

PMP 450m Access Point

Cambium Networks industry-leading 450 platform adds Massive Multi-User MIMO capability with *cn*Medusa™ technology.

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.
- Capable of throughput of over 550 Mbps in a 20 MHz channel, and more than 1.2 Gigabit per second per sector when using a 40 MHz channel.
- Multi-User MIMO more effectively uses available spectrum by simultaneous transmissions to multiple subscribers, increasing spectral efficiency to more than 60 bps/Hz.
- Protect your investment in the 450 platform equipment by continuing to utilize existing Subscriber Modules (all 450 platform subscribers work with the 450m and cnMedusa technology, including prior generation 430 modules)
- Dramatically reduce the effect of interference in both Uplink and Downlink with smart beamforming
- SFP port allows for greater deployment flexibility, and AUX port allows for connection of camera or other PoE directly.
- The Limited Version can reduce capital investment until additional capacity is actually required. A 30-day trial of MU-MIMO operation is included, and a simple license key can permanently enable MU-MIMO operation when needed.





WISPA 2017 Product of the Year

PRODUCT						
		RoW	US	EU	No Encryption	IC
Model Numbers	Integrated 90 degree sector	C050045A101A	C050045A102A	C050045A103A	C050045A104A	C050045A105A
	Limited Version	C050045A111A	C050045A112A	C050045A113A	C050045A114A	C050045A115A
SPECTRUM						
Channel Spacing	Configurable to 2.5 MHz channel	spacing				
Frequency Range	5150-5925 MHz					
Channel Width	5, 10, 15, 20, 30 and 40 MHz					

Specifications

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1001/000Base1, full duplex, rate auto negotiated (802.3 complant), SFP support up to 2.5MBase-T retrocook Used	MAC (Media Access Control) Layer	Cambium Networks proprietary				
Revocis Used	Physical Layer	14x14 Multi-User MIMO OFDM				
HTTP, HTTPS, Telnet, FTR S. MMP v3	Ethernet Interface	100/1000BaseT, full duplex, rate auto negotiated (802.3 compliant), SFP support up to 2.5NBase-T				
	Protocols Used	IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP				
Exercine Pear Sector Up to 238 ANG Yes MCS Signal to Noise Required (SNR, in dB) 2X OPSK 10 6X 160AM 17 6X 640AM 24 8X 2560AM 32 Axammo Deployment Range Up to 40 miles (64 km) 18 Synthorization Yes, via Autoryn C(MM5 or USPS) 18 Synthorization Yes, via Autoryn C(MM5 or Via Yes) 18 Synthorization Yes, via Autoryn C(MM5 or Via Yes) 18 Synthorization Yes, via Autoryn C(MM5 or Via Yes) 18 Synthorization Yes, via Autoryn C(MM5 or Via Yes) 18 Synthorizat	Network Management	HTTP, HTTPS, Telnet, FTP, SNMP v3				
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MCS	PERFORMANCE					
MCS Signal to Noise Required (SNR, in dB) 2X QPSK 10 17 18 18 19 19 19 19 19 19	Subscriber Per Sector	Up to 238				
2X	ARQ	Yes				
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FAX	2X	QPSK	10			
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Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 40 - 60 V DC		@ 110 mph / 177 kph	562 N			
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nput Voltage 40 - 60 V DC	Dimensions (HxWxD)	Integrated	52 x 65 x 11 cm (20.3" x 25.7" x 4.4")			
	Power Consumption	70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled)				
10unting Pole mount with included brackets (1.25" to 4" pole diameter)	Input Voltage	40 - 60 V DC				
3	Mounting	Pole mount with included brackets (1.25" to 4" pole diameter)				

Specifications

SECURITY		
Encryption	FIPS-197 128-bit AES, Optional 256-bit AES	
CERTIFICATIONS		
Industry Canada (ISEDC)	109A0-50450M (5.1*, 5.2, 5.4, 5.8 GHz)	
FCC ID	QWP-50450M (5.1, 5.2, 5.4, 5.8 GHz)	
CE	EN 301 893 v1.8.1 + EN 301 893 v2.1.1 Clause 4.8 (5.4GHz)	
	EN 302 502 v2.1.1 (5.8 GHz)	

^{*} License Required