



Case Study: Fire Truck

Sunshine Fire Protection District successfully maintains a mission critical communication through in-vehicle network

Executive Summary

By testing and deploying Billion M500 – 4G/LTE Industrial/ In-Vehicle Multi-Carrier Router, Sunshine Fire Protection District, successfully maintain a mission critical communication in-vehicle network that is interoperable, sustainable and especially during times of great stress.

The Customer



Sunshine Fire Protection District has served mountain community's wild-land urban interface for the past 47 years. Their service is provided by 20 volunteer firefighters, ERM/EMT and fire support staff, two fire stations and 4 fire trucks. Their focus on fire protection, prevention and education as well as medical responsiveness has fostered a strong bond with the neighborhoods they serve. Since their inception, Sunshine Fire Protection District has been on the look out for first-class training and technology to best fit their mission and serve their community.

Challenges

In response to national security concerns, the MCTRICA act was passed in 2012, establishing FirstNet. FirstNet purpose is to establish, operate, and maintain a public safety network that is interoperable, especially during times of great stress. To fulfill these objectives, Sunshine Fire Protection District needed to become a part of a Radio Access Network that will connect back to the core of FirstNet.

Unreliable connectivity can be a major issue in mountain communities, making SFPD need for a dependable secure connection with its first responders out in the field all the more important. SFPD chose to partner with Trilogy LTE Services, a company that specializes in providing secure connections for America's Rural LTE operators, and Billion Electric to realize this need.

How Billion Product Helped

Sunshine Fire Protection District chose the Billion M500 for each of their 4 vehicles. The Billion M500 was engineered specifically for emergency personnel out in the field by accelerating response times and providing urgent updates. Billion M500's rugged solid design comes with a roof-mount SX antenna that ensures high quality – high bandwidth transmission from command center to volunteer. Billion M500's proven interoperability has multiple interface options for connecting, provides web access to databases across agencies and provides mapping/GIS and location tracking.

Results

Billion M500's connection with Trilogy LTE Services provided Sunshine Fire Protection district with the link it needed to FirstNet core. Billion and Trilogy's LTE enhanced the emergency responder's procedures by carrying high-data-rate services to the rural surrounding areas. The new communication link supports digital imaging, video streaming, voice, large data download, and other abilities which cannot be maintained over a traditional narrowband network.

Conclusion

The durability and extensive coverage provided by Billion and Trilogy LTE Services ensures the Sunshine Fire Protection District with the mission critical capabilities for a safe community. Billion M500 demonstrated its excellent reputation backed by 10 years of continued stability, extended range and performance that surpasses the need for first responders.



Billion M500

4G/LTE Industrial/In-Vehicle Multi-Carrier Router