Enabling Critical Mining Connectivity with Iridium Certus®

Connecting mining assets in remote environments is an increasingly critical operational need for organizations worldwide. The Iridium Certus service enables rugged, rapidly deployable, mobile voice and data solutions that enhance mining operations. With the industry's fastest L-Band speeds, Iridium offers on-the-move solutions for data collection, asset management, location tracking, safety compliance, and real-time voice communications.

Enhanced Mining Operations

Early-stage Exploration: Rapidly deployable voice and data terminals enable site surveys and field reports for remote workers.

Site Construction: Ensure safe and secure operations during site construction through asset telemetry, team check-ins, and alert capabilities.

Remote Sensor Connectivity: Real-time sensor connectivity reduces operational downtime and increases asset security.

Redundancy:
- L-Band connectivity ensures extremely reliable performance
- Back-Up Systems: Built-in failover of critical systems
- Monitoring / Telemetry Capabilities: Real-time telemetry capabilities and ability to remotely control assets

Iridium® Network Capabilities

Truly Global Coverage: The Iridium network is comprised of 66 cross-linked satellites with multiple overlapping spot beams to deliver reliable communications anywhere in the world.

L-Band Connectivity: For critical systems enabling remote operations in harsh environments, L-Band provides weather-resilient and reliable connectivity.

Blockage Resiliency: Iridium's cross-linked satellites provide multiple look angles, allowing the signal to reach open pit mines and mountainous terrains.

Reliable & Cost-effective Solutions: Critical operations require reliable solutions. Iridium works with a global network of Value-Added Manufacturers to ensure our solutions are reliable, rapidly deployable, and cost-effective.

iridium®

Iridium Mining Solutions

Iridium Certus Products	MissionLINK™ Terminals	MissionLINK™ 700 Antenna	MissionLINK™ 200 Antenna
Operating Speed	N/A	Up to 704 Kbps	Up to 176 Kbps
Dimensions (H x W x D) (Dia x H)	58 x 305 x 229 mm -	- 356 x 102 mm	- 125 x 140 mm
Weight	3400 g	2800 g	<700 g
Power	**Option 1:** 10–32 VDC **Option 2:** AC/DC Supply with 12 VDC 65-watt Nominal/120-watt Max	Directly Powered by the Terminal at 24 VDC	Directly Powered by the Terminal at 24 VDC
IP Rating	IP31	IP66	IP67
Operating Temperature	-40 to +55° C	-40 to +55° C	-40 to +55° C
Mechanical Vibration & Shock	**MissionLINK 700** • MIL-STD-810G • Test Method 514.6 • Procedure 1, Category 4 • Annex C MIL-STD-810G • Test Method 516.6 • Procedure IV **MissionLINK 200** • MIL-STD-810G w/Change • Test Method 514.7 • Category 4	• MIL-STD-810G • Test Method 514.6 • Procedure 1 • Category 20 • Annex D MIL-STD-810G • Test Method 516.6 • Procedure IV	• MIL-STD-810G w/Change 1 • Test Method 514.7 • Category 4
Front Connectors	RJ-45 LAN (3) Class 2 PoE RJ-45 WAN (1) for Cellular, VSAT & Other IP Connections, RJ-14 POTS (2 Independent Phone Lines)		
Rear Connectors	DC Power Input (10–32V) MIL-STD-1275D, DC Power Input (+12V Regulated), GPIO (RS-232, +12V Out, Emergency, Radio Gateway, Discrete I/O), TNC — RF Connection to Antenna, Wi-Fi — Reverse SMA, SIM Card Slot		

Key Features

• Iridium Certus® 700: (352 Kbps Up / 704 Kbps Down) / Iridium Certus® 200: (176 Kbps Up / Down)

• Truly Global Satellite Coverage and Low Latency for Critical Data and Voice Communications

• Built-in Radio over IP Gateway Bridging Satellite and Terrestrial Networks

• Easy Interoperability with Terrestrial Cellular along with Built-in Preferred Routing Switch

• Iridium Certus 700: Supports Up to (3) Concurrent High-quality Voice Lines