AirLink XR90 for Mining Applications
USING PRIVATE NETWORKS TO MAXIMIZE SAFETY, EFFICIENCY, AND PRODUCTIVITY
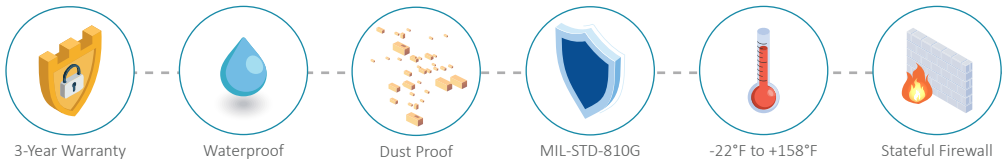
Meet Marcus

Marcus is the technology manager for a large mining corporation. The corporation is continually looking for ways to improve mining safety, increase efficiency and raise productivity. Recently he's been investigating the benefits of using private networks and 5G hardware to ensure the continued success and expansion of their smart mining operations by increasing the reliability and security of their communications infrastructure.

The Challenge | Leveraging Private Networks and 5G for Smart Mining Operations

Marcus is currently integrating new technologies to increase mine safety and productivity. This includes leveraging autonomous mining vehicles for hauling and dumping which will decrease both costs and accidents. These autonomous vehicles will require 5G, low latency connectivity within a private network. The network he uses need to have multiple channels for control and communications. Marcus plans to use these networks for real-time equipment monitoring to reduce costs and is considering using remote drilling further increase productivity and safety.

The Solution | Hardened XR90 Routers and LTMWG944 Antennas

The AirLink XR90 is a ruggedized dust and waterproofed design purpose built for challenging environments. With dual 5G radios and always-on connectivity, the AirLink XR90 routers can deliver supercharged performance including unmatched connectivity speeds and low latency. With AirLink Cognitive Wireless, the mining operations can route critical traffic over the best network channel available. And with the AirLink XR90's internal hardening, it delivers ultimate security to protect against malicious attacks which could bring down the mine. Combined with ultra-wide band ruggedized antennas from Mobile Mark, boosts to signal strength and Wi-Fi coverage will be greater than ever before.

3-Year Warranty	Waterproof	Dust Proof	MIL-STD-810G	-22°F to +158°F	Stateful Firewall

The Results | Increased Safety, Operational Efficiency, and Productivity

With XR90 routers, LTMWG antennas, and secure robust 5G private networks in place, Marcus and his mining corporation can leverage the capabilities of autonomous mining vehicles and automated drilling equipment to increase safety, productivity, and efficiency. They will gain the ability to continuously monitor equipment and mine conditions in real-time, further lowering costs while increasing safety.

The Team | Device Provisioning, Activation and Installation Services

For the last 25 years USAT has provided expert IoT connectivity solutions for mining and drilling operations. Our team supports every aspect of business-critical mobile connectivity projects. The cellular communications experts we employ configure, provision, kit and ship your devices hot and ready for immediate use. And when you utilize MCA on-site installation services, our technicians ensure your devices are functioning securely, reliably, and at peak performance.

Fleet Manager · 4G / 5G LTE · LTMWG944 · MRM3 · AirLink XR90 · Dual WiFi · Dual SIM · Dual Radio · Up to 4.14 Gbps · ALMS · 5G Ready

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