

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. Licensed and unlicensed point-to-point (PTP) solutions from Cambium Networks perform reliably so that you can focus on your business.

## Applications

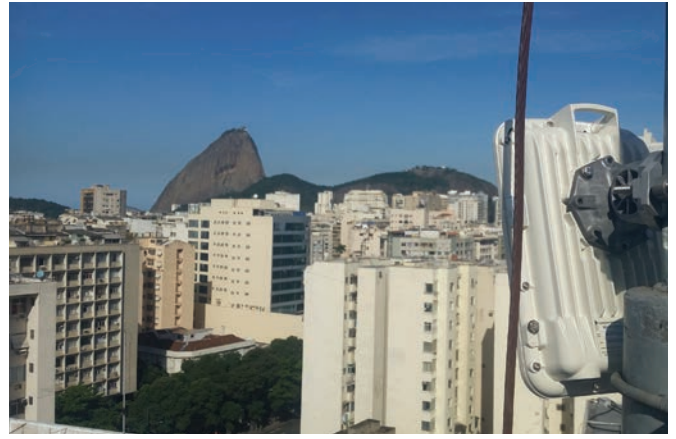
Our solutions are designed with industry-leading throughput and spectral efficiency.

- **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.
- **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 land line 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)** – is a unique capability offered by Cambium Networks in our PTP 670 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 solution 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 connectorgrated	Full outdoor, integrated or connectorized
Frequency	6 - 38 GHz	4.4 to 5.9 GHz	3.3 to 3.9 GHz 4.9 to 5.9 GHz
Throughput	Up to 2 Gbps full duplex	450 Mbps	250+ Mbps

## Sub-6 GHz Unlicensed Band Solutions



**PTP 550**



**PTP 670  
High Capacity Multipoint  
(HCMP)**



**PTP 450i**



**ePMP™  
Bridge-in-a-Box**

Configurations	Integrated or connectorized	Full outdoor, integrated or connectorized	Full outdoor, integrated or connectorized	Full outdoor, integrated
Frequency	5.15 - 5.85 GHz	4.9 - 6.05 GHz	3.3-3.8 GHz 5.4-5.8 GHz	4.9-5.9 GHz
Throughput	1.36 Gbps	450 Mbps	200+ Mbps	200 Mbps

## ABOUT CAMBIUM NETWORKS

Cambium Networks is a leading global provider of wireless connectivity solutions that strengthen connections between people, places and things. Specializing in providing an end-to-end wireless fabric of reliable, scalable, secure, cloud-managed platforms that perform under demanding conditions, Cambium Networks empowers service providers and enterprise, industrial and government network operators to build intelligent edge connectivity. Cambium Networks' commitment to continuous innovation and social responsibility in wireless access is demonstrated in the millions of radios deployed in thousands of networks that benefit communities around the world. Headquartered outside Chicago and with R&D centers in the U.S., U.K. and India, Cambium Networks sells through a range of trusted global distributors.

**[www.cambiumnetworks.com](http://www.cambiumnetworks.com)**

**[www.connectingtheunconnected.org](http://www.connectingtheunconnected.org)**

### ***India Office***

Cambium Networks Consulting Private Ltd  
5th Floor, Quadrant 1, Umiya Business Bay, Tower 2, Outer Ring Road,  
Kadubisenahalli, Varthur Hobli Road, Bangalore East  
Taluk, Bangalore- 560037  
+91 80 67333100

### ***San Jose Office***

2010 N. 1st Street, Suite 400  
San Jose, CA 95131 USA

### ***US Office***

3800 Golf Road, Suite 360.  
Rolling Meadows, IL 60008 USA  
+1 888 863 5250

### ***UK Office***

Unit B2, Linhay Business Park,  
Eastern Road, Ashburton, United Kingdom, TQ13 7UP  
+44 1364 655500