PTP 800 SPLIT-MOUNT SOLUTION

LICENSED ETHERNET MICROWAVE FOR MULTI-SERVICE NETWORKS

Cambium Point-to-Point (PTP) 800 Licensed Ethernet Microwave Solutions can efficiently and affordably transport the data, voice and video that your bandwidth-intensive applications require without having to contend with other communicators in your radio-frequency (RF) band.

SPLIT-MOUNT ARCHITECTURE

Within our PTP 800 family of products, we offer two architectures, a split-mount architecture and an all-indoor architecture. In this Specification Sheet, we detail the specifics of our Split-Mount systems. Information on our PTP 800i All-Indoor system is available at PTP 800.

Our PTP 800 Split-Mount systems operate in the 6 to 38 GHz licensed bands, at up to 368 Mbps throughput[1] (full duplex), and with user-configured channel bandwidths from 7 to 56 MHz. When deployed, the outdoor radio unit (ODU) and antenna are mounted on a tower or rooftop and connected via cable to the Compact Modem Unit (CMU) located inside your building or equipment housing unit.

Within the split-mount platform, you can choose between our Standard ODU-A or our High Performance ODU-B. ODU-A is available in 6 to 38 GHz frequencies, while the High Performance ODU-B is available in the 11, 18 and 23 GHz bands. The ODU-B offers higher transmit power, lower power consumption, and lighter weight when compared with the ODU-A. In addition, our NTIA-compliant 7 and 8 GHz models support DoD and non-DoD applications within the U.S. Federal Government.

COST-EFFICIENT SCALABILITY

With upgradeable capacity from 10 Mbps to full capacity via software key, PTP 800 systems offer exceptional cost efficiency and scalability, allowing you to purchase only the capacity you need today and add capacity as your needs grow. Whether your organization is a carrier, service provider, utility company, municipality, public safety organization, government agency or corporate enterprise, PTP 800 radios will provide you with high-performance, ultra-reliable connectivity and backhaul.

RADIO TECHNOLOGY

ODU-A RF bands[2]	L6 GHz Band: 5.925 – 6.425 GHz U6 GHz Band: 6.425 – 7.100 GHz 7 GHz Band: 7.125 – 7.9 GHz 8 GHz Band: 7.725 – 8.5 GHz 11 GHz Band: 10.7 – 11.7 GHz 13 GHz Band: 12.75 – 13.25 GHz 15 GHz Band: 14.4 – 15.35 GHz 18 GHz Band: 17.7 – 19.7 GHz 23 GHz Band: 21.2 – 23.6 GHz 26 GHz Band: 24.25 – 26.5 GHz 28 GHz Band: 27.5 – 29.5 GHz 32 GHz Band: 31.8 – 33.4 GHz 38 GHz Band: 37.0 – 40.0 GHz
ODU-B RF bands[2]	11 GHz Band: 10.7 – 11.7 GHz 18 GHz Band: 17.7 – 19.7 GHz 23 GHz Band: 21.2 – 23.6 GHz
Channel size	Configurable from 7 to 56 MHz
Maximum Tx power[3]	30 dBm
Best Rx sensitivity[4]	-90.9 dBm
Modulation	QPSK to 256 QAM Fixed mode or Adaptive Coding and Modulation (ACM)
Error correction	Low Density Parity Check (LDPC) code
Duplex scheme	FDD
Security and encryption	Proprietary air interface Optional FIPS-197 compliant 128/256-Bit AES Encryption Optional FIPS 140-2[5] Authenticated SNTP

ETHERNET BRIDGING

Protocol	IEEE 802.3 802.1p/1Q (served by 8 queues) 802.1ad (Q-in-Q)
Frame size	Up to 9600 bytes
User data throughput[6]	10 to 368 Mbps at the Ethernet (full duplex); use our Cambium PTP LINKPlanner to determine actual throughput for the deployment
QoS	8 Queues by VLAN tag, Layer 3 DSCP and TC
Latency	To < 115 µs @ full capacity with 64 bytes
User traffic interface	100 / 1000 Base T (RJ-45) – auto MDI/MDIX, 1000 Base SX and LX options

