Cambium Networks

SPEC SHEET

PTP 230

Our Point-to-Point (PTP) 200 Series Wireless Ethernet Solutions are designed to give you high-throughput, reliable broadband communications on a tight budget. With a PTP 200 Series solution, enterprises, government organizations and service providers with limited resources can establish and extend backhaul communications affordably.

Available in both 5.4 GHz or 5.8 GHz, the PTP 230 systems can synchronize communications using a GPS timing device, allowing you to collocate multiple radios with virtually no self-interference. Based on OFDM technology, the PTP 230 offers robust performance, even in near or non line-of-sight (nLOS or NLOS) conditions. Upgrade your PTP 100 link today by simply replacing your radios, and tripling your throughput.

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	5.4 GHz: 5480BH10, 5480BH20, 5480BH50 5.8 GHz: 5780BH10, 5780BH20, 5780BH50
SPECTRUM	
CHANNEL SPACING	Configurable on 5 MHz increments
FREQUENCY RANGE	5.4 GHz: 5.470 GHz – 5.725 GHz 5.8 GHz: 5.725 GHz – 5.875 GHz
CHANNEL WIDTH	Configurable to 10 or 20 MHz
INTERFACE	
PHYSICAL LAYER	OFDM 256FFT
MAC (MEDIA ACCESS CONTROL) LAYER	Cambium Proprietary
ETHERNET INTERFACE	10/100 Base T (RJ-45)
PROTOCOLS USED	Proprietary OFDM
NETWORK MANAGEMENT	HTTP, Telnet, FTP, SNMPv2c; Wireless Manager, version 3.0 or higher
VLAN	802.1ad (DVLAN Q-in-Q), 802.1Q with 802.1p priority, dynamic port VID
PERFORMANCE	
ARQ	Yes
CYCLIC PREFIX	1/4, 1/8, or 1/16 fixed
MAXIMUM DEPLOYMENT RANGE	Base unit: 5 km (3.1 mi.) with LENS: 19 km (12 mi.) with Reflector dish: 50 km (31 mi.)
MAXIMUM AGGREGATE THROUGHPUT	50 Mbps
MODULATION LEVELS (ADAPTIVE)	1X=QPSK, 2X=16-QAM, 3X=64-QAM
LATENCY	5 to 7 ms round trip
FORWARD ERROR CORRECTION	3/4 Reed-Solomon block coding

SPECIFICATIONS

GPS SYNCHRONIZATION	Yes, via CMM3, CMM4 or UGPS (The PTP230 can also provide the UGPS with power)
QUALITY OF SERVICE	DiffServ QoS
ACCESS METHOD	Time Division Duplexing(TDD)
LINK BUDGET	
ANTENNA BEAM WIDTH	55° azimuth, and 55° elevation (can be narrowed using lens or reflector dish)
TRANSMIT POWER	-30 to +19 dBm to EIRP limit by region (1 dBm interval)
ANTENNA GAIN	Integrated - 10 dBi
MAXIMUM TRANSMIT POWER	19 dBm
EIRP	Up to 44 dBm (with reflector dishes), subject to regulatory limits
SENSITIVITY (dBm typical)	Up to -86 dBm (with FEC)
REFLECTOR GAIN	+15 dBi
LENS GAIN	+6 dBi
PHYSICAL	
WIND LOADING	90 lbs.
MEAN TIME BETWEEN FAILURE	>90 Years
ENVIRONMENTAL	IP55
TEMPERATURE	-40° to +131° F (-40° to +55° C)
WEIGHT	0.45 kg (1 lb.)
WIND SURVIVAL	118 mph (190 kph)
DIMENSIONS (HxWxD)	30 x 9 x 9 cm (11.75" x 3.4" x 3.4")
MAXIMUM POWER CONSUMPTION	10W
INPUT VOLTAGE	24 to 30V
SECURITY	
ENCRYPTION	56-bit DES, 128-bit AES Optional
CERTIFICATIONS	
INDUSTRY CANADA CERT	5.4 GHz: 109W-5490G 5.8 GHz: 109W-5790
FCC ID	5.4 GHz: Z8H89FT7638 5.8 GHz: Z8H89FT7634
CE	5.4 GHz: EN301 893 v1.6.1 5.8 GHz: EN302 502 v1.2.1

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