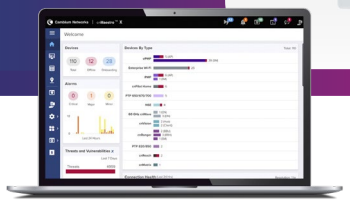
3 GHz PMP 450m Access Point

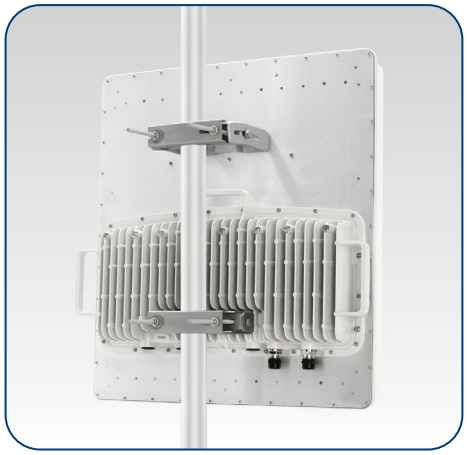
3 GHz PMP 450m AP Quick Look:

- Industry-leading 450 platform with massive multi-user MIMO capability with cnMedusa™ technology
- Throughput of over 450 Mbps in a 20 MHz channel; more than 800 Mbps in a 40 MHz channel
- MU-MIMO with spectral efficiency of more than 50 bps/Hz
- Smart beamforming to reduce interference



cnMaestro





Key Features

- **cnMedusa technology** enhances sector capacity by combining a smart beamforming antenna array with multiple RF transmit and receive chains, effectively multiplying available capacity by more than three times.
- All 450 platform subscriber modules (SM) work with the 450m and cnMedusa technology, so operator equipment investment is protected.
- SFP port allows greater deployment flexibility; AUX port allows direct connection of camera or other PoE.
- Limited Version can reduce capital investment until additional capacity is required. A 30-day trial of MU-MIMO operation is included, and a simple license key can permanently enable MU-MIMO operation, when needed.

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3 GHz PMP 450m Access Point

Model Numbers

	Global	No Encryption
Integrated 90° Sector	C030045A101C	C030045A104C
Limited Version	C030045A111C	C030045A114C

Spectrum

Channel Spacing	Customizable channel selection to 50 KHz raster
Frequency Range	3300–4200 MHz*
Channel Width	5, 10, 15, 20, 30, and 40 MHz

*If model number ends in "A", frequency supported is 3300–3900 MHz.

Specifications

MAC (Media Access Control) Layer	Cambium Networks proprietary
Physical Layer	8x8 multi-user MIMO OFDM
Ethernet Interface	100/1000BaseT, full duplex, rate auto-negotiated (802.3 compliant), SFP support for 1 Gbps optical
Protocols Used	IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP
Network Management	IPv4/IPv6 (dual stack), HTTP, HTTPS, Telnet, FTP, SNMPv2c and v3, Cambium cnMaestro™
VLAN	802.1ad (DVLAN Q-in-Q), 802.1Q with 802.1p priority, dynamic port VID

Security

Encryption	FIPS-197 128-bit AES, 256-bit AES*

*Requires optional license for attached access point

Performance

Subscribers per Sector	Up to 238
ARQ	Yes

Modulation Levels (Adaptive)	MCS	Signal to Noise Required (SNR, in dB)
2x	QPSK	10
4x	16 QAM	17
6x	64 QAM	24
8x	256 QAM	32

Ultimate Sensitivity	-94 dBM
Maximum Deployment Range	Up to 64 km (40 mi)
Latency	10 ms, typical
GPS Synchronization	Yes, via AutoSync (CMM5 or UGPS)
Quality of Service	DiffServ QoS

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3 GHz PMP 450m Access Point

Antenna	
Beamwidth – Azimuth	90° integrated sector (dual polarity, H+V, 3dB roll-off), 120° (6dB roll-off)
Beamwidth – Elevation	2° electrical downtilt, 8° elevation beamwidth and null fill down to -30°
Maximum EIRP	+52 dBm (or up to maximum allowed by regulation), achieved by combining 16 dBi antenna gain and +36 dBm max Tx power

