

XEdge for the Mining Industry

Reliable Connectivity. Safer Operations. Smarter Mines.



Mining operations rely on private 5G, WiFi, and IoT to connect autonomous vehicles, worker safety devices, and operational sensors.

In pits, underground tunnels, or remote locations, downtime or blind spots can mean lost productivity and serious safety risks.

XEdge delivers rugged, automated, multi-network monitoring to keep mining networks reliable, safe, and future-ready.

Key Advantages of XEdge in Mining

Rugged and Mine- Ready	IP54 dust/water resistance, vibration/shock tested, wide temperature range (-20°C to +55°C). Built for pits, tunnels, and harsh conditions.
Autonomous and Remote	Fully automated 24/7 SLA monitoring and on-demand testing. Remote firmware updates and test scheduling eliminate costly site visits.
Multi-Operator and Multi-Tech Visibility	Up to four operators monitored simultaneously across 4G, 5G SA/NSA, and WiFi. Critical where private networks mix with public coverage.
Private 5G and IoT Ready	Validates connectivity for autonomous trucks, drilling machines, and worker safety sensors. Supports 5G slicing for mission-critical comms.
Worker Safety Assurance	Continuous monitoring of latency, coverage, and throughput with real-time alarms in safety zones (underground or open-pit).
Application Monitoring	Tests real-time performance of mining apps: fleet management, push-to-talk radios, remote video feeds, environmental sensors.
Roadmap: Predictive Maintenance (ML-based)	Advanced analytics to forecast failures and keep IoT and network systems running seamlessly.
Two Sensor Options	XEdge: Multi-carrier, high-capacity unit for comprehensive monitoring.
	XEdge-Lite: Compact, cost-efficient sensor for dense or distributed placement.
Stress Tests and Acceptance	Execute stress tests during network acceptance to ensure mining networks meet SLAs before production.
Walk Tests and Drive Tests	Automated reporting for tunnels, haul roads, and pit coverage mapping with geo-fenced analytics.

WHY MINING LEADERS CHOOSE XEDGE

How We Can Help

- Lower OPEX: Reduce truck rolls, engineer visits, and manual tests
- Safer Operations: Ensure workers and machines are always connected
- Smarter Networks: Integration with mine IT/OT dashboards via open APIs
- Future-Proof: Supports 4G, 5G
- WiFi today and predictive analytics tomorrow

XEdge: Keeping Mines Connected, Productive, and Safe











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