



PMP 430 Access Point (5.8GHz)

The Cambium Point-to-Multipoint (PMP) 430 Access Point and Subscriber Module is the ideal solution for developing, enhancing and extending advanced broadband networks with more than 50 Mbps of total aggregate throughput for data transfer, voice and video applications. Based on OFDM technology, the PMP 430 offers robust performance, even in near or non line-of-sight (nLOS or NLOS) conditions. Cambium Networks products combine field-proven toughness with exceptional performance, security, ease-of-use and cost effectiveness.

Because of GPS Synchronization, Access Points can be co-located on the same tower location with other Cambium PMP. Subscriber Modules can be purchased with throughputs of 4, 10, 20 or Uncapped Mbps and throughput can be enhanced to existing modules via a fixed software license.

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	5780AP, 5780APC, 5780APUS
SPECTRUM	
CHANNEL SPACING	Configurable on 2.5 MHz increments for 5 MHz Channel Configurable on 5 MHz increments for 10 and 20 MHz Channels
FREQUENCY RANGE	5725-5875 MHz
CHANNEL WIDTH	5 MHz, 10 MHz or 20 MHz
INTERFACE	
PHYSICAL LAYER	OFDM 256FFT
MAC (MEDIA ACCESS CONTROL) LAYER	Cambium Proprietary
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 Prizm 3.3 and One Point Wireless Manager 2.2
VLAN	802.1ad (DVLAN Q-in-Q), 802.1Q with 802.1p priority, dynamic port VID
PERFORMANCE	
CYCLIC PREFIX	1/4, 1/8 or 1/16 fixed
SUBSCRIBERS PER SECTOR	Up to 200
ARQ	Yes
COLLOCATION WITH PMP 58100	Yes, 10MHz guard band required or 5MHz with 3 ft vertical required; synchronization required
COLLOCATION WITH PMP 54100	Yes, 10MHz guard band separation or 5MHz with 3 ft vertical required; synchronization required
COLLOCATION WITH PMP 52100	YES
MODULATION LEVELS (ADAPTIVE)	1X=QPSK, 2X=16QAM, 3X=64QAM

SPECIFICATIONS

LATENCY	5-7 ms
FORWARD ERROR CORRECTION	3/4 Reed-Solomon block coding
PACKETS PER SECOND	15,000
GPS SYNCHRONIZATION	Yes
QUALITY OF SERVICE	DiffServ QoS
MAX. AGGREGATE THROUGHPUT PER SECTOR (@20MHZ CHANNEL)	1X: 16.5 Mbps, 2X: 32 Mbps, 3X: 50 Mbps
MAX. AGGREGATE THROUGHPUT PER SECTOR (@10MHZ CHANNEL)	1X: 8 Mbps, 2X: 16.5Mbps, 3X: 24.5Mbps
MAX. AGGREGATE THROUGHPUT PER SECTOR (@5 MHZ CHANNEL)	1X: 3.5 Mbps, 2X: 7 Mbps, 3X: 10.5 Mbps
LINK BUDGET	
ANTENNA BEAM WIDTH	4 sector application (actual 3 dB antenna pattern: 65° azimuth 7° elevation; Triple null fill)
TRANSMIT POWER	-30 to +21 dBm (to EIRP limit by region) (1dBm interval)
ANTENNA GAIN	17 dBi (w/ included sector antenna)
MAXIMUM TRANSMIT POWER	21 dBm
EIRP	36 dBm FCC 36 dBm ETSI (20 MHz) 33 dBm ETSI (10 MHz) 30 dBm ETSI (5MHz)
TYPICAL LOS RANGE	1X: 11 mi. (18 km), 2X: 5 mi. (8 km), 3X: 2.25 mi. (3.6 km)
PHYSICAL	
WIND LOADING	90 lbs.
ANTENNA CONNECTION	50 ohm N-type
MEAN TIME BETWEEN FAILURE	> 60 Years
ENVIRONMENTAL	IP55
TEMPERATURE	-40°C to +55°C (-40°F to +131°F)
WEIGHT	Radio: 2.8 kg (6.1 lbs.) W/Antenna: 6.1 kg (13.5 lbs.)
WIND SURVIVAL	190 km/hour (118 mi/hour)
DIMENSIONS (HxWxD)	Radio: 35 x 21 x 11 cm (13.75" x 8.25" x 4.2") W/Antenna: 51 x 21 x 28 cm (20.2" x 8.25" x 11")
MAXIMUM POWER CONSUMPTION	19W
INPUT VOLTAGE	24 to 59V
SECURITY	
ENCRYPTION	56-bit DES, 128-bit AES Optional
CERTIFICATIONS	
CE	EN302 502 v1.2.1
FCC ID	Z8H89FT7634
INDUSTRY CANADA CERT	109W-5780