



Wireless Connectivity
Solutions for
Video Surveillance Backhaul

Benefits:

High Performance – As High Dynamic Range (HDR) video technology becomes more common the need for high performance wireless connectivity becomes more critical to accommodate the higher throughput requirements.

Scalable and Secure – Scalable technology with GPS synchronization and frequency reuse supports up to 238 modules per AP without degrading system performance. In addition, industry leading spectral efficiency allows operators to get the most throughput out of limited spectrum.

Wireless connectivity solutions from Cambium Networks can be equipped with the following security features:

- 128-bit AES encryption
- Multi-level user authentication
- 256-bit AES encryption
- Remote Password Maintenance

Fast Installation – Wireless technology means there is no need for time consuming and expensive trenching or right-of-way issues that cause inconvenience and delay. Single camera solutions can be installed in a matter of hours, and major deployments in weeks.

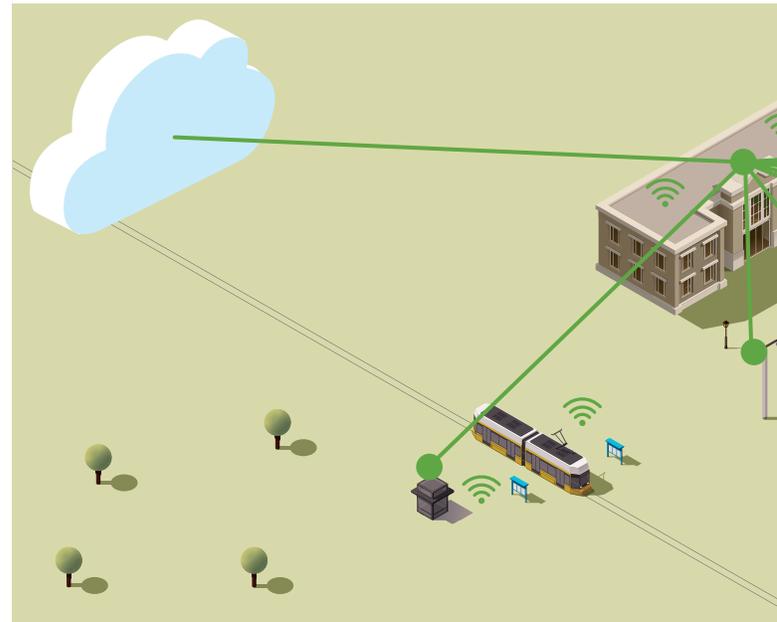
Cambium also offers PMP and PTP products with 802.3at PoE out auxiliary ports to provide data and power connections directly to security cameras to eliminate the additional cable, simplifying installation.

Flexible Architecture – Cambium Networks' PMP and PTP solutions provide flexible design options, with products supporting Hub and Spoke or Linear architecture to support all types of deployment scenarios.

Easy Planning and Management – Free LINKPlanner software removes guesswork from planning and provides a comprehensive model of RF and system performance to be sure that the system works right the first time when installed.

The cnMaestro™ management system provides a bird's eye view of the entire end-to-end communications network, enables rapid on-boarding and provisioning of new nodes, and offers detailed fault and alarm management.

Reliable – With millions of wireless broadband modules deployed around the world, Cambium Networks solutions are proven to work in any climate or application. Cambium devices are commonly deployed in mission critical networks and designed for (5) 9's or greater reliability.



Applications:

