



PMP 450 Access Point

The Cambium Networks Point-to-Multipoint (PMP) 450 Access Point (AP) can provide more than 90 Mbps throughput and will be interoperable with PMP 430 and PMP 100 Series Subscriber Modules (SM). Service providers with an installed base of PMP 100 subscribers can migrate to new high-throughput PMP 450 modules to enhance overall capacity, allowing more users and/or higher rate plans.

Utilizing 2x2 MIMO-OFDM technology, new deployments can take advantage of Cambium Networks proprietary feature set, while achieving data rates higher than 90 Mbps. From the available synchronization options to its diverse feature set, the PMP 450 provides flexible deployment options that make it a good fit for high capacity, high reliability networks.

Cambium Networks provides exceptional wireless broadband connectivity solutions. With more than 3 million modules deployed in thousands of networks around the world, Cambium solutions are proven to provide cost effective, reliable data, voice and video connectivity.

SPECIFICATIONS

PRODUCT	
MODEL NUMBER	C054045A001A, C054045A002A
SPECTRUM	
CHANNEL SPACING	Configurable on 5 MHz increments
FREQUENCY RANGE	5470 - 5875 MHz
CHANNEL WIDTH	10 MHz (OFDM-only mode) or 20 MHz
INTERFACE	
MAC (MEDIA ACCESS CONTROL) LAYER	Cambium Proprietary
PHYSICAL LAYER	2x2 MIMO-OFDM, FSK*
ETHERNET INTERFACE	10/100BaseT, half/full duplex, rate auto negotiated (802.3 compliant)
PROTOCOLS USED	IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP
NETWORK MANAGEMENT	HTTP, Telnet, FTP, SNMPv2c
VLAN	802.1ad (DMLAN QinQ), 802.1Q with 802.1p priority, dynamic port VID
PERFORMANCE	
SUBSCRIBERS PER SECTOR	Up to 200
ARQ	Yes
NOMINAL RECEIVE SENSITIVITY (W/ FEC) @ 10MHZ CHANNEL	OFDM: 2X=-86, 4X=-79, 6X=-72
NOMINAL RECEIVE SENSITIVITY (W/ FEC) @ 20MHZ CHANNEL	OFDM: 2X=-83, 4X=-76, 6X=-69 FSK*: 1X=-85, 2X=-80
MAXIMUM DEPLOYMENT RANGE	Up to 25 miles
MODULATION LEVELS (ADAPTIVE)	OFDM: QPSK, 16-QAM, 64-QAM (MIMO-B) FSK*: 1X=2-Level FSK, 2X=4-Level FSK
LATENCY	3 - 5 ms
GPS SYNCHRONIZATION	Yes, via CMM3, CMM4 or UGPS
QUALITY OF SERVICE	Diffserve QoS

SPECIFICATIONS

LINK BUDGET

ANTENNA BEAM WIDTH	60° (H+V+FSK patch) or 90° sectors are available
TRANSMIT POWER	CFDM: -30 to +22 dBm (combined, to EIRP limit by region) (1 dB interval) FSK: -30 to +23 dBm (1 dB interval)
ANTENNA GAIN	17 dBi H+V, 9 dBi FSK patch (with 60° sector antenna) 17 dBi H+V (with 90° sector antenna)
MAXIMUM TRANSMIT POWER	22 dBm combined CFDM, 23 dBm FSK*

PHYSICAL

ANTENNA CONNECTION	50 ohm, N-type (Dual Polarization CFDM), FSK V-Pol
SURGE SUPPRESSION	1 Joule Integrated
MEAN TIME BETWEEN FAILURE	>40 Years
ENVIRONMENTAL	IP67, IP66
TEMPERATURE	-40°C to +55°C (-40°F to +131°F)
WEIGHT	5.9 kg (13 lbs) with antenna 2.5 kg (5.5 lbs) without antenna
WIND SURVIVAL	190 km/hour (118 mi/hour)
DIMENSIONS (HxWxD)	Radio: 27x21x7 cm (10.6"x8.3"x2.8") Antenna: 51x13x7.3 cm (20.2"x5.1"x2.9")
MAXIMUM POWER CONSUMPTION	18 W
INPUT VOLTAGE	24 to 30 V

SECURITY

ENCRYPTION	56-bit DES, FIPS-197 128-bit AES
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CERTIFICATIONS

FCC ID	Z8H89FT0002
INDUSTRY CANADA CERT	109W-0002
CE	EN 302 502 v1.2.1 EN 301 893 v1.6.1

* Planned Future Release