



## PMP 430 Subscriber Module (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	
<b>MODEL NUMBER</b>	5790SM4, 5790SM10, 5790SM20, 5790SM40
SPECTRUM	
<b>CHANNEL SPACING</b>	Configurable on 2.5 MHz increments for 5 MHz Channel Configurable on 5 MHz increments for 10 and 20 MHz Channels
<b>FREQUENCY RANGE</b>	5725-5875 MHz
<b>CHANNEL WIDTH</b>	5 MHz, 10 MHz or 20 MHz
INTERFACE	
<b>PHYSICAL LAYER</b>	OFDM 256FFT
<b>MAC (MEDIA ACCESS CONTROL) LAYER</b>	Cambium Proprietary
<b>ETHERNET INTERFACE</b>	10/100BaseT, half/full duplex, rate auto negotiated (802.3 compliant)
<b>PROTOCOLS USED</b>	IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP
<b>NETWORK MANAGEMENT</b>	HTTP, Telnet, FTP, SNMPv2c Prizm 3.3 and One Point Wireless Manager 2.2
<b>VLAN</b>	802.1ad (DVLAN Q-in-Q), 802.1Q with 802.1p priority, dynamic port VID
PERFORMANCE	
<b>CYCLIC PREFIX</b>	1/4, 1/8 or 1/16 fixed
<b>ARQ</b>	Yes
<b>COLLOCATION WITH PMP 58100</b>	Yes, 10MHz guard band required or 5MHz with 3 ft vertical required; synchronization required
<b>COLLOCATION WITH PMP 54100</b>	Yes, 10MHz guard band separation or 5MHz with 3 ft vertical required; synchronization required
<b>COLLOCATION WITH PMP 52100</b>	YES
<b>MODULATION LEVELS (ADAPTIVE)</b>	1X=QPSK, 2X=16QAM, 3X=64QAM
<b>LATENCY</b>	5 - 7 ms

## SPECIFICATIONS

<b>FORWARD ERROR CORRECTION</b>	3/4 Reed-Solomon block coding
<b>PACKETS PER SECOND</b>	4,800
<b>GPS SYNCHRONIZATION</b>	Yes
<b>QUALITY OF SERVICE</b>	DiffServ QoS
<b>MAX. AGGREGATE THROUGHPUT PER SECTOR (@20MHZ CHANNEL)</b>	1X: 16.5 Mbps, 2X: 32 Mbps, 3X: >50 Mbps
<b>MAX. AGGREGATE THROUGHPUT PER SECTOR (@10MHZ CHANNEL)</b>	1X: 8 Mbps, 2X: 16.5Mbps, 3X: 24.5Mbps
<b>MAX. AGGREGATE THROUGHPUT PER SECTOR (@5 MHZ CHANNEL)</b>	1X: 3.5 Mbps, 2X: 7 Mbps, 3X: 10.5 Mbps
<b>LINK BUDGET</b>	
<b>ANTENNA BEAM WIDTH</b>	55° azimuth, 55° elevation (3 dB antenna pattern)
<b>TRANSMIT POWER</b>	-30 to +19 dBm (to EIRP limit by region) (1dBm interval)
<b>ANTENNA GAIN</b>	10 dBi
<b>MAXIMUM TRANSMIT POWER</b>	19 dBm
<b>EIRP</b>	Unregulated by FCC 36 dBm ETSI (20 MHz) 33 dBm ETSI (10 MHz) 30 dBm ETSI (5MHz)
<b>TYPICAL LOS RANGE</b>	1X: 11 mi. (18 km), 2X: 5 mi. (8 km), 3X: 2.25 mi. (3.6 km)
<b>REFLECTOR GAIN</b>	+ 15 dBi
<b>LENS GAIN</b>	+ 6 dBi
<b>PHYSICAL</b>	
<b>WIND LOADING</b>	90 lbs.
<b>ANTENNA CONNECTION</b>	N/A - Integrated Antenna
<b>MEAN TIME BETWEEN FAILURE</b>	> 90 Years
<b>ENVIRONMENTAL</b>	IP55
<b>TEMPERATURE</b>	-40°C to +55°C (-40°F to +131°F) 0% - 95% relative humidity, non-condensing
<b>WEIGHT</b>	0.45kg (1 lb.)
<b>WIND SURVIVAL</b>	190 km/hour (118 mi/hour)
<b>DIMENSIONS (HxWxD)</b>	30 x 9 x 9 cm (11.75" x 3.4" x 3.4")
<b>MAXIMUM POWER CONSUMPTION</b>	10W
<b>INPUT VOLTAGE</b>	24 to 30V
<b>SECURITY</b>	
<b>ENCRYPTION</b>	56-bit DES, 128-bit AES Optional
<b>CERTIFICATIONS</b>	
<b>CE</b>	EN302 502 v1.2.1
<b>FCC ID</b>	Z8H89FT7635
<b>INDUSTRY CANADA CERT</b>	109W-5790