Public safety

Vandalism deterrence

Traffic monitoring

Theft prevention

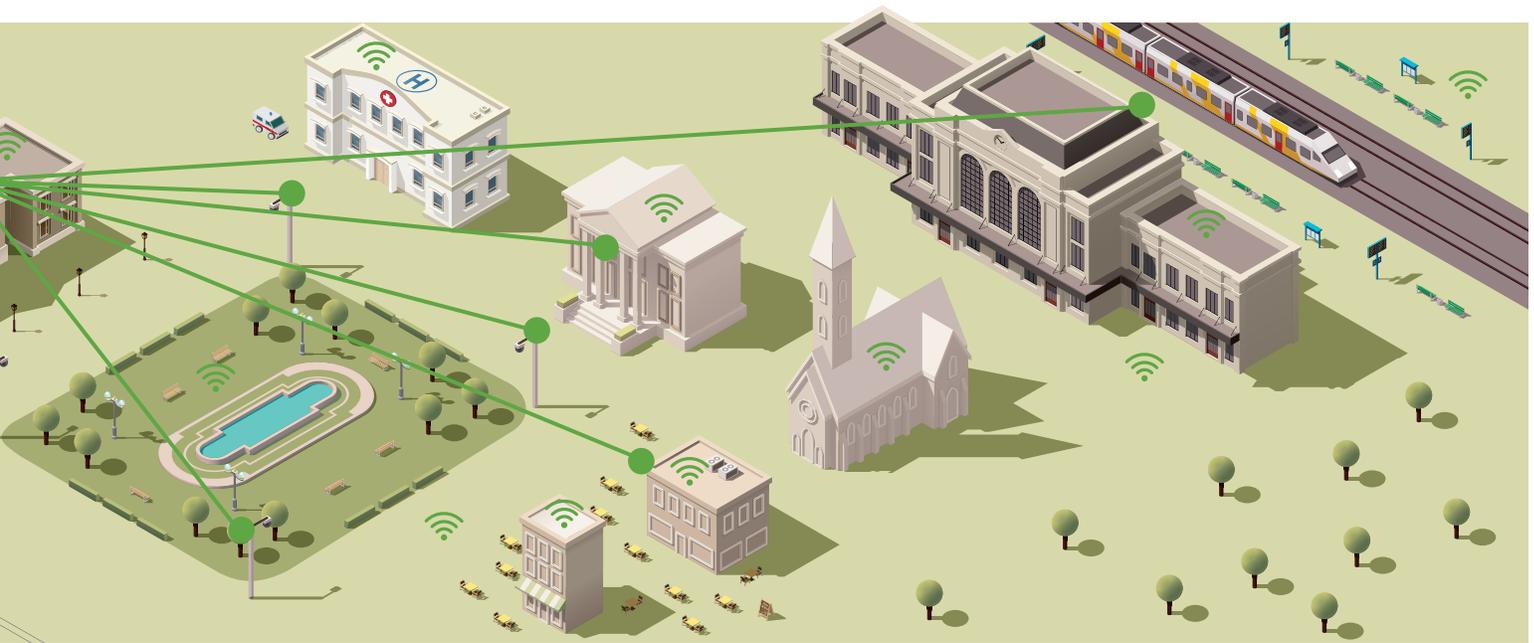
Asset monitoring

Employee safety

Cambium Networks Technology Ensures High Throughput in Noisy Environments

- **Beam forming and beam steering** – isolates the signal from ambient noise to maximize throughput
- **Frequency Re-Use** – maximizes the use of available frequency across thousands of users
- **Intelligent Filtering** – automatically suppresses noise in adjacent channels to improve signal quality
- **High Capacity Multipoint** - allows for multiple nodes to connect to a single master radio





Proven Solutions

- The **City of Chicago** deployed a wireless video surveillance network that has operated in harsh weather conditions for years.
- In **Budapest, Hungary**, officials were seeking to improve the analog video surveillance system installed a decade ago. They deployed a wireless IP-based solution that was designed, installed, and operational in 90 days.
- **Hillsborough County Sheriff's Office (HCSO) in Tampa, Florida**, deployed video surveillance with a PMP 450 communications infrastructure to improve public safety.
- **The City of Palm Beach, Florida**, deployed wireless broadband for city-wide video surveillance communications infrastructure.

Complete Connectivity Solutions from Cambium Networks

- **Wide-Area Point-to-Multipoint**
 - Licensed, unlicensed, and public safety frequencies
- **High capacity long range Point-to-Point backhaul**
 - Licensed microwave and unlicensed backhaul
- **Single pane of glass network management**
 - Bird's eye view of field network
 - Rapid on-boarding and provisioning of new nodes
 - End-to-end performance and fault management
 - Centralized password management and firmware updates

The Cambium Difference

- **Reliability** – Deploy wireless broadband with confidence that it will work right the first time and continue to work 24/7 over the long haul.
- **Scalability** – Connect thousands of individual locations with a synchronized network that enables RF frequencies to be re-used throughout the network to provide the highest level of connectivity in the least total amount of spectrum.
- **Total Cost of Ownership** – Minimize the total cost of network ownership with one IP-based wireless network comprised of licensed and unlicensed backhaul and access components that can be rapidly deployed and perform reliably with minimum maintenance cost.
- **Planning Software** – End-to-end network design using LINKPlanner for prediction of capacity and availability.
- **Sustainability** – Solutions designed to operate for years from a supplier with a proven track record of stability and sustainable product evolution.
- **Spectral Efficiency** – Provide the highest amount of information transfer in the least amount of scarce spectrum with industry award winning throughput.



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 in wireless access is demonstrated in the millions of radios deployed in thousands of networks that benefit communities around the world. Team members also contribute to social responsibility activities to serve the communities in which they live. 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.

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