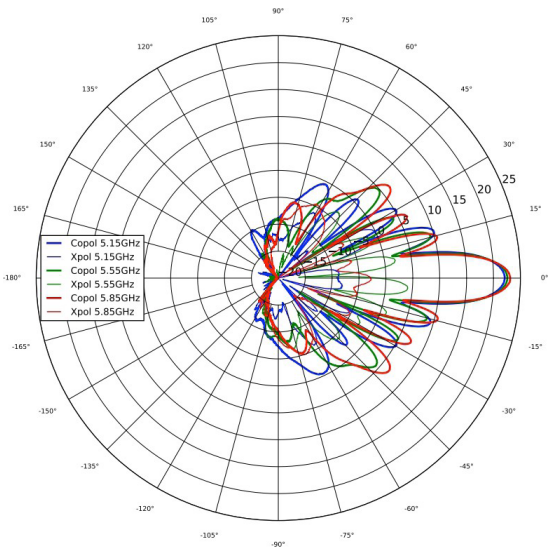
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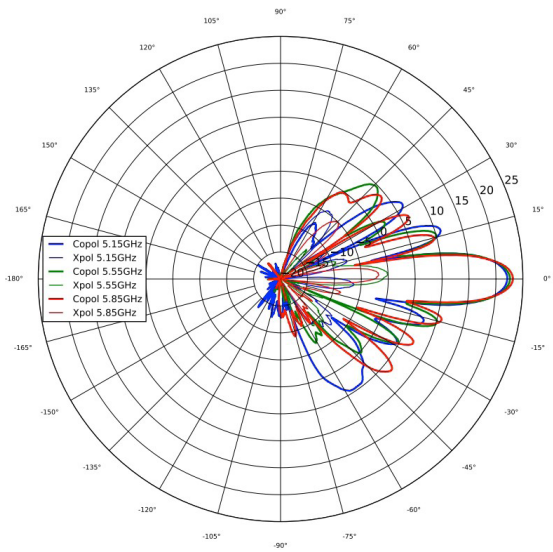
PMP 450i Subscriber Module

5 GHz Antenna Patterns for Integrated Subscriber Module

5 GHz Azimuth

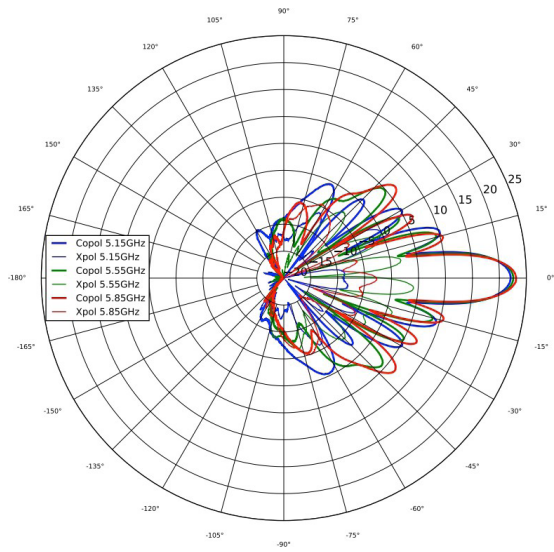


5 GHz Elevation

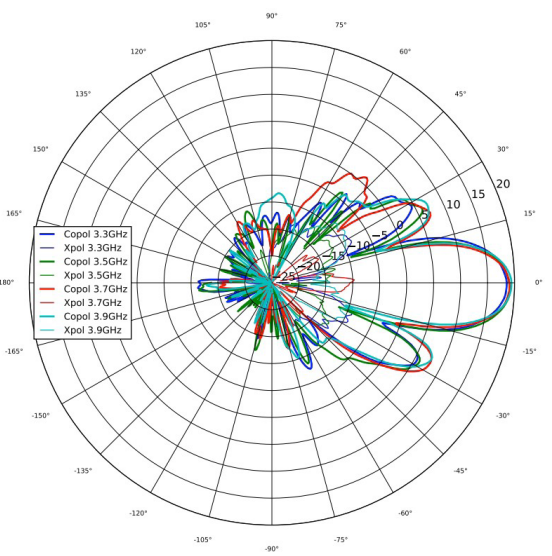


3 GHz Antenna Patterns for Integrated Subscriber Module

3 GHz Azimuth



3 GHz 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.

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