

Iridium Certus for Land

Reliable, mobile communications



For organizations operating in remote areas around the world, reliable, easy-to-use mobile connectivity is of the utmost importance. Iridium Certus sets the new standard for remote communications and connectivity for enterprises, governments, and individuals that want to extend their use of mobile networks into remote areas without having to deploy ground-based infrastructure or expensive terminals.

Iridium Certus is a service platform powered by the Iridium® NEXT constellation. With comprehensive coverage and a range of speeds up to 704 Kbps, it delivers global, reliable, enterprise-grade services while redefining the capabilities of mobile satellite communications.

Iridium Certus is built for mobility, with the fastest L-band broadband coverage on the planet, where personnel and vehicles can keep in contact in remote areas without setting up complex network access. Iridium Certus is integrated with Internet, Cellular, Land Mobile Radio, and location-based applications, providing an ecosystem of industry-leading terminals and service solutions.

ONE PLATFORM, MANY CAPABILITIES

- Single platform for three high-definition, configurable voice lines, IP data speeds starting from 22 Kbps to 704 Kbps
- Streaming IP service up to 256 Kbps (when available), Short Burst Data service (SBD), prepaid services, and safety services
- Supports over-the-top smartphone applications for seamless messaging and push-to-talk (PTT) services
- Multi-service connectivity for business operations, Internet of Things (IoT) applications, crew welfare and mobile operations
- Acts as an ideal emergency and back-up service
- Can complement land VSAT terminals as an emergency failover

ROBUST AND FLEXIBLE

- Redundant design: Iridium's network of 66 Low-Earth Orbit (LEO) satellites is a fully-meshed global canopy with high-speed cross-links designed to deliver uniform coverage and high-data speed from pole to pole
- Robust, lightweight and easy-to-install terminal without moving parts
- Omni-directional antenna that automatically connects with the closest Iridium satellite
- Specially designed, competitive price plans allow full flexibility to meet any usage requirements



Catered for Service Providers

Simplify billing and service management with Speedcast's next generation billing platform, specifically designed for the needs of the satellite communications industry.

IRIDIUM CERTUS LAND TERMINAL

Iridium Certus 700

Iridium Certus 700 delivers L-band connectivity up to 704 kbps, enhancing mobility applications, IoT services, communications and personnel safety.



Thales MissionLINK™ 700

MissionLink 700 comes with an intuitive, user-friendly interface and can be quickly integrated into existing vehicles. It also includes built-in upgradeability to extend the life of your investment and ensure peak speed and performance.

MissionLINK

| | |
|------------|--|
| Antenna | Size: 35.6 cm diameter x 10.2 cm height |
| | Weight: 3.2 kg |
| Terminal | Size: 30.5 cm x 22.9 cm x 7.6 cm |
| | Weight: 3.4 kg |
| Connectors | Front: RJ-45 LAN (3) Class 2 PoE |
| | RJ-45 WAN (1) for cellular connection |
| | RJ-14 POTS |
| | DC Power Input (10-32V) MIL-STD-1275D |
| | GPIO (RS-232, +12V out, DISTRESS, Radio Gateway, GPIO) |
| | TNC Connector, RF connection to Antenna |
| | Wi-Fi reverse SMA |

Iridium Certus 200

With upload and download speeds up to 176 Kbps, Iridium Certus 200 delivers reliable, global coverage through small, lightweight, low-power equipment. From high-quality voice calling on-the-move to internet, messaging and critical IoT applications, Iridium Certus 200 offers an affordable broadband connectivity and it's the ideal solution as a Speedcast's VSAT companion or backup.



Thales MissionLINK™ 200

MissionLink 200 features a low-gain omnidirectional antenna that enables fast upload and download speeds to cover any land communications need from safety services, tracking and location services, out-of-band management to operational reporting and data transfers.

Thales MissionLINK™ 200*

| | |
|----------|--|
| Antenna | Size: 125mm Diameter x 140mm height |
| | Weight: Less than 700g |
| Terminal | IP Data: 176 Kbps (up) / 176 Kbps (down) |
| | 3 x Voice Channels (HQ) |
| | Same dependable BDE as the MissionLINK 700 |
| | 3 x PoE Ethernet Ports |
| | 1 x RJ14 Port (POTS) |
| | Integrated Wi-Fi antenna |
| | WAN port for easy integration of an external router (Wi-Fi, 4G/LTE etc) |
| | Lightweight and compact omnidirectional antenna with no moving parts - IP67 rating |

**Specifications are not final and are subject to change.*

Iridium Certus 100 (Coming soon)

Iridium Certus 100 is a pervasive and flexible solution designed for sensors, asset utilization IoT/M2M monitoring tools, communications and media sharing platform, with speed up to 88 Kbps.

SkyLink 5100



Interfaces

- A. 100/1000 Ethernet with POE
- B. USB with voice capabilities
- C. 6-Pin IO & IO Expansion
- D. Wide Range Power (10V-32VDC) with ignition sense
- E. Ethernet, USB, RS232 options, and wide-range power supply

Antenna Options



Eternal
fixed-mount
antenna kit



Eternal
vehicle mount
antenna kit

Dual mode data gateway shown with optional communications companion (left) and LTE extender antenna

SPECIFICATIONS

Physical

- Size (dual mode data gateway):
5 x 8 x 1.25 in (127 x 203 x 32 mm)
- Size (communications companion, optional):
5 x 8 x 1.25 in
(127 x 203 x 32 mm)
- Weight (per unit): 1 lb (0.45 kg)
- Power source: vehicle ignition, Power over Ethernet,
AC/DC adapter
- Input power: 10 - 34 VDC
- Output power: 18W peak power, 7W nominal
- Operational temperature: -40°C - +70°C
- Long life backup battery (optional)
- IP67 compliant for outdoor installation
- Mounting options: vertical, horizontal, remote
antenna

Connectivity

- Iridium Certus 100 services – 88 kbps DL / 22 kbps UL
- Cellular LTE, 2G, 3G
- Least cost routing
- GNSS positioning
- Wi-Fi
- Bluetooth
- Local firewall
- 2x Iridium voice lines
- PTT (app-based)
- Hosted applications
- Configuration, status, and usage monitoring

Use Cases



Remote Sites



Humanitarian and NGO



Lone Workers



Vehicle



AgriTech



VSAT Backup /Companion

PERFECT FOR A VARIETY OF APPLICATIONS

IoT and M2M

- Personnel safety
- Vehicle and people location
- Vehicle and people tracking
- Voice communications
- Telemedicine connectivity
- Remote diagnostics, camera and monitoring
- Autonomous vehicles and machines
- Equipment telematics
- Environmental measuring and monitoring
- Work management

Remote sites and offices

- Emergency back-up communications
- Internet access
- Email & social media
- Office PBX
- Plain old telephone systems (POTS) phone integration
- Up to three simultaneous voice calls

SPEEDCAST VALUE ADDED SERVICES

Speedcast has designed a range of services to optimize Iridium Certus connectivity. From monitoring connections and devices to technical support access, Speedcast offers customers fully-tailored solutions.

Speedcast IoT Solutions

Speedcast offers custom-fit IoT solutions that are technology-agnostic. With a broad portfolio of devices and networks across satellite, cellular and other shorter-range wireless technologies, we provide maximum flexibility and fit for complex customer requirements.

Cybersecurity

Speedcast Cybersecurity solutions combine the best of content filtering, lightweight synchronization designed for remotely connected sites, monitoring and reporting consoles, and distributed access to ensure customer sites operate safely and securely.

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