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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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Cambium 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

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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

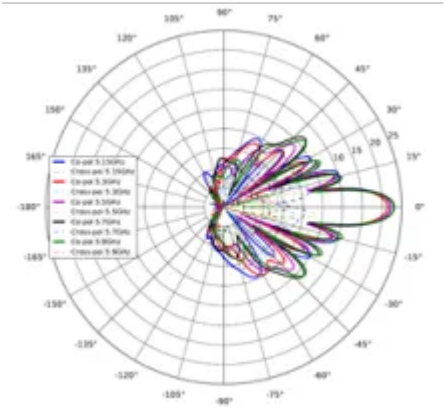
Start Frequency

5150 MHz

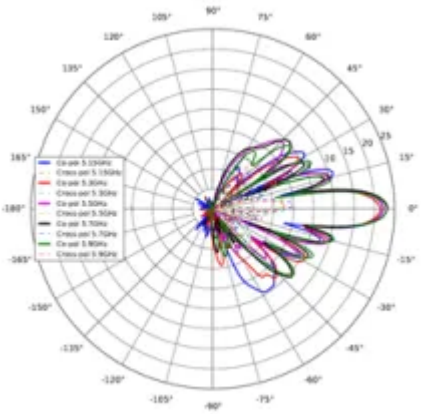
Stop Frequency

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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