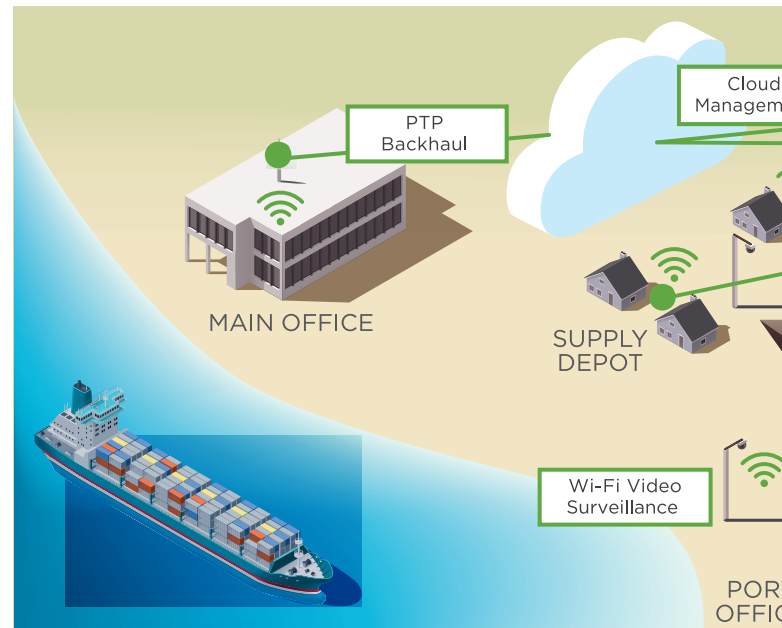




Wireless Connectivity Solutions for Mining

MINING OPERATIONS NEED RELIABLE CONNECTIVITY THAT PERFORMS IN REMOTE AREAS AND HARSH ENVIRONMENTS. Down time is waste. Communications need to support productivity and safety throughout the operation. With rapidly deployable, high-speed communications, mining operations can be coordinated from the mine site, supply depots, operation centers, and transportation hubs.

Wireless technology from Cambium Networks integrates video, voice, email, and data traffic alongside SCADA data from sensors, and control points – on a single all-IP network featuring centralized end-to-end administration.



