Cambium Networks

PMP 100 Subscriber Module

The Cambium Networks Point-to-Multipoint (PMP) 100 Series product is the ideal solution for developing, enhancing and extending advanced broadband networks and services – and for making delivery of high-demand applications like Internet access, voice over IP, video services, and security surveillance much quicker and much less expensive.

Cambium Networks products combine field-proven toughness with exceptional performance, security, ease-of-use and cost effectiveness. Available in frequencies from 2.4 GHz to 5 GHz with total throughputs up to 14 Mbps, and an array of options and accessories, PMP 100 is the right choice for government, business and residential applications.

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	2.4 GHz - 2400SMDD, 2450SMDD, 2460SMDE 5.1 GHz - 5202SMG, 5252SMG 5.2 GHz - 5200SMG, 5250SMG, 5260SMG 5.4 GHz - 5400SMG, 5450SMG, 5460SMG 5.8 GHz - 5700SMG, 5750SMG, 5760SMG 5.9 GHz - 5900SMBB, 5950SMBB
SPECTRUM	
CHANNEL SPACING	2.4 GHz - Configurable on 2.5 MHz increments 5 GHz - Configurable on 5 MHz increments
FREQUENCY RANGE	2.4 GHz - 2415 - 2457.5 MHz 5.1 GHz - 5150 - 5350 MHz 5.2 GHz - 5250 - 5350 MHz 5.4 GHz - 5470 - 5725 MHz 5.8 GHz - 5725 - 5850 MHz 5.9 GHz - 5850 - 6050 MHz
CHANNEL WIDTH	20 MHz
INTERFACE	
ETHERNET INTERFACE	10/100 Base T, half/full duplex. Rate auto negotiated (802.3 compliant)
PROTOCOLS USED	IPV4, UDP, TCP, ICMP, Telnet, HTTP, FTP, SNMP, PPPoE
NETWORK MANAGEMENT	HTTP, TELNET, FTP, SNMPv2c
PERFORMANCE	
MAXIMUM AGGREGATE THROUGHPUT	CSM110 - 2 Mbps CSM120 - 7 Mbps CSM130 - 14 Mbps
LATENCY	5 - 7 msec
VLAN	802.1Q with 802.1p Priority
MODULATION TYPE	2-level Frequency Shift Keying (FSK), 4-level FSK
CARRIER TO INTERFERENCE RATIO (C/I)	~3dB @ 2 level FSK, ~10dB @ 4 Level FSK

SPECIFICATIONS

ACCESS METHOD	Time Division Duplexing/Time Division Multiple Access (TDD/TDMA)
LINK BUDGET	
ANTENNA BEAM WIDTH	3 dB antenna beam width 60 degrees, Azimuth and Elevation
ANTENNA GAIN	2.4 GHz - 8 dBi 5 GHz - 7 dBi
EIRP	2.4 GHz - Up to 33 dBm 5 GHz - Up to 30 dBm
SENSITIVITY (dBm typical)	-86 dBm @ 2 Level FSK, -79 dBm @ 4 Level FSK
PHYSICAL	
HORIZONTAL POLARIZED OPTION	5.2, 5.4 and 5.8 GHz
CONNECTORIZED ANTENNA OPTION	5.4 GHz, 5.7 GHz
MEAN TIME BETWEEN FAILURE	> 40 years
TEMPERATURE	-40° F to +131° F (-40° C to +55° C)
WEIGHT	1 lb (.45 kg)
WIND SURVIVAL	118 miles/hr (190 km/hr)
DIMENSIONS (HxWxD)	30 x 9 x 9 cm (11.75" x 3" x 3")
MAXIMUM POWER CONSUMPTION	8 W
INPUT VOLTAGE	24 - 30 VDC
SECURITY	
ENCRYPTION	DES, AES Optional FIPS 197 Certified – 5.1 and 5.9 GHz are DES only
CERTIFICATIONS	
FCC ID	2.4 GHz - ABZ89FC5808 5.2 GHz - ABZ89FC3789 5.4 GHz - ABZ89FT7623 5.8 GHz - ABZ89FT7630
INDUSTRY CANADA CERT	2.4 GHz - 109W-2400 5.2 GHz - 109W-5200 5.4 GHz - 109W-5400 5.8 GHz - 109W-5700G
CE	2.4 GHz - EN 300 328 5.4 GHz - EN 301 893 5.8 GHz - EN 302 502

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