MANAGEMENT & INSTALLATION

Network management	Inband and out-of-band
Protocol	SNMP v1, v2c, v3
EMS	Web access via browser using HTTP or HTTPS/TLS[7] Cambium Wireless Manager, release 3.0 or higher Your existing network management system Motorola ASTRO® Unified Event Manager (UEM) Remote authentication using RADIUS
Out-of-band interface	10 / 100 Base T (RJ-45)
Installation	ODU – RSSI output assistance for link alignment
Connection	IF cable between outdoor unit (ODU) and compact modem unit (CMU); distance up to 1000 ft. (300 meters) using the LMR600 cable; 630 ft. (190 meters) is achievable with the CNT400 IF cable

PHYSICAL

Physical configuration	Split mount – Compact Modem Unit (CMU) and Outdoor Unit (ODU)	
Dimensions	ODU: Diameter 10.5" (26.7 cm), Depth 3.5" (8.9 cm) CMU: Width 7.1" (18.0 cm), Height 1.4" (3.5 cm), Depth 8.7" (22.0 cm)	
Weight	ODU-A: 10.1 lbs (4.6 kg) ODU-B: 8.6 lbs (3.9 kg CMU: 2.4 lbs (1.1 kg)	
Wind speed survival	ODU: 150 mph (242 kph)	
Power source	-48V DC (-40.5V DC to -60V DC)	
Power consumption	ODU-A – 1+0 Configuration (per end) 6 ~ 11 GHz: 71 Watts maximum 13 ~ 38 GHz: 62 Watts maximum	ODU-B – 1+0 Configuration (per end) 11 GHz: 58 Watts maximum 18, 23 GHz: 56 Watts maximum
	ODU-A – 1+1 Configuration (2 ODUs + 2 CMUs per end) 6 ~ 11 GHz: 122 Watts maximum 13 ~ 38 GHz 114 Watts maximum	ODU-B – 1+1 Configuration (2-ODUs + 2-CMUs per end) 11 GHz: 98 Watts maximum 18, 23 GHz: 98 Watts maximum

ENVIRONMENTAL & REGULATORY

Operating temperature	Outdoor Unit: -27° to +131° F (-33° to +55° C) – EN 300 019-1-4 Compact Modem Unit: -27° to +131° F (-33° to +55° C) – EN 300 019-1-3
Humidity	Outdoor Unit: Up to 100% Compact Modem Unit: Up to 95%, non-condensing
Safety	UL 60950; IEC 60950; EN 60950; CSA 22.2 No. 60950
EMC	USA: FCC Part 15, Class B Europe: EN 301 489-1 and EN 301 489-4
Radio standard	ETSI Harmonized Standard EN 302 217-2-2 FCC Regulation Title 47, Part 101 Industry Canada Specification RSS-GEN and relevant SRSP Specifications

[1] 368 Mbps maximum throughput requires a 56 MHz channel and 256 QAM which may not be available in certain regions due to regulatory restrictions.

[2] Regulatory conditions for RF bands may vary by geographic location and should be confirmed prior to system purchase.

[3] Transmit power depends on frequency, modulation and regulations (ETSI/FCC).

[4] Receive sensitivity depends on frequency, channel bandwidth and modulation (-90.9 dBm is based on an 11 GHz model with 7 MHz channel bandwidth and the QPSK mode).

[5] FIPS 140-2 certification status may be confirmed at: http://csrc.nist.gov/groups/STM/cmvp/inprocess.html

[6] User throughput depends on the configuration of channel bandwidth, modulation and capacity license key. Radios ship with factory-set 10 Mbps throughput capacity cap; additional capacity may be purchased at time of order or anytime after deployment. Full capacity is not available for all combinations of bands and regulations.

[7] Web access via HTTPS/TLS is available on AES-enabled radios.

