

PTP 550: 1.4 Gbit CAPACITY

Cambium Network is excited to introduced our latest Point to Point Gigabit throughput solution based on 802.11 ac Wave 2 operating in 5 GHz wireless space, that address gigabit capacity need for high speed backhaul solution for mid range and long range applications. The PTP 550 solution draws it attributes from Cambium's Point to Point product portfolio such as PTP 650/670 and PTP 450i

METAL HOUSING

Each PTP 550 comes with IP66/67 Metal enclosure, which protects the radio from extreme condition and solar radiation

ANTENNA ALIGNMENT

Using GUI e-alignment on the radio, the PTP 550 provides accurate and reliable way to install the radio

CHANNEL BONDING

Each channel can have independent channel bandwidth that provides for flexibility in channel selection, band selection and address throughput requirements. Using two 80 MHz channel the PTP 550 achieves 1.36 Gbps.

Dynamic Spectrum Optimization (DSO)*

With Dynamic Spectrum Optimization, PTP 550 systems are constantly optimizing the channel of operation to maximize link reliability and performance. Based on environment the PTP 550 can be set to move or search better spectrum. As a result, customer can get more throughput with limited spectrum in even the most challenging environments

OTHER KEY FEATURES

- 5.150 to 5.950 GHz
- Up to 1.36 Gbps
- Built in Live Spectrum analyzer
- IPv6/IPv4 dual-stack management support
- AES 128 Encryption
- LINKPlanner Support
- cnMaestro Support
- ARQ Support



RADIO TECHNOLOGY													
MODEL	PTP 550 Connectorized PTP 550 Integrated												
RF BANDS	Wide-band operation 5.150 to 5.950 GHz (Allowable frequencies and bands are dictated by individual country regulations)												
CHANNEL SIZES	2 channels, each channel with 20, 40, and 80 MHz												
SPECTRAL EFFICIENCY	8.5 bps/Hz maximum												
CHANNEL SELECTION	Fixed frequency or DSO*												
MAXIMUM TRANSMIT POWER	Up to 27 dBm												
SYSTEM GAIN	Up to 173 dB with Integrated Antenna												
RECEIVER SENSITIVITY	<table border="1"> <thead> <tr> <th>MCS\Rx Sensitivity</th> <th>20 MHz</th> <th>40 MHz</th> <th>80 MHz</th> </tr> </thead> <tbody> <tr> <td>Lowest MCS</td> <td>-90 dBm</td> <td>-87 dBm</td> <td>-83 dBm</td> </tr> <tr> <td>Highest MCS</td> <td>-66 dBm</td> <td>-62 dBm</td> <td>-59 dBm</td> </tr> </tbody> </table>	MCS\Rx Sensitivity	20 MHz	40 MHz	80 MHz	Lowest MCS	-90 dBm	-87 dBm	-83 dBm	Highest MCS	-66 dBm	-62 dBm	-59 dBm
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MODULATION	MCS 0 to MCS 9												
DUPLEX SCHEME	Time Division Duplex (TDD) Multiple transmit/receive duty cycles Split frequency operation allows separate transmit and receive frequencies where allowed by regulation.												
ANTENNA	Integrated Flat panel: 23 dBi Connectorized: Can operate with a selection of separately-purchased single- and dual-polarity antennas through 2 x N-type female connectors												
RANGE	Up to 122 miles (200 km)												
SECURITY	128-bit AES Encryption Factory mode recovery												
ETHERNET BRIDGING													
PROTOCOL	IEEE 802.3												
LATENCY	4-5 ms one direction												
PACKET CLASSIFICATION	Layer 2 and Layer 3 IEEE 802.1p, Ethernet priority												
MAX PACKET SIZE	1700 Bytes												
FLEXIBLE I/O	1 Gigabit Port: Data + PoE power input 1 SFP port (single-mode fiber, multi-mode fiber, and copper Gigabit Ethernet options available)												
MANAGEMENT													
NETWORK MANAGEMENT	In-band management												
SYSTEM MANAGEMENT	IPv6/IPv4 dual-stack management support SNMPv2 and SNMPv3, https, WPA-PSK2 Online spectrum analyzer (no impact on payload traffic)												
INSTALLATION	Built-in e-alignment using GUI on Radio to assist in installation												

PHYSICAL	
DIMENSIONS	Integrated Outdoor Unit (ODU): Width 305mm (12"), Height 305mm (12"), Depth 68mm (2.2") Connectorized ODU: Width 278mm (11"), Height 185mm (7"), Depth 88mm (3.5")
WEIGHT	Integrated ODU: 2.2 kg (4.85 lbs) including bracket Connectorized ODU: 1.6 kg (3.5 lbs) including bracket
OPERATING TEMPERATURE	-40° to +140° F (-40° to +60° C), including solar radiation
DUST- WATER INTRUSION PROTECTION	IP66 and IP67
WIND SPEED SURVIVAL	200 mph (322 kph)
POWER SUPPLY	AC power injector: 32° to 104° F (0° to +40° C); 35 W; 90-240 VAC, 50/60Hz Dimensions: Width 5.2"(132mm), Height 1.4"(36mm), Depth 2"(51mm)
POWER CONSUMPTION	30 W maximum
ENVIRONMENTAL & REGULATORY	
PROTECTION AND SAFETY	UL60950-1/22; IEC60950-1/22; EN60950-1.22; CSA-C22.2 No. 60950-1/22; CB approval with all National Deviations
RADIO	5.x GHz: FCC Part 15E ; RSS 247 Issue 2; EN 302 502; EN 301 893
EMC	US Part 15B, Canada RSS-GEN, Europe – EN 301 489-1 and -17