

Point-to-Point
Wireless Broadband Solutions
BUILT TO PERFORM.

Backhaul links are the vital infrastructure that connects the network. You need confidence that your solution will work under heavy demand, regardless of the conditions. Cambium point-to-point (PTP) licensed and unlicensed backhauls perform so that you can focus on your business.

Applications

Our solutions are designed with industry-leading throughput and spectral efficiency and have a cumulative 4 billion operational field hours worldwide.

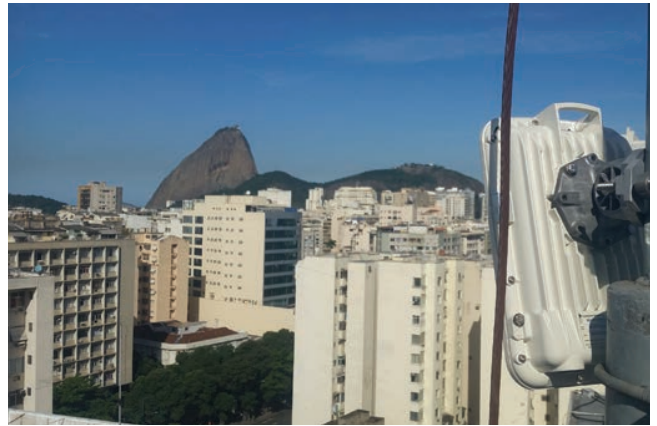
- **Network Infrastructure** – Whether it's for a business campus, multiple government offices, a fiber network, or a backbone for a network providing residential access, PTP links provide high-capacity throughput to bring connectivity to a new location.
- **3G/4G mobile wireless backhaul** – With small form-factors, precise timing protocols, and all-outdoor deployment models, PTP links can provide connectivity to small cell and macro cell infrastructure to add capacity or to fill coverage gaps.
- **Leased Line Replacement** – PTP links are ideal to eliminate the recurring costs of leased circuits, often providing an ROI in only a few months. Links can be created to provide primary or backup service.
- **Disaster Recovery** – Communications are vital in the wake of a disaster. When communications are wiped out, PTP links can be rapidly deployed to provide video, voice, and data services to support recovery teams and families in need.

The Cambium Difference

Our innovative solutions provide reliable, secure, cost-effective connectivity that is easy to deploy and built to last. PTP backhaul solutions provide proven reliability and performance, even in the most demanding environments. Solutions come with a variety of features so that you can build the network to meet your needs.

- **Exploiting unique Line of Sight (LOS) Multiple Input Multiple Output (MIMO) technology** in the licensed spectrum PTP 820 product, with modulation up to 2048 QAM and wider channel bandwidth, ensures industry-leading throughput and spectral efficiency.
- **Dual-core functionality** in PTP 820C enables the system to operate up to 2 Gbps via software upgrade, eliminating the need for future forklift upgrades or major system overhaul by the network operator, to deliver gigabit-plus capacity.
- **Dynamic Spectrum Optimization™ (DSO)** – DSO is a unique capability offered by Cambium Networks in our PTP 650 and PTP 700 products that automatically samples and changes channels to avoid interference without affecting link service.
- **Spectral Efficiency** – Spectrum is scarce, and wide channels are hard to find. Our PTP solutions provide the highest throughput in the minimum amount of spectrum.
- **Total Cost of Ownership** – Run your network for less with an IP-based wireless network that comprises licensed and unlicensed backhaul and access components, rapidly deployed and reliable, with minimal maintenance cost.
- **Sustainability** – Trust solutions designed to operate for years from a supplier with a proven track record of stability and sustainable product evolution. With analytics working in the background, the customer experiences the highest throughput and lowest latency.
- **Industry Certifications** – Our PTP solutions are agency vetted for security and carry the following industry certifications:

ATEX/HAZLOC FIPS 140-2 Validation IP66/IP67



Planning and Management

LINKPlanner software helps design links by modeling access network performance and availability before installation. *cnMaestro™* Management software provides map-based visualization of the entire end-to-end network with diagnostic tools for configuration, provisioning, and alarm reporting.

Select your wireless broadband backhaul:

Licensed Band Solutions



PTP 820



PTP 700



PTP 450i

Configurations	Full outdoor, Split Mount, all indoor	Full outdoor connectorized or connectorized	Full outdoor, integrated or connectorized
Frequency	6 – 42 GHz	4.4 to 5.9 GHz	3.5, 3.65, 4.9 – 5.9 GHz
Throughput	Up to 2 Gbps full duplex	450 Mbps	200+ Mbps

Sub-6 GHz Unlicensed Band Solutions



PTP 650



PTP 450



ePMP™ Force 200

Configurations	Full outdoor, integrated or connectorized	Full outdoor, integrated or connectorized	Full outdoor integrated
Frequency	4.9 – 6.05 GHz	900 MHz, 3.5, 3.65, 5.4/5.7 GHz	5 GHz
Throughput	450 Mbps	200+ Mbps	200 Mbps

ABOUT CAMBIUM NETWORKS

Cambium Networks is a leading global provider of wireless broadband solutions that connect the unconnected. Through its extensive portfolio of reliable, scalable, and secure WiFi and wireless broadband point-to-point (PTP) and point-to-multipoint (PMP) platforms managed by cloud-based software, Cambium Networks makes it possible for all service providers; enterprises; governmental and military agencies; oil, gas, and utility companies; Internet service providers; and public safety networks to build powerful communications networks, reach users from 250 kilometers across mountain tops down to the last meter to their devices, and intelligently manage their infrastructure through end-to-end network visibility and actionable analytics. Headquartered outside Chicago and with R&D centers in the U.S., Ashburton, U.K., and Bangalore, India, Cambium Networks sells through a range of trusted global distributors.

For more information, visit:
www.cambiumnetworks.com and
<http://www.connectingtheunconnected.org>.

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