Radio Configuration

Frequency (GHz)		L6	U6	7	8	11	13	15	18	23	26	28	32	38
Standard		ETSI / FCC	ETSI / FCC	ETSI / NTIA	ETSI / NTIA	ETSI / FCC	ETSI	ETSI	ETSI / FCC	ETSI / FCC	ETSI / FCC	ETSI	ETSI	ETSI / FCC
Frequency Range (GHz)		5.925 ~ 6.425	6.425 ~ 7.100	7.125 ~ 7.9	7.725 ~ 8.50	10.7 ~ 11.7	12.75 ~ 13.25	14.4 ~ 15.35	17.7 ~ 19.7	21.2 ~ 23.6	24.25 ~ 26.5	27.5 ~ 29.5	31.8 ~ 33.4	37.0 ~ 40.0
FCC	T/R Spacing (MHz)	252.04	160 170	300	360	490 500			1560	1200	800			700
FCC	Channel Bandwidth (MHz)	10 30	10 30	10 20 30 40 50	10 20 30 40 50	10 30 40			10 20 30 40 50 80[8]	10 20 30 40 50	10 20 40			10 50
ETSI	T/R Spacing (MHz)	252.04	340	154 161 168 196 245	119 126 208 266 311.32	490 530	266	420 490 728 315 322 644	1008 1010	1008 1232	1008	1008	812	1260
ETSI	Channel Bandwidth (MHz)	29.65	7 14 30 40 60	7 14 28	7 14 28 29.65	40	7 14 28	7 14 28 56	7 13.75 27.5 55	7 14 28 56	7 14 28 56	7 14 28 56	7 14 28 56	7 14 28 56
RF Channel Selection		Via Web GUI												
System Configuration		1 + 0, 1+1 HSB, 1+1 HSB/SD and 2+0												
ATPC Range (dB)		Transmit Power Control – Adaptive, lower power limit varies with RF band down to 1dBm minimum.												

PTP 800 Family of Products	
PTP L6800	L6 GHz
PTP U6800	U6 GHz
PTP 07800	7 GHz
PTP 08800	8 GHz
PTP 11800	11 GHz
PTP 13800	13 GHz
PTP 15800	15 GHz
PTP 18800	18 GHz
PTP 23800	23 GHz
PTP 26800	26 GHz
PTP 28800	28 GHz
PTP 32800	32 GHz
PTP 38800	38 GHz

User Ethernet Data Throughput – ODU-A and ODU-B

Modulation	Maximum Throughput – Mbps (1518 Bytes/Frame)											
	Channel Bandwidth (MHz)											
	7	13.75	14	27.5	28/ 29.65[9]	55	56/60/80	10	20	30	40	50
256 QAM-H	N/A	N/A	N/A	N/A	N/A	364.9	368.6	N/A	N/A	N/A	N/A	N/A
256 QAM-L	N/A	N/A	N/A	166.9	170.4	343.6	347.2	N/A	113.6	177.4	236.7	301.6
128 QAM	34.4	69.8	71.0	148.0	151.1	300.4	303.5	50.9	102.2	155.1	206.9	258.6
64 QAM	30.0	60.7	61.8	122.7	125.3	252.6	255.2	42.8	84.9	130.4 / 135.5[10]	181.9	217.4
32 QAM	24.6	49.9	50.7	99.1	101.2	200.7	202.8	33.7	67.8	103.6	150.7	178.6
16 QAM	20.0	40.6	41.3	73.3	74.8	150.9	152.4	29.1	58.5	77.9	103.9	150.5
8PSK	14.7	29.9	30.4	55.7	56.8	114.6	115.8	20.4	40.3	59.1	78.9	103.7
QPSK	10.1	20.0	20.3	37.0	37.8	76.3	77.1	13.8	28.5	39.4	52.6	65.7

Transmit Power – ODU-A

Modulation	Maximum Transmit Power – ETSI (dBm)								Maximum Transmit Power – FCC (dBm)					
	Frequency (GHz)								Frequency (GHz)					
	6, 7, 8	11	13, 15	18	23, 26	28	32	38	L6	7, 8	11	18	23, 26	38
QPSK	30.0	28.0	26.0	25.5	25.0	25.0	23.0	23.0	22.0	22.0	19.0	23.0	23.0	20.0
8PSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.0	22.0	19.0	22.0	22.0	19.0
16 QAM	28.0	26.0	23.0	22.0	22.0	22.0	21.0	20.0	22.0	22.0	19.0	22.0	22.0	19.0
32 QAM	28.0	26.0	23.0	22.0	22.0	20.0	19.0	20.0	22.0	22.0	19.0	22.0	22.0	19.0
64 QAM	24.0	21.0	18.0	17.0	17.0	17.0	16.0	16.0	22.0	22.0	19.0	17.0	17.0	15.0
128 QAM	24.0	21.0	18.0	17.0	17.0	17.0	16.0	16.0	22.0	22.0	19.0	17.0	17.0	15.0
256 QAM	22.0	19.0	16.0	15.0	15.0	15.0	14.0	14.0	22.0	22.0	19.0	15.0	15.0	13.0

[8] The 80 MHz channel width is available only on the 18 GHz ODU-B.

