



# Iridium Certus® 100

## FACT SHEET

*Low Power. Low Latency. High Performance.*

Iridium Certus is an award-winning, multi-service platform enabled by the truly global Iridium® constellation. With speeds up to 88 Kbps, Iridium Certus 100 offers global coverage and reliable connectivity in small, low power equipment.

### The Iridium Network

The unique mesh architecture of the Iridium constellation provides inherent advantages in performance over other mobile satellite service providers:

- ▶ The Iridium network is comprised of 66 cross-linked satellites with multiple overlapping spot beams to deliver reliable communications anywhere in the world.
- ▶ With satellites in constant orbit around the planet, Iridium's network can reach Iridium Connected® devices anywhere on the planet, regardless of location or terrain.
- ▶ Iridium satellites operate in Low-Earth Orbit, which provides a shorter transmission path than GEO and MEO networks and allows for lower latency and less signal attenuation.
- ▶ Iridium connections are delivered through an L-band frequency, making them resilient to adverse weather conditions.

### A Robust Constellation

Iridium completed a multi-year constellation upgrade in early 2019, replacing all its satellites, updating the supporting ground infrastructure, and enabling powerful Iridium Certus services. A leader in the satellite communications space, Iridium products and services are ideally suited for critical communications for individuals, companies, and governments around the world.

### Small & Capable Equipment

The Iridium Certus 100 service offers Iridium's unique capabilities in lightweight, cost-effective, and power efficient products developed by Iridium's industry-leading manufacturing and development partners. Iridium Connected® solutions for this service class are ideal for Supervisory Control and Data Acquisition (SCADA), connected boat applications, aircraft tracking, and personal communications. Whether you are a lone worker, a ship crew member, a pilot, or an adventurer, Iridium Certus 100 keeps you connected when and where it is needed most.

### Partner Ecosystem

Through an expansive, value-added partner network, Iridium is advancing the way companies, organizations, governments, and individuals communicate every day. Iridium Certus manufacturers use our modules to develop hundreds of innovative Iridium Connected solutions, and Iridium Certus service providers bring communications and connectivity through these solutions to users all around the world.

### Key Advantages

- ▶ Two (2) Simultaneous High Quality Voice Lines
- ▶ IP Data Speeds Up to 88 Kbps
- ▶ Low-Latency, Low Power, Small Form Factor Equipment
- ▶ Lightweight, Omni-Directional Antenna with no Moving Parts
- ▶ Iridium Messaging Transport®

## Example Markets & Applications

Maritime	Land Mobile
<b>Markets</b> <ul style="list-style-type: none"><li>▶ Fisheries</li><li>▶ Coastal Shipping</li><li>▶ Workboat</li><li>▶ Leisure</li><li>▶ Autonomous Watercraft</li><li>▶ Military / Research Government</li></ul> <b>Applications</b> <ul style="list-style-type: none"><li>▶ IoT Connected Ship</li><li>▶ Regulatory Compliance</li><li>▶ Email, Messaging</li><li>▶ Light Web Browsing</li><li>▶ Electronic Chart Display &amp; Information System (ECDIS)</li><li>▶ Smartphone Access</li><li>▶ LRIT, SSAS, GMDSS*</li></ul>	<b>Markets</b> <ul style="list-style-type: none"><li>▶ Enterprise: Construction, Energy, Utilities, Mining</li><li>▶ Public Safety</li></ul> <b>Applications</b> <ul style="list-style-type: none"><li>▶ VSAT Out-of-Band Management</li><li>▶ Remote Monitoring</li><li>▶ Text-Oriented Web Browsing</li><li>▶ Standard Email with Attachments</li><li>▶ Enhanced Mobile App Connectivity</li></ul>
Aviation	Global Governments
<b>Markets</b> <ul style="list-style-type: none"><li>▶ Unmanned &amp; Autonomous Drones</li><li>▶ General Aviation</li><li>▶ Rotorcraft &amp; Fixed Wing Aircraft</li></ul> <b>Applications</b> <ul style="list-style-type: none"><li>▶ FANS***</li><li>▶ EFB Services</li><li>▶ Graphical Weather</li></ul>	<b>Markets</b> <ul style="list-style-type: none"><li>▶ U.S Government</li><li>▶ State &amp; Local Governments</li><li>▶ Humanitarian &amp; NGOs</li><li>▶ Militaries</li><li>▶ Research</li></ul> <b>Applications</b> <ul style="list-style-type: none"><li>▶ Video</li><li>▶ Command &amp; Control</li><li>▶ Encrypted Voice</li><li>▶ Secure Telephony</li><li>▶ Tactical PLI</li><li>▶ Telemetry</li></ul>

\*GMDSS is currently available through Iridium narrowband services. GMDSS through Iridium Certus is a future capability.

\*\*\*VAM product dependent.

### Only One Communications Company Connects the Entire Globe

Iridium is a satellite communications company that offers voice and data connectivity anywhere in the world. Powered by a unique constellation of 66 cross-linked Low-Earth Orbit (LEO) satellites, the Iridium® network enables global connections between people, organizations, and assets, in real time. Through an expansive partner network of over 500 international technology companies, Iridium is advancing the way companies, organizations, governments, and individuals communicate every day.

[www.iridium.com](http://www.iridium.com)