Cambium Networks

SPEC SHEET

PTP 100

The Cambium Networks PTP 100 Series of Point-to-Point wireless Ethernet bridges provide a low-cost-of-entry solution for deployment, expansion and extension of broadband communications networks. The PTP 100 Series also offers the scalability of simple, affordable software key- based license upgrades for additional performance and capacity as networks grow.

An organization can begin with a system that delivers 2 Mbps of aggregate throughput at one of the lowest initial costs in the industry. When upgrades are needed, the user simply purchases software license keys that allow incremental over-the-air upgrades to 4 Mbps and to 7 Mbps aggregate data rates. Licenses that deliver up to 14 Mbps are also available.

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 - 2400BHDD, 2400BH20DD 5.1 GHz - 5202BHG, 5202BH20G 5.2 GHz - 5200BHG, 5200BH20G 5.4 GHz - 5400BH02G, 5400BHG, 5400BH20G 5.8 GHz - 5700BH02G, 5700BHG, 5700BH20G
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
VLAN	802.1Q with 802.1p Priority
PERFORMANCE	
MAXIMUM DEPLOYMENT RANGE	Base Unit: 3.2 km (2 mi.) with LENS: 32 km (20 mi.) with Reflector Dish: 56 km (35 mi.)
MAXIMUM AGGREGATE THROUGHPUT	PTP110 - 2 Mbps PTP120 - 7 Mbps PTP130 - 14 Mbps
LATENCY	5 - 7 msec
MODULATION TYPE	2-level and 4-level Frequency Shift Keying (FSK)

SPECIFICATIONS

CARRIER TO INTERFERENCE RATIO (C/I)	~3dB @ 2 level FSK, ~10dB @ 4 Level FSK
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
REFLECTOR GAIN	+ 13 dBi for 2.4 GHz radio + 19 dBi for 5 GHz radio
LENS GAIN	+ 10 dBi for 5 GHz radio
PHYSICAL	
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	
CE	2.4 GHz - EN 300 328 5.4 GHz - EN 301 893 5.8 GHz - EN 302 502
INDUSTRY CANADA CERT	2.4 GHz - 109W-2400 5.2 GHz - 109W-5200 5.4 GHz - 109W-5400 5.8 GHz - 109W-5700G
FCC ID	2.4 GHz - ABZ89FC5808 5.2 GHz - ABZ89FC3789 5.4 GHz - ABZ89FT7623 5.8 GHz - ABZ89FT7630