[9] For Upper 6 GHz only, 30 MHz capacity is equal to 28 MHz capacity.

[10] 135.5 Mbps is available in Lower 6 GHz.

Receive Sensitivity – ODU-A									
BER = 1e-6	Modulation	Frequency (GHz)							
		6, 7, 8	11	13, 15	18	23, 26	28	32	38
Receive Sensitivity @ 56/60 MHz channel (dBm)	256 QAM-H	-63.2	N/A	-63.7	N/A	-63.2	-62.7	-62.2	-61.2
	256 QAM-L	-65.1	N/A	-65.6	N/A	-65.1	-64.6	-64.1	-63.1
	128 QAM	-67.8	N/A	-68.3	N/A	-67.8	-67.3	-66.8	-65.8
	64 QAM	-70.8	N/A	-71.3	N/A	-70.8	-70.3	-69.8	-68.8
	32 QAM	A	N/A	A	N/A	A	-72.9	-72.4	A
	16 QAM	A	N/A	-77.7	N/A	-77.2	-76.7	-76.2	-75.2
	8PSK	A	N/A	A	N/A	A	A	A	A
	QPSK	A	N/A	-83.5	N/A	-83.0	-82.5	-82.0	-81.0
Receive Sensitivity @ 55 MHz channel (dBm)	256 QAM-H	N/A	N/A	N/A	-63.8	N/A	N/A	N/A	N/A
	256 QAM-L	N/A	N/A	N/A	-65.7	N/A	N/A	N/A	N/A
	128 QAM	N/A	N/A	N/A	-68.4	N/A	N/A	N/A	N/A
	64 QAM	N/A	N/A	N/A	-71.4	N/A	N/A	N/A	N/A
	32 QAM	N/A	N/A	N/A	A	N/A	N/A	N/A	N/A
	16 QAM	N/A	N/A	N/A	-77.8	N/A	N/A	N/A	N/A
	8PSK	N/A	N/A	N/A	A	N/A	N/A	N/A	N/A
	QPSK	N/A	N/A	N/A	-83.6	N/A	N/A	N/A	N/A
Receive Sensitivity @ 50 MHz channel (dBm)	256 QAM	-65.3	N/A	N/A	-65.8	-65.3	N/A	N/A	-62.3
	128 QAM	-68.5	N/A	N/A	-69.0	-68.5	N/A	N/A	-65.5
	64 QAM	-71.5	N/A	N/A	-72.0	-71.5	N/A	N/A	-68.5
	32 QAM	-73.8	N/A	N/A	-74.3	-73.8	N/A	N/A	-70.8
	16 QAM	-75.8	N/A	N/A	-76.3	-75.8	N/A	N/A	-72.8
	8PSK	-79.1	N/A	N/A	-79.6	-79.1	N/A	N/A	-76.1
	QPSK	-83.7	N/A	N/A	-84.2	-83.7	N/A	N/A	-80.7
Receive Sensitivity @ 40 MHz channel (dBm)	256 QAM	-66.8	-67.3	N/A	-67.3	-66.8	N/A	N/A	N/A
	128 QAM	-69.5	-70.0	N/A	-70.0	-69.5	N/A	N/A	N/A
	64 QAM	-71.9	-72.4	N/A	-72.4	-71.9	N/A	N/A	N/A
	32 QAM	-74.0	-74.5	N/A	-74.5	-74.0	N/A	N/A	N/A
	16 QAM	-78.9	-79.4	N/A	-79.4	-78.9	N/A	N/A	N/A
	8PSK	-81.1	-81.6	N/A	-81.6	-81.1	N/A	N/A	N/A
	QPSK	-84.7	-85.2	N/A	-85.2	-84.7	N/A	N/A	N/A
Receive Sensitivity @ 30 MHz channel (dBm)	256 QAM	-67.8	-68.5	N/A	-68.5	-68.0	N/A	N/A	N/A
	128 QAM	-70.7	-71.2	N/A	-71.2	-70.7	N/A	N/A	N/A
	64 QAM	-73.0	-74.2	N/A	-74.2	-73.7	N/A	N/A	N/A
	32 QAM	-76.3	-76.8	N/A	-76.8	-76.3	N/A	N/A	N/A
	16 QAM	-80.1	-80.6	N/A	-80.6	-80.1	N/A	N/A	N/A
	8PSK	-82.3	-82.8	N/A	-82.8	-82.3	N/A	N/A	N/A
	QPSK	-85.9	-86.4	N/A	-86.4	-85.9	N/A	N/A	N/A
Receive Sensitivity @ 28/29.65[11] MHz channel (dBm)	256 QAM	-68.2	N/A	-68.7	N/A	-68.2	-67.7	-67.2	-66.2
	128 QAM	-70.9	N/A	-71.4	N/A	-70.9	-70.4	-69.9	-68.9
	64 QAM	-73.9	N/A	-74.4	N/A	-73.9	-73.4	-72.9	-71.9
	32 QAM	-76.4	N/A	-76.9	N/A	-76.4	-75.9	-75.4	-74.4
	16 QAM	-80.3	N/A	-80.8	N/A	-80.3	-79.8	-79.3	-78.3
	8PSK	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	QPSK	-86.1	N/A	-86.6	N/A	-86.1	-85.6	-85.1	-84.1

