



Critical Mining Connectivity for Safer & More Efficient Operations

For mining organizations and professionals in the world's most remote regions, Iridium® products and services offer on-the-move solutions for data collection, asset management, location tracking, safety compliance, and real-time voice communications.

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.



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



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



Reliable & Cost-effective Solutions: Iridium works with a global network of Value-Added Manufacturers to provide products and services you can depend upon.

Real-time Control

Iridium solutions help your operation increase efficiencies, streamline reporting, improve sustainability, and provide early warning systems for staff safety.

Connecting to the Site

With speed capabilities ranging from 22 Kbps to 704 Kbps, Iridium Certus® is the only truly global mobile midband and broadband satellite service on the market. It enables rugged, rapidly deployable mobile voice and data solutions for mining organizations.



Iridium Certus 700 offers the fastest L-Band speeds available and extends the use of mobile networks into remote areas, eliminating the need to deploy expensive ground-based infrastructure.



Iridium Certus 100 allows flexible communications in lightweight, power-efficient products. Iridium Connected® solutions for this service class are ideal for Supervisory Control and Data Acquisition (SCADA) or machine-to-machine (M2M).



Iridium Certus 200 offers the same proven capability and reliability in smaller, more cost-effective terminals.

Connecting to the Site (continued)



Sustainability: Iridium's primary or backhaul satellite communications provide the foundational technology needed to minimize environmental impacts and help ensure that mines achieve your company's Environmental, Social, and Governance (ESG) compliance goals.



Ruggedized Equipment: L-Band connectivity is capable of handling extreme temperatures and weather conditions, while rugged, solid-state antennas withstand shock, vibration, dirt and dust.



Efficient & Safe Operations: Iridium satellite communications enable data, voice, and video-supporting applications that are essential to efficient and safe mining operations.



Real-Time Visibility & Control: With multiple speeds available, miners can take advantage of real-time analytics and operate more efficiently than ever before.



Autonomous Mining: Iridium satellites provide off-the-grid connections, high-resolution imagery, and precise geo-positioning services to aid autonomous mining.

Connecting Things

Iridium Short Burst Data[®] (SBD[®]) and Iridium Messaging TransportSM (IMTSM) services connect equipment and personnel in locations where basic land-based connectivity for communication and monitoring is unreliable or nonexistent.



All-in-One Solutions: From equipment health to shipment tracking, Iridium Connected IoT solutions allow remote asset management during any phase of the mining process.



Cloud Native Technology: Iridium CloudConnect enables alignment with industry standard protocols, cloud-powered platforms and best-in-class server-side solutions.



Sensors:

- Alert mine operators when stability or air quality issues are identified.
- Assess equipment performance wirelessly using condition-based maintenance (CBM) software to help reduce failure risk and improve fuel consumption by managing the tire pressure of mining vehicles.

Connecting People

Communication between mining personnel is critical for work optimization and safety.



Iridium Satellite Phones: provide reliable and real-time communications between workers and support staff.



Iridium Connected narrowband **smart personal protective equipment** (PPE) monitors worker health and warns of environmental hazards, while continuously uploading data to central software systems for collection and analysis.



Iridium PTT: Iridium Push-to-Talk provides critical group communications to facilitate worker safety and productivity.

Whether connecting sites, things or people, Iridium delivers high-availability communication solutions that are critical for the mining industry. Learn more about Iridium's mining solutions at <https://www.iridium.com/markets/mining/>

To learn more about Iridium's Mining Solutions:



Interested? Email us at: sales@iridium.com