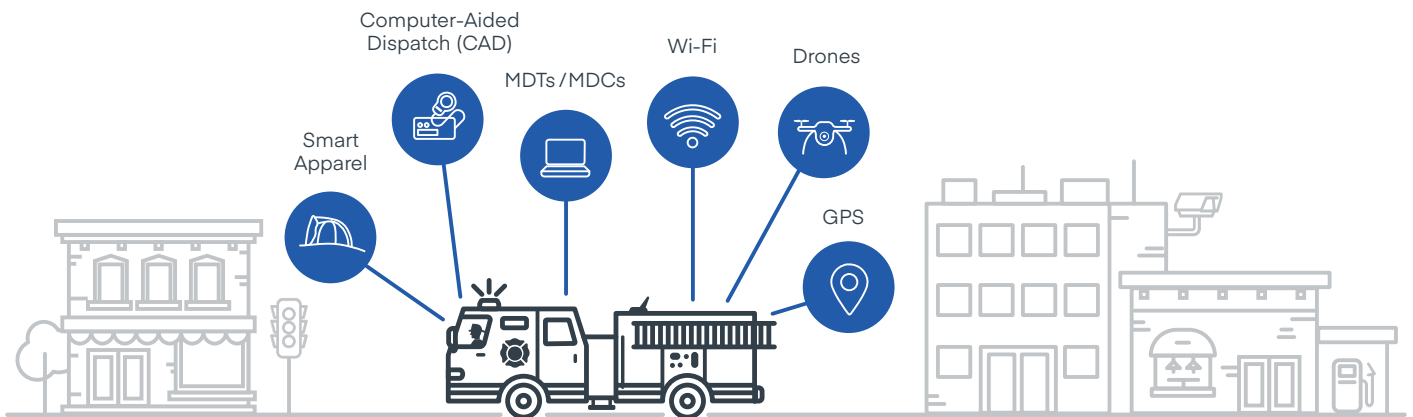


Highly Reliable Cellular in Fire Vehicles Drives Mission-Critical Communications

Rugged 5G and LTE solutions for secure, centrally managed connectivity

Fire and rescue departments rely on cellular connections in all of their vehicles today — engines, ladders, and rescue/special operations. Whether rushing to the scene of an accident or a fire, department vehicles and personnel rely on technology for computer-aided dispatch, smart apparel for firefighter safety, and much more. 5G and LTE ensure reliable mission-critical communications that help save lives.



Solving Networking Challenges for Fire Departments

Inconsistent connectivity

Unreliable cellular connectivity slows response time while making the utilization of real-time actionable data difficult, if not impossible. With a growing number of devices and critical applications in fire vehicles requiring always-on connectivity, network drop-offs are disastrous.

Dual-modem cellular routers that support public safety networks enable active connections to multiple cellular carriers, as well as automatic failover and fallback, which greatly improves network uptime.

Extreme conditions

More than other first responders, firefighters, and their equipment face extreme temperatures, physical shock, and moisture. As a result, any hardware deployed in fire vehicles should be specially designed to face the rigors of emergency services while still performing flawlessly. On-board cellular routers should be highly ruggedized.

Management of widespread vehicles

Regardless of a department's employee count or geographic size, with vehicles spread across a population-dense city or large rural area, IT and fleet management teams don't have time for costly on-site troubleshooting or configuration changes. Cloud-based network management systems allow administrators to monitor and control cellular performance and information security from anywhere.

Wireless Networking Solution Checklist for Public Safety Vehicles

Cloud Management Services for Centralized Control of All Routers	
Point-and-click policy adjustments across the fleet (security, data usage, and captive portal)	●
Dashboards for security, health, mapping, and application visibility	●
Location tracking and cellular health mapping	●
Ruggedized Routers	
5G modems that support public safety networks	●
Supports dual modems and multiple carriers per modem	●
Active GPS and simple integration with AVL / telematics software	●
Dual-band, dual-concurrent Wi-Fi 5 (2.4/5.0 GHz) for high availability	●
Supports up to 100 Wi-Fi clients	●
Wi-Fi as WAN for active video offload and access	●
Security	
Full security including IPS/IDS and application-aware zone firewall	●
Zero trust security through no-default network-level access	●

Cradlepoint's NetCloud Service for 5G and LTE Routers

Cradlepoint NetCloud Service for Mobile provides the enterprise capabilities that fire departments need to keep their wide-ranging on-board connected technologies and gear always connected. Delivered through purpose-built ruggedized routers, NetCloud makes it easy to monitor and manage connection reliability and performance — as well as data security — for an entire fleet through one web-based platform.

Learn more at [cradlepoint.com/fire](https://www.cradlepoint.com/fire)