NOTE:
"A" indicates frequencies that are supported only in the ACM mode.

[11] For Upper 6 GHz only, 30 MHz capacity is equal to 28 MHz capacity.

Receive Sensitivity – ODU-A (continued)									
BER = 1e-6	Modulation	Frequency (GHz)							
		6, 7, 8	11	13, 15	18	23, 26	28	32	38
Receive Sensitivity @ 27.5 MHz channel (dBm)	256 QAM	N/A	N/A	N/A	-68.8	N/A	N/A	N/A	N/A
	128 QAM	N/A	N/A	N/A	-71.5	N/A	N/A	N/A	N/A
	64 QAM	N/A	N/A	N/A	-74.5	N/A	N/A	N/A	N/A
	32 QAM	N/A	N/A	N/A	-77.0	N/A	N/A	N/A	N/A
	16 QAM	N/A	N/A	N/A	-80.9	N/A	N/A	N/A	N/A
	8PSK	N/A	N/A	N/A	A	N/A	N/A	N/A	N/A
	QPSK	N/A	N/A	N/A	-86.7	N/A	N/A	N/A	N/A
Receive Sensitivity @ 20 MHz channel (dBm)	256 QAM	-69.9	N/A	N/A	-70.4	-69.9	N/A	N/A	N/A
	128 QAM	-72.0	N/A	N/A	-72.5	-72.0	N/A	N/A	N/A
	64 QAM	-75.4	N/A	N/A	-75.9	-75.4	N/A	N/A	N/A
	32 QAM	-77.8	N/A	N/A	-78.3	-77.8	N/A	N/A	N/A
	16 QAM	-80.1	N/A	N/A	-80.6	-80.1	N/A	N/A	N/A
	8PSK	-83.1	N/A	N/A	-83.6	-83.1	N/A	N/A	N/A
	QPSK	-87.1	N/A	N/A	-87.6	-87.1	N/A	N/A	N/A
Receive Sensitivity @ 14 MHz channel (dBm)	128 QAM	-73.5	N/A	-74.0	N/A	-73.5	-73.0	-72.5	-71.5
	64 QAM	-75.8	N/A	-76.3	N/A	-75.8	-75.3	-74.8	-73.8
	32 QAM	-77.8	N/A	-78.3	N/A	A	-77.3	-76.8	A
	16 QAM	-80.7	N/A	-81.2	N/A	-80.7	-80.2	-79.7	-78.7
	8PSK	A	A	A	N/A	A	A	A	A
	QPSK	-87.4	N/A	-87.9	N/A	-87.4	-86.9	-86.4	-85.4
Receive Sensitivity @ 13.75 MHz channel (dBm)	128 QAM	N/A	N/A	N/A	-74.0	N/A	N/A	N/A	N/A
	64 QAM	N/A	N/A	N/A	-76.4	N/A	N/A	N/A	N/A
	32 QAM	N/A	N/A	N/A	-78.4	N/A	N/A	N/A	N/A
	16 QAM	N/A	N/A	N/A	-81.3	N/A	N/A	N/A	N/A
	8PSK	N/A	N/A	N/A	A	N/A	N/A	N/A	N/A
	QPSK	N/A	N/A	N/A	-88.0	N/A	N/A	N/A	N/A
Receive Sensitivity @ 10 MHz channel (dBm)	128 QAM	-74.2	-74.6	N/A	-74.6	-74.1	N/A	N/A	-71.2
	64 QAM	-77.4	-77.9	N/A	-77.9	-77.4	N/A	N/A	-74.4
	32 QAM	-80.0	-79.9	N/A	-79.8	-79.4	N/A	N/A	-77.0
	16 QAM	-82.5	-82.8	N/A	-82.8	-82.3	N/A	N/A	-79.5
	8PSK	-85.1	-85.1	N/A	-85.1	-84.6	N/A	N/A	-82.1
	QPSK	-90.0	-89.5	N/A	-89.5	-89.0	N/A	N/A	-87.0
Receive Sensitivity @ 7 MHz channel (dBm)	128 QAM	-76.5	N/A	-77.0	-77.0	-76.5	-76.0	-75.5	-74.5
	64 QAM	-78.8	N/A	-79.3	-79.3	-78.8	-78.3	-77.8	-76.8
	32 QAM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	16 QAM	-83.7	N/A	-84.2	-84.2	-83.7	-83.2	-82.7	-81.7
	8PSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	QPSK	-90.4	N/A	-90.9	-90.9	-90.4	-89.9	-89.4	-88.4