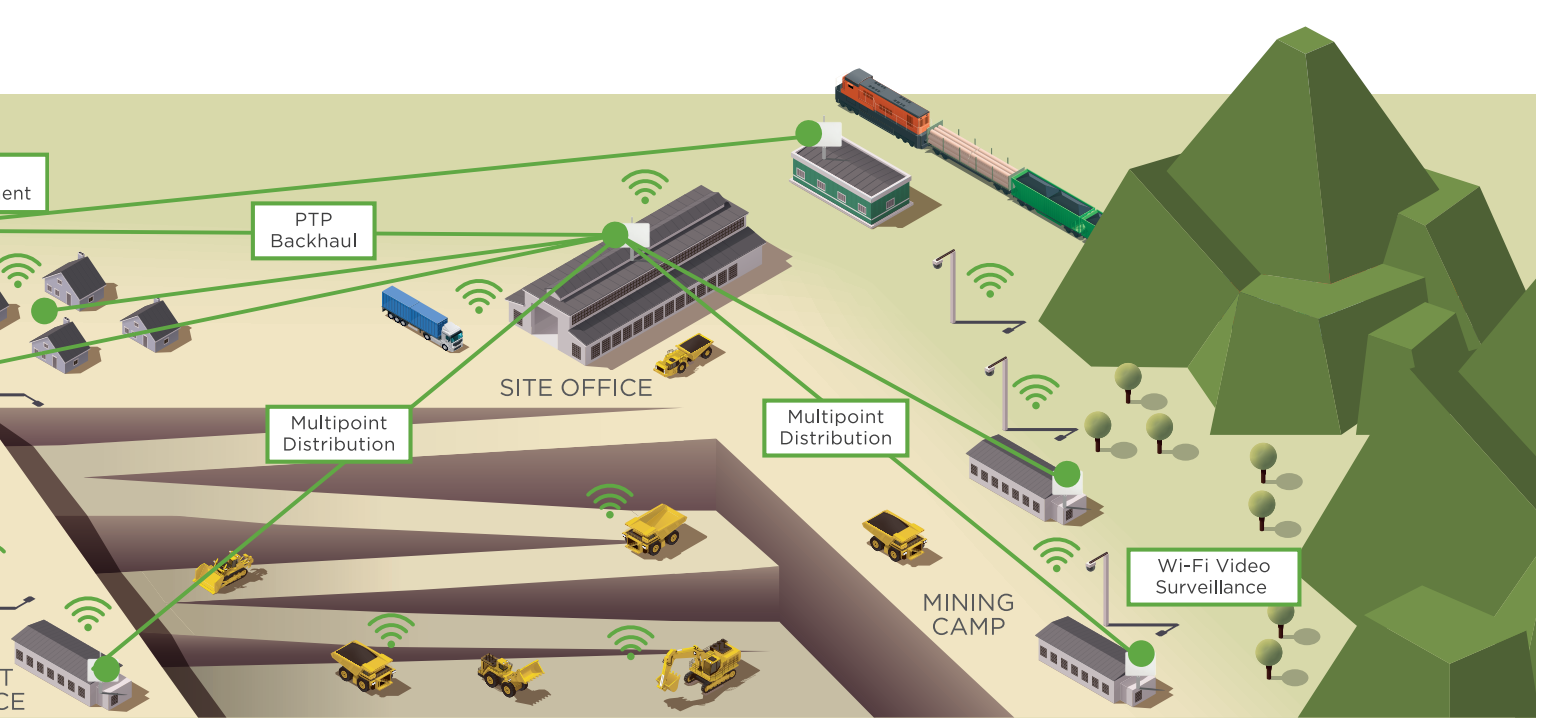
Our wireless platforms are field proven in the following applications:

- **Transport for SCADA and Process Control data**
- **Effective remote management**
- **Temporary communications**
- **ATEX / HAZLOC certification**
- **Backhaul for Mesh and LTE to support autonomous mining**
- **Video surveillance and voice services**
- **Remote facility connectivity**
- **Indoor and outdoor 802.11ac wave 2 Wi-Fi at offices, camps, and field locations**

Benefits

- **Complete Coverage** – Connect the entire operation and reach remote locations with long range backhaul, wide area distribution, and indoor and outdoor Wi-Fi.
- **Capacity** – Deploy narrowband solutions to connect field sensors and controls, aggregate data with broadband, and connect control facilities.
- **Secure** – With positive authentication and AES 128/256-bit encryption, communications are secure.
- **Scalable** – Efficient use of spectrum to build densely packed networks.
- **Reliable** – With more than 7 million modules deployed in 150 countries, our solutions are proven in any environment for almost any application.





Proven Solutions in Mining

- **Wide-area narrowband connectivity** for SCADA communications including: video surveillance, injection layer communications, instrumentation data & Wi-Fi
 - 220 MHz • 450 MHz • 700 MHz • 900 MHz
- **Wide-area point-to-multipoint** for video surveillance and backhaul
 - Video Surveillance for physical security
 - SCADA master aggregation and backhaul
- **High capacity** licensed microwave
- **Long range point-to-point** wireless backhaul
- **Ruggedized Wi-Fi access** for remote field operations
 - Indoor 802.11ac wave 2 Wi-Fi
 - Outdoor hotspot and Wi-Fi networks
- **Single pane of glass** network management
 - Bird's-eye view of field area 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.
- **Rugged** – Field proven in harsh environments and ATEX/HAZLOC certified.
- **Planning Software** – end-to-end network design using LINKPlanner.
- **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.
- **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.
- **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 broadband solutions that connect the unconnected. Through its extensive portfolio of reliable, scalable and secure narrowband SCADA, 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; government 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.

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