Cambium Networks

PMP 36320 SUBSCRIBER MODULE

Service providers need to deliver reliable, high-quality broadband service at a low investment to succeed in today's competitive marketplace.

The CSM 36320 is an 802.16e standards-based fixed, outdoor solution that provides reliable, cost-effective fixed connectivity in the 3.6 to 3.8 GHz licensed band including the 3.65 to 3.70 GHz band in the United States.

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.

FEATURE	SPECIFICATION
MODEL NUMBER	3630SM (integrated)
	3630SMC (connectorized)
FREQUENCY RANGE	3.6GHz to 3.8GHz
CHANNEL WIDTH	3.5 MHz, 5 MHz, 7MHz, or 10 MHz
STANDARD PROTOCOL	WiMAX 802.16e-2009
MIMO	MIMO Matrix A and Matrix B – 2 receivers / 1 transmitter
ANTENNA GAIN	Integrated 14.5dBi antenna
TRANSMIT POWER	Up to 27dBm
EIRP	Up to 41.5dBm (FCC limits apply)
ANTENNA BEAM WIDTH	30 degree beamwidth x 30 degree elevation
MODULATION LEVELS (ADAPTIVE)	QPSK (1/2), QPSK(3/4), 16QAM(1/2), 16QAM(3/4), 64QAM(1/2), 64QAM(2/3), 64QAM(3/4), 64QAM(5/6)
ERROR CORRECTION	HARQ and Cyclic Turbo Coding
QUALITY OF SERVICE	Supports all 5 WiMAX QoS profiles (Best Effort, rtPS, nrtPS, ertPS, UGS)
MAXIMUM DEPLOYMENT RANGE	Up to 25 miles (40km) dependent on link budget and
MAXIMUM THROUGHPUT (75/25 DL/UL Ratio)	Aggregate: up to 14 Mbps
	Downlink: up to 14Mbps
	Uplink: up to 5Mbps
LATENCY	40 to 60 ms roundtrip
ENCRYPTION	128-bit AES
SECURITY	EAP-TTLS/PKMv2 authentication over RADIUS

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NOMINAL RECEIVE SENSITIVITY **(10MHz Channel)**	CTC-QPSK(1/2): - 93 dBm CTC-QPSK (3/4): - 86 dBm CTC-16QAM(1/2): - 83 dBm CTC-16QAM (3/4): - 80 dBm CTC-64QAM(1/2): - 79 dBm CTC-64QAM (2/3): - 75 dBm CTC-64QAM(3/4): - 74 dBm CTC-64QAM (5/6): - 71 dBm MIMO Matrix B: - 69 dBm
ETHERNET INTERFACE	10/100BaseT, half/full duplex, rate auto negotiated (802.3 compliant)
NETWORK CONVERGENCE	Layer 2 Bridge or NAT Mode
PROTOCOLS USED	IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP
NETWORK MANAGEMENT	Web-based interface, SNMP, or Wireless Manager
VLAN	802.1Q with 802.1p priority, dynamic port VID
TEMPERATURE	-40° C to +55°C (-40° F to +131° F) 0% - 95% humidity, non-condensing
WEIGHT	3.1 lbs. (1.4 kg)
WIND SURVIVAL	118 mi/hour (190 km/hour)
WIND LOADING	26 lbs. (11.9 kg) at 118 miles / hr (190 km/hr)
DIMENSIONS (HxWxD)	7.9 x 7.9 x 3.2 inches (~200 x 200 x 80 mm)
MAXIMUM POWER CONSUMPTION	< 13 Watts
INPUT VOLTAGE	Power over Ethernet
CE	"CE" marked & compliant to EN300 328
INDUSTRY CANADA CERTIFICATE	109W-3630SM
ENVIRONMENTAL	ROHS/WEEE compliant
FCC ID	ABZ89FT7633 (integrated)
	ABZ89FT7636 (connectorized)