Transmit Power – ODU-B			
Modulation	Maximum Transmit Power – FCC (dBm)		
	Frequency (GHz)		
	11	18	23
QPSK	20.0	24.0	23.0
8PSK	20.0	23.0	23.0
16 QAM	20.0	23.0	23.0
32 QAM	20.0	23.0	23.0
64 QAM	20.0	19.0	19.0
128 QAM	20.0	19.0	19.0
256 QAM	20.0	17.0	17.0

Receive Sensitivity – ODU-B				
BER = 1e-6	Modulation	Frequency (GHz)		
		11	18	23
Receive Sensitivity @ 80 MHz channel (dBm)	256 QAM-H	N/A	-63.7	N/A
	256 QAM-L	N/A	-65.6	N/A
	128 QAM	N/A	-68.3	N/A
	64 QAM	N/A	-71.3	N/A
	32 QAM	N/A	-74.1	N/A
	16 QAM	N/A	-77.3	N/A
	8PSK	N/A	-79.9	N/A
	QPSK	N/A	-83.5	N/A
Receive Sensitivity @ 50 MHz channel (dBm)	256 QAM	N/A	-65.8	-65.3
	128 QAM	N/A	-69.1	-68.6
	64 QAM	N/A	-72.1	-71.6
	32 QAM	N/A	-74.5	-74.0
	16 QAM	N/A	-76.7	-76.2
	8PSK	N/A	-79.9	-79.4
	QPSK	N/A	-83.9	-83.4
Receive Sensitivity @ 40 MHz channel (dBm)	256 QAM	-67.1	-67.1	-66.6
	128 QAM	-70.1	-70.1	-69.6
	64 QAM	-72.6	-72.6	-72.1
	32 QAM	-74.5	-74.5	-74.0
	16 QAM	-79.1	-79.1	-78.6
	8PSK	-81.4	-81.4	-80.9
	QPSK	-85.2	-85.2	-84.7
Receive Sensitivity @ 30 MHz channel (dBm)	256 QAM	-68.2	-68.2	-67.7
	128 QAM	-71.4	-71.4	-70.9
	64 QAM	-73.6	-73.6	-73.1
	32 QAM	-77.2	-77.2	-76.7
	16 QAM	-80.3	-80.3	-79.8
	8PSK	-82.6	-82.6	-82.1
	QPSK	-86.3	-86.3	-85.8
Receive Sensitivity @ 20 MHz channel (dBm)	256 QAM	N/A	-70.2	-69.7
	128 QAM	N/A	-72.7	-72.2
	64 QAM	N/A	-75.9	-75.4
	32 QAM	N/A	-78.4	-77.9
	16 QAM	N/A	-80.6	-80.1
	8PSK	N/A	-83.7	-83.2
	QPSK	N/A	-88.0	-87.5
Receive Sensitivity @ 10 MHz channel (dBm)	128 QAM	-74.7	-74.7	-74.2
	64 QAM	-77.9	-77.9	-77.4
	32 QAM	-80.5	-80.5	-80.0
	16 QAM	-83.0	-83.0	-82.5
	8PSK	-85.6	-85.6	-85.1
	QPSK	-90.5	-90.5	-90.0

NOTE:
While the information presented herein is, to the best of our knowledge, true and accurate, the information provided in this document is subject to change without notice.

For more information, refer to the Cambium PTP 800 Series Brochure or visit cambiumnetworks.com.

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