Cambium Networks™
Wireless That Just Works
At Cambium Networks, we and our partners are creating superior wireless connections for people, places and things.

We believe that all wireless spectrum is a scarce natural resource and radio-based solutions should use that resource responsibly. Our customers have a choice in deploying the wireless solution best suited for their requirements, whether it’s in a classroom or retail store, over a large geographic territory, or spanning a smart city or industrial environment.

We challenge fiber with wireless solutions that deliver last mile network performance and reliability.

We know that wireless networks must constantly evolve and operate without physical human intervention.

Cambium Networks delivers gigabit wireless solutions that just work.
Growth in Wireless Performance

Deliver wireless gigabit connectivity where you need it at a fraction of the cost of fiber. Our portfolio of solutions lets you tailor the network to meet your needs. Software-defined radios (SDR) enable you to upgrade capabilities as your end devices evolve. View the end-to-end network with cloud-based management to maximize availability and minimize maintenance costs. All solutions are backed by our global organization that provides support services designed to meet your business needs.

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<td>Baby Monitor</td>
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Wireless Communications Experts

We know that no one technology fits all use cases. That’s why we leverage multiple frequencies and technologies to make it easier for wireless network operators to efficiently and effectively employ the best technology for the application. Network operators can have confidence in our trusted wireless experts who deliver solid connectivity solutions.

RECENT INDUSTRY AWARDS

**2019**
Best Stay in Tourism
- Chicago Innovation Award
- WISPA Manufacturer of the Year

**2018**
- InformationWeek Tech Vendors to Watch
- WISPA Manufacturer of the Year
- CRN Partner Program Award
Wireless Intelligent Edge Solutions

The intelligent edge is here now. Field proven in our Wi-Fi products, intelligent edge capabilities are built into our new wireless solutions and switches. Extend connectivity. Enhance security. Increase efficiency.

Field-Proven Technologies

Cambium solutions employ the best technologies to yield optimal coverage and capacity to provide the highest business value.

Intelligent Edge Features

- Autonomous operation
- Controller-less provisioning
- Intelligent antennas
- Local authentication
- Resilience to loss of cloud
- Zero-touch provisioning

MARKETS and SOLUTIONS

Enterprise

Provide connectivity for people, IoT devices and apps that scale from the smallest businesses or distributed enterprises to high-density venues and challenging industrial environments.

Education

Offer high-capacity networks that serve individual schools, networks of schools or campuses — optimizing learning time and student safety.

Hospitality and Multi-Dwelling Units (MDU)

Securely and easily provide guests or residents in hotels, hospitals, retirement communities or apartment buildings high-performance Wi-Fi.

Government Agencies

Enhance connectivity for public safety, public administration and public works.

National Defense

Rapidly deploy wireless connectivity for Federal security and mission-critical operations. Our field-proven, agency-vetted solutions provide reliable Wi-Fi and broadband for video, voice and data applications.

Broadband Service Providers and Managed Service Providers

Profitably grow and provide connectivity services to residential and business customers.
## Breakthrough Technologies

### Centralized Management

- **cnMaestro™**
  - Secure, end-to-end control for the wireless fabric
  - Cloud or on-premises management

- **XMS & EasyPass Wi-Fi Management**
  - Simple, scalable, secure
  - Secure user and device access
  - Cloud and on-premises options

### Fixed Wireless Software

- **LINKPlanner**
  - Reliable connection and coverage design

- **cnArcher™**
  - Zero-touch network configuration

- **cnHeat**
  - Identification of and marketing to new customers

### Network Infrastructure

#### Enterprise Wi-Fi & Switching

- **X-Series**
  - 802.11ac with migration to Wi-Fi 6
  - High-density
  - Indoor and outdoor
  - Cloud-managed

- **E-Series**
  - 802.11ac with migration to Wi-Fi 6
  - Indoor and outdoor
  - Cloud-managed

#### Fixed Wireless

- **LTE**
  - Fixed LTE
  - Integrated RAN and EPC
  - 2.5 GHz and 3 GHz

- **60 GHz**
  - Gigabit throughput
  - 60 GHz band
  - Software-defined radio

- **N500 SCADA Process Control**
  - IIoT narrowband connectivity
  - Licensed and unlicensed spectrum

#### EX-Series Switches

- 8/16/24/48 Ports, 4 x SFP+
- PoE options: 400W - 1000W
- Enterprise Grade L2/L3 functionality

#### PMP 450m

- 14x14 cnMedusa
- Massive MU-MIMO
- 3 and 5 GHz

#### ePMP 3000

- 4x4 MU-MIMO and 80 MHz channel support
- Higher capacity, spectral efficiency

#### Video Surveillance Backhaul

- 4.9 GHz to 5.9 GHz
- 600 Mbps throughput
- IP67
- ONVIF
- Genetec VMS
We Make It Easy to Achieve Superior Performance

Wireless technology is deployed at a faster rate and lower cost than fiber. Cloud-based management with automated provisioning minimizes setbacks while improving efficiency. Our solutions deliver the disruptively low total cost of ownership (TCO) and are future-proof to gracefully evolve as needs and technology change.

