Cambium Networks™

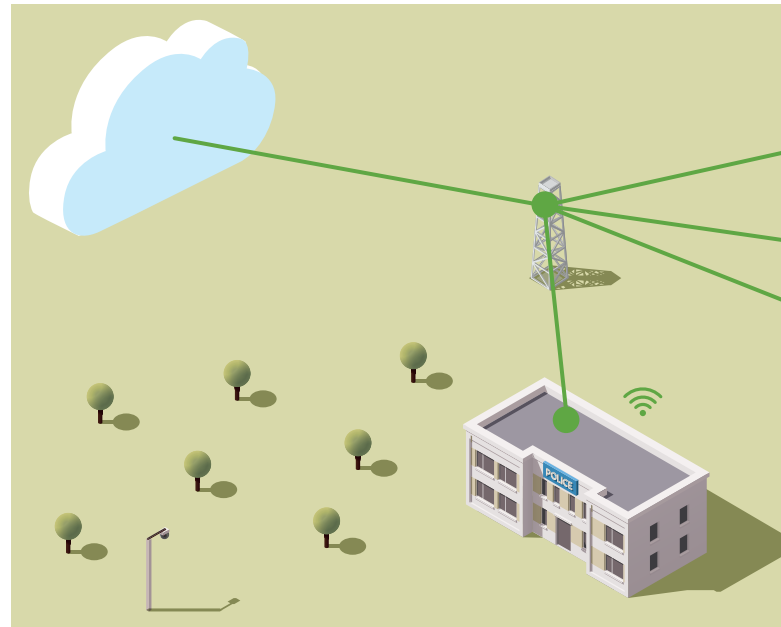# Wireless Connectivity Solutions for Disaster Recovery

WHEN DISASTER STRIKES, FIRST RESPONDERS NEED RELIABLE COMMUNICATIONS TO COORDINATE RESCUE AND RECOVERY EFFORTS. They need access to video, voice and data applications to provide assistance, and surveillance and monitoring capabilities to monitor the integrity of critical infrastructure. Aid workers need access to records and other vital information. Families need to connect with loved ones.

Communications need to be rapidly deployed, secure, and rugged to withstand harsh environments. Wireless broadband provides the high-speed connectivity needed, and provides a proven solution that can be deployed at a fraction of the cost and time of fiber or wired connectivity.

Connectivity solutions from Cambium Networks are hurricane proven to provide reliable video, voice and data connectivity that can be rapidly deployed to make a difference in the event of a disaster.

Emergency Applications:

- Enterprise indoor and outdoor Wi-Fi
- Emergency Wi-Fi
- Fire station and first responder connectivity
- Infrastructure monitoring and control
- Public Wi-Fi connectivity
- Traffic control and digital signage
- Video surveillance

Benefits:

Reliable – With millions of wireless broadband modules deployed around the world, Cambium Networks solutions are proven to work in any climate or application.

Rapidly Deployable - Wireless solutions provide can be installed in a matter of hours and provide an attractive return on investment when compared with leased lines, fiber, copper, or other solutions.

High Capacity – Wireless networks can be designed to support simultaneous downloading of streaming video, uploading of video surveillance information, conducting voice calls, and sharing data.

Secure – The network can use specified frequencies for public safety and access networks with password authentication and encrypted data.

Cambium Networks Technology Ensures High Throughput in Noisy Environments

- **Adaptive Modulation** – automatically senses available spectrum and adjusts to achieve high throughput
- **Beam forming and beam steering** – isolates the signal from ambient noise to maximize throughput
- **Intelligent Filtering** – automatically blocks out noise to improve signal quality
- **Rugged Hardware** – IP 67 housings protect against solar radiation, hurricane speed winds, dust and water ingress, and harsh temperatures
- **Zero Touch Wi-Fi Provisioning** – improves the speed and accuracy of provisioning access points

Proven Solutions

Ruggedized Wi-Fi access for field connectivity

- Outdoor hotspot and Wi-Fi networks

Wide-Area licensed and unlicensed narrowband connectivity for SCADA process control and monitoring including: Wide-area process control and monitoring of IIoT critical infrastructure.

- SCADA/Serial/IP/General Purpose I/O
- Multiple frequencies (220/450/700/900 MHz)

Wide-Area Point-to-Multipoint for video surveillance and backhaul

- Video surveillance for physical security
- SCADA master aggregation and backhaul

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.

- **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.

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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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