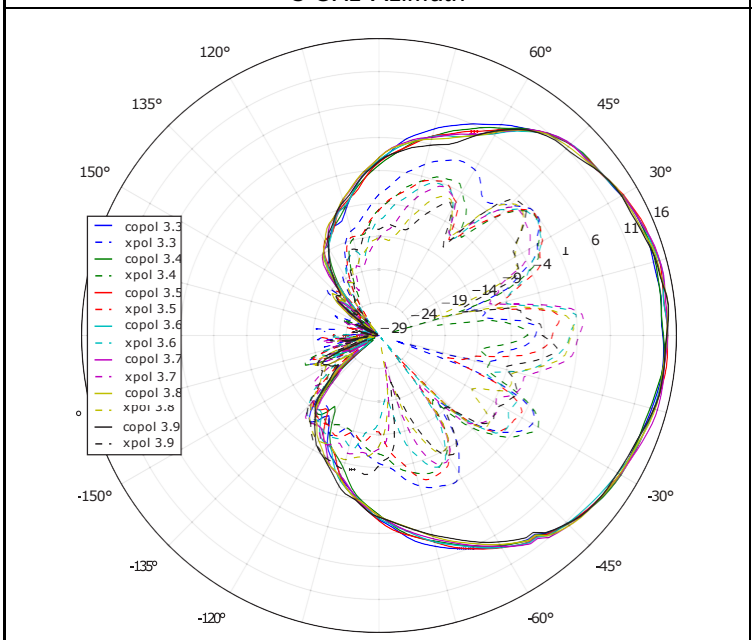
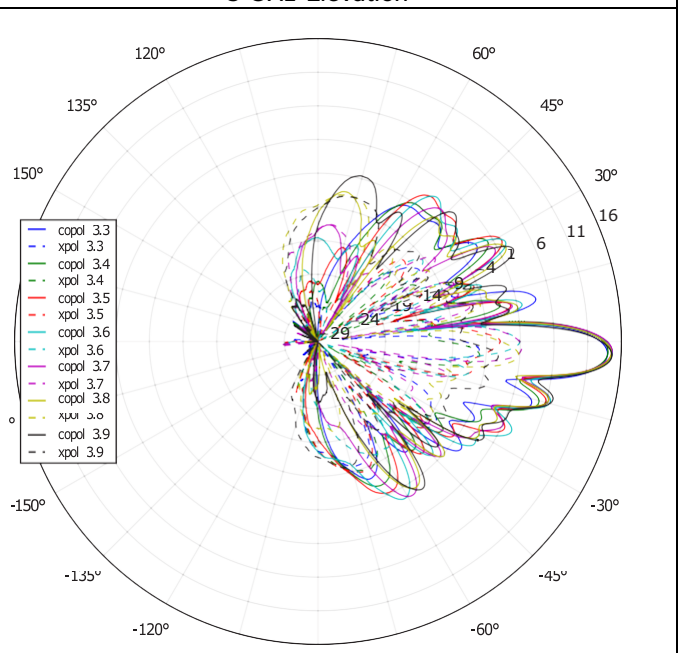
Physical	
Antenna Connection	Integrated sector array
Surge Suppression (with LPU)	**Main and AUX Ports:** EN61000-4-5: 10/700us, 4 kV voltage waveform; recommended external surge suppressor: Model C000065L007B **DC In Port:** EN61000-4-5: 10/700us, 4 kV voltage waveform; recommended external surge suppressor: Model C000000L114A
Mean Time Between Failure	>40 years
Environmental	IP67, IP66
Temperature/ Humidity	-40°C to 60°C (-40°F to 140°F), 100% non-condensing
Weight	**Without mounting brackets:** 20.4 kg (45 lb) **With mounting brackets:** 22.6 kg (49.8 lb)
Wind Survival	200 kph (124 mph)
Wind Loading (Front Facing)	**@144 kph/90 mph:** 613 N **@177 kph/110 mph:** 927 N **@200 kph/124 mph:** 1183 N
Dimensions (Diameter x Depth)	69 cm x 61 cm x 17.5 cm (27.2 in x 24 in x 7 in)
Power Consumption	140W typical, 150W peak (up to 180W max with AUX port PoE enabled)
Input Voltage	40–60V DC
Mounting	Pole mount with included brackets (3 cm–10 cm pole diameter/1.25 in–4 in pole diameter)

Certifications	
ISED Canada	109A0-30450M (3 GHz)
FCC ID	QWP-30450M (3 GHz)
CE	EN 302 326-2 v1.2.2 (3 GHz)

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3 GHz PMP 450m Access Point

Antenna Patterns (Sector Mode)

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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