Management Made Easy
Centrally defined network policies are consistently enforced at the edge. Define and configure policy in the cnMaestro cloud-based management system and push configuration settings across the entire network to boost consistency. Policy engines that reside locally on both the switch and transmission elements provide secure connectivity.

Simple to Design in Security
Misconfigurations in manual data entry lead to security breaches and outages. Configure virtual networks for different user groups at the demarcation. New devices are automatically detected and authorized for specific services.

“Our decision to choose Cambium Networks boils down to tech innovation, excellent customer support and amazingly low cost of ownership.”

Josh Romandia, CEO, Montana Internet Corporation
100 Gbps Wireless Performance from Cloud to Client

Leverage our experience into your connectivity solutions now and as needs evolve.

Network Architecture

Internet → cnMaestro

Cloud-Based Options
• On-Premises
• Stand Alone

Core

PTP Backhaul
Licensed Microwave
Sub 6 GHz

Distribution

PMP Distribution
Fixed LTE Standard
MU-MIMO
Millimeter Wave 60 GHz
Licensed and Unlicensed Spectrum
Industry-Leading Spectral Efficiency

Switch

Enterprise Switch
Gbps Speed
Port Capacity Options
PoE Port Options

Access

Wireless Aware
Enterprise Switch

IloT:
• Narrowband Connectivity
• Licensed and Unlicensed Spectrum
• Long-range SCADA Backhaul

Wi-Fi:
• High-Density,
• High-Capacity MIMO

Affordable Options for SMB
Indoor and Outdoor
802.11ac with Migration to 802.11ax Wi-Fi 6

100 Gbps Wireless Performance from Cloud to Client

We have built our network the way that we have, selected the vendors that we have and chosen the partners we have to help us ensure that we can deliver rock solid internet to all of our clients.”

Jeff Hardy, Network Engineer, Moscone Center - San Francisco, California, USA
Solutions

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<tr>
<th>Enterprise Wi-Fi &amp; Switching</th>
<th>Fixed Wireless</th>
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<tbody>
<tr>
<td>Wireless Network Management</td>
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<tr>
<td>Wi-Fi Access Points</td>
<td>Long-Range Backhaul</td>
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<td><em>Indoor and outdoor</em></td>
<td>Wide-Area Distribution</td>
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<td>Switches</td>
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<td>Network Applications and Service</td>
<td>SMB Wi-Fi</td>
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<td>Wi-Fi Network Planning Tools</td>
<td>Residential Wi-Fi</td>
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<td>Accessories</td>
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<td>Ecosystem Partners</td>
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 Technologies Applied to Deliver Results

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<tr>
<th>Proven Performance</th>
<th>Key Technologies</th>
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<tr>
<td>Maximize Throughput in Limited RF Spectrum</td>
<td>• 5G&lt;br&gt;• Adaptive Modulation&lt;br&gt;• Air Fairness&lt;br&gt;• Automatic RF Optimization&lt;br&gt;• Beamforming and Beamsteering&lt;br&gt;• Dynamic Spectrum Optimization&lt;br&gt;• GPS Synchronization&lt;br&gt;• MU-MIMO&lt;br&gt;• Smart Antennas</td>
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<tr>
<td>Wireless Wide Area Networks (WAN) deliver high spectral efficiency</td>
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<tr>
<td>• 45 bits/s/Hz in Point-to-Multipoint&lt;br&gt;• 11.34 bits/s/Hz in Point-to-Point</td>
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| Achieve Maximum Network Productivity with Limited Resources | |
| Cloud-based management minimizes maintenance costs | • Autonomous Operation<br>• Cloud Management<br>• Controller-less Provisioning<br>• Application Policy Control<br>• Over-the-Air Rekeying<br>• Resilience to Loss of Cloud<br>• Software-Defined Radio (SDR)<br>• Zero-Touch Configuration |
| Moscone Convention Center provides Wi-Fi to 18,000+ attendees using Cambium Networks gear | |
| Leading supplier of wireless broadband to Oil and Gas industry | |
| WAN supports the highest number of subscriber modules (SM) per access point (AP) sector | |

| Maximize End-User Satisfaction | Maximize student learning |
Prior to installation of the PMP 450m, customers were limited to 8-10 Mbps packages. We can now, with confidence, provide up to 50 Mbps speeds to customers.

Barry Wilson, Country Manager Eurona Ireland
Support That Goes Beyond the Technology

Partner Program

Award-winning program for over 7,400 resellers and systems integrators.

Warranty

**OUTDOOR:** Up to 3-Year Limited Warranty  
**INDOOR:** Up to 5-Year Limited Warranty

Support

- 24/7 enterprise-class support for mission-critical networks  
- Community of more than 30,000 operators

Wireless Learning Opportunities for All

- Technical Certification Program  
- Online Training Courses  
- Live Webinars  
- Instructor-Led Classes

Social Responsibility

We promote education, reach out to under-served populations and support relief efforts in the wake of disaster.

Connectivity projects include:

- Bicycle Donations  
- Disaster Recovery  
- Housing  
- Hospitals  
- Schools  
- Shelters

“Our client is now using wireless solutions from Cambium as both their primary and failover communications network.”  
Sandeep Varma, Managing Director, Textra Solutions Pvt. Ltd. - Hyderabad, Telangana, India