

# Cambium PTP 550 Integrated 5 GHz Radio, 1.36 Gbps

SKU: WIF-CB-00026  
MPN: C050055H012A

## Description

Cambium's PTP 550 is a 5 GHz point-to-point microwave radio capable of providing data throughput up to 1.36 Gb/s with very high reliability.

The PTP 550 model has been developed to meet the need for gigabit capacity while providing interference resistance in the increasingly congested 5 GHz spectrum. By operating in a 2+0 dual radio mode, PTP 550 can be configured to aggregate a mix of channel sizes and frequencies to protect against changing spectral conditions.

The unit can be set to use any two 20, 40, 80 MHz channels within the entire 5 GHz band to achieve in excess of 1.36 Gb/s of L2 throughput using modulation up to 256QAM and 2x2 MIMO. For example, in a congested area an 80 MHz DFS channel may be paired with a 20 MHz channel in the 5.8 GHz band to mitigate the risk of a radar hit while maintaining very high data rates.

Dynamic Channel Selection (DCS) means the radio continually searches for the cleanest channels and moves band ...

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With its Motorola legacy and metal enclosure it should be no surprise the unit boasts a working life (MTBF) of over 40 years. PTP 550 provides industrial grade performance with IP66 / IP67 ingress protection.

If the application requires gigabit throughput on the 5 GHz band,



## Cambium Networks

Cambium Networks enables service providers; enterprises; governmental and military agencies; oil, gas and utility companies; Internet service providers; and public safety organizations to build powerful communications networks, reach users from 200 kilometers across mountain tops down to their devices, and intelligently manage their business Wi-Fi infrastructure through end-to-end network ...

## Network Interfaces

### Wireless Interfaces

Topology:	Point-to-Point (P2P)	Max. Clients:	1
Max. Throughput:	1360 Mb/s	Latency:	5 ms
Encryption:	AES-128	Aggregate Channel Width:	160 MHz

### Radio A

Transmit Power:	27 dBm	Receive Sensitivity:	-82 dBm
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Wireless Bands	Start Frequency	Stop Frequency	MIMO	Channel Width	Modulation	Max. Data Rate
5 GHz	5170 MHz	5980 MHz	2x2 MIMO	80 MHz	256QAM	756 Mb/s

### Radio B

Transmit Power:	27 dBm	Receive Sensitivity:	-82 dBm
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Wireless Bands	Start Frequency	Stop Frequency	MIMO	Channel Width	Modulation	Max. Data Rate
5 GHz	5170 MHz	5980 MHz	2x2 MIMO	80 MHz	256QAM	756 Mb/s

### Ethernet Interfaces

Interface	Quantity	Function	Signalling	PoE Input
RJ45 Copper	1	Management & Data + PoE	100BASE-T, 1000BASE-T	802.3at PoE+
SFP Fibre/Copper	1	Management & Data	100BASE-T, 1000BASE-T, 1000BASE-X	

### Antenna Specifications

Start Frequency:	5170 MHz	Polarisation:	Dual Pol (V, H)
Stop Frequency:	5980 MHz	Input Impedance:	50

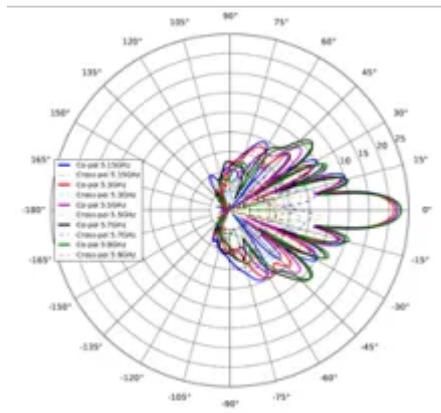
### Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Azimuth	Elevation
5170 MHz	5980 MHz	23 dBi	5°	6°

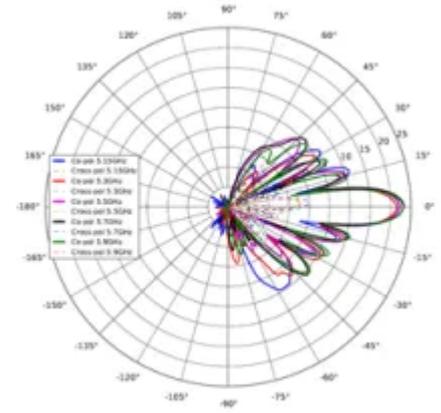
### Polar Patterns

Start Frequency: 5150 MHz  
 Stop Frequency: 5980 MHz

Azimuth Polar Plot



Elevation Polar Plot



## Physical Specification

Subtype:	Wireless Bridge	Dimensions:	305 × 68 × 305 mm
Min. Operating Temperature:	-40 °C	Weight:	2.2 kg
Max. Operating Temperature:	85 °C	Materials:	Aluminium
Ingress Protection:	IP67	Mounting:	Cambium 4/8-Bolt Pattern
MTBF:	> 350000 h	Compliance/Certifications:	ISO 9001 Quality Management

### Power Specifications

Max. Consumption:	30 W
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