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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, PTP 550 is the solution. The model shown includes an integrated dual-polarised 23 dBi patch array antenna, however a connectorised variant is also available, allowing connection of high gain parabolic antennas to provide high throughput connectivity significantly further. Aggregated throughputs of over 200 Mb/s have been achieved beyond 45 kilometres.

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**CambiumTM
Networks**

[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. Throughput

1360 Mb/s

Encryption

[AES-128](#)

Max. Clients

1

Latency

5 ms

Aggregate Channel Width

160 MHz

Radio A

Transmit Power

27 dBm

Receive Sensitivity

-82 dBm

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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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

Stop Frequency

5980 MHz

Polarisation

[Dual Pol \(V, H\)](#)

Input Impedance

50 Ω

Frequency Test Data

Start Freq. Stop Freq. Peak Gain Azimuth Elevation

5170 MHz 5980 MHz 23 dBi 5° 6°

Polar Patterns

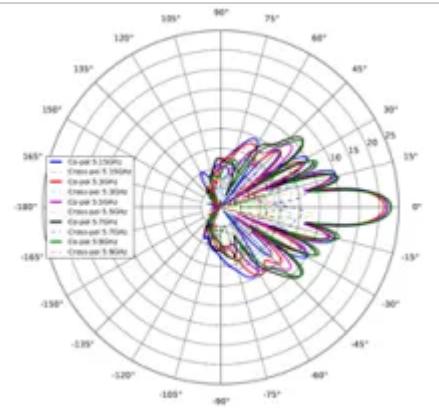
Start Frequency

5150 MHz

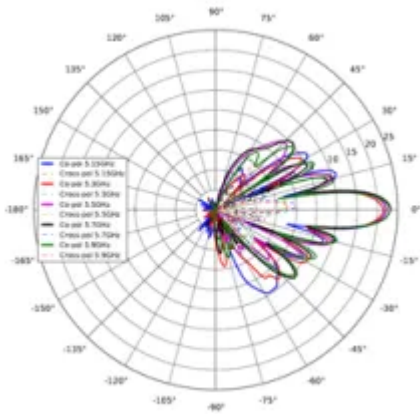
Stop Frequency

5980 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

Subtype

Wireless Bridge

Min. Operating Temperature

-40 °C

Max. Operating Temperature

85 °C

Ingress Protection

IP67

MTBF

> 350000 h

Dimensions

305 × 68 × 305 mm

Weight

2.2 kg

Materials

Aluminium

Mounting

Cambium 4/8-Bolt Pattern

Compliance/Certifications

ISO 9001 Quality Management

Power Specifications

Max. Consumption

30 W

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