Iridium Certus for Maritime

Reliable communications at sea

speedcast

With Iridium Certus℠, maritime organizations can rely on seamless connectivity to fuel their daily business operations, safety services, IoT applications and crew welfare. Built for the maritime market, Iridium Certus has the fastest L-band broadband coverage on the planet and guarantees comprehensive coverage no matter your location, nearby terrain or weather.

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

When paired with Speedcast's Maritime and Offshore VSAT, Iridium Certus delivers an ideal hybrid solution that combines L-band with Speedcast's global mobility network. Iridium Certus keeps operations running, providing guaranteed back-up voice and data services. Out-of-band management (OBM) tools allow Speedcast to quickly troubleshoot any VSAT issues to ensure smooth operations.

ONE PLATFORM, MANY CAPABILITIES

- A single platform for three high-quality, 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), push-to-talk (PTT), prepaid services, and safety services
- Optimized for all aspects of shipboard operations, from simple email to complex onboard sensor management systems, Iridium Certus provides connectivity for crew welfare, messaging, social media and phone calls.
- Iridium Certus is certified to offer the Global Maritime Distress Safety System (GMDSS) — *coming soon*

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
- 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
- Secondary data flows: ability to distinguish multiple data flows over Certus and dedicate data flows for certain applications

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.

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IRIDIUM CERTUS MARITIME TERMINALS

Iridium Certus 700

Iridium Certus 700 delivers L-band connectivity up to 704 kbps, enhancing ship business applications, IoT services and connected ship communications.

Intellian C700

The C700 is ideal for both vessel operations and crew welfare services. It offers features such as three high-quality voice lines, a built-In 3G/LET WAN port, soft PABX, and is GMDSS-ready. The industry leading 3-year warranty policy and global service partners provide customers with reassurance and dependable communications.

Intellian C700	
Above Deck Unit	**Dimensions: 370 x 270mm (14.5in x 11.0in)**
	Weight: 7.3 kg (16 ib)
Below Deck Unit	**Dimensions: 280 x 183.5 x 41mm (11in x 7.2in x 1.45in)**
	Weight: 1.2 kg (stand-alone type) (2.6 lb)
Terminal	**Voice: Three simultaneous HD voice lines**
	IP Data (Background) Uplink: Up to 352 Kbps/ Downlink: Up to 704 Kbps
	IP Streaming Uplink/Downlink (when available): Up to 256 Kbps

VesseLINK™ by Thales

VesseLINK™ by Thales comes with an intuitive, user-friendly interface and can be quickly integrated into existing vessels or new fleets. It also includes built-in upgradeability to extend the life of your investment and ensure peak speedand performance.

VesseLINK	
Antenna	**Size: 12 in x 9 in x 3 in (30.5 cm x 22.9 cm x 7.6 cm)**
	Weight: 7.5 lb (3.4 kg)
Terminal	**Data: IP data sessions up to 704 Kbps(down)/ 352 Kbps (up), Streaming up to 256 Kbps (future)**
	Three high-quality voice lines
	Location tracking

Cobham SAILOR 4300

Compact and easy to install, the Cobham SAILOR 4300 terminal is available in bulkhead and 19-inch rackmount configuration. SAILOR 4300 offers speeds suitable for data-heavy applications, including: videoconferencing, multi-user Internet/VPN, IoT and telemedicine.

Cobham SAILOR 4300	
Antenna	**Size: 38 cm diameter x 23 cm height**
	Weight: 7 kg
	One cable connection to BDU
Terminal	**Bulkhead and 19" rack versions**
	Telephony: Three independent voice lines
	Data: Supports Iridium Certus 700 - Up to 176/704 Kbps

Iridium Certus 100 *(Coming soon)*

Iridium Certus 100 is a pervasive and flexible solution designed for smaller vessels and regulatory services with speed up to 88 kbps.

LarsThrane LT-4100
Coming Soon

Lars Thrane LT-4100	
Antenna	Dimensions: 182.0 x 162.0 mm (7.16 x 6.39 in)
	Weight: 1.39 kg (3.05 lbs)
	Operating Temperature: -40°C to +55°C
Control Unit	Weight: 658 g (1.45 lbs)
	Dimensions: 224.0 x 120.0 x 70.0 mm (8.82 x 4.72 x 2.76 in)
	Temperature, operational: -15°C to +55°C (+5°F to +131°F)
	IP rating, dust and water: IP32
Terminal	Up to 500m Coaxial Cable
	2 x Voice Channels (HQ)
	IP Data: 22 Kbps (up) / 88 Kbps (down)
	Lightweight antenna with no moving parts
	GMDSS-ready

Cobham SAILOR 4100
Coming Soon

Cobham SAILOR 4100	
Terminal	IP Data: 22 Kbps (up) / 88 Kbps (down)
	2 x Voice Channels (HQ)
	Lightweight, omnidirectional antenna with no moving parts
	Further terminal specs to be supplied at a later stage
Expected Launch	End of Q4 2021 / Q1 2022

Iridium Certus 200

From high-quality voice calling while on the move to an internet connection, messaging and critical connected ship applications, Iridium Certus 200 offers an affordable broadband connectivity solution anywhere in the world, especially when used as a Speedcast's VSAT companion or backup.

Thales VesseLink™ 200

Thales VesseLink™ 200	
Antenna	Dimensions: 5 inches diameter x 6.7 inches height (12.5 cm diameter x 17 cm height)
	Weight: 0.7 kg
	Operating Temperature: -40°C to +55°C
Terminal	IP Data: 176 Kbps (up) / 176 Kbps (down)
	3 x Voice Channels (HQ)
	Same dependable BDE as the VesseLINK 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

Lars Thrane LT-4200
Coming Soon

Lars Thrane LT-4200	
Antenna	New LT-4230 Antenna Unit
	Operating Temperature: -40°C to +55°C
Terminal	New LT-4215 Below Deck Unit
	IP Data: 176 Kbps (up) / 176 Kbps (down)
	3 x Voice Channels (HQ)
	Lightweight antenna with no moving parts
	Up to 500m Coaxial Cable
	GMDSS-ready
	Further terminal specs to be supplied at a later stage
Expected Launch	Q1 2022

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Use Cases

Commercial Shipping	Commercial Fishing	Coastal Shipping	Workboat	Leisure Boat	VSAT Backup /Companion

PERFECT FOR A VARIETY OF APPLICATIONS

Captain and Crew Communications

- Email, Messaging and Web Browsing
- Weather Forecast
- Photo Transfer
- Multiple High Quality Voice Lines
- Remote Diagnostics, Engine and Fuel Monitoring
- Hybrid Cellular / VSAT System
- Smartphone Access

Safety Communications

- Safety Alerting
- Safety Calling
- Theft Prevention
- GMDSS*

Connected Ship

- High use Internet of Things (IoT) or Machine-to-Machine (M2M)
- Vessel tracking

Narrowband GMDSS service began in 2020; Iridium Certus GMDSS service is expected at a future date.

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.

SpeedMail+

SpeedMail+ is a secure, cloud-based maritime email system that delivers email and file transfer services between ship and shore.

SIGMA Services Suite

Speedcast's powerful VSAT and MSS network management devices for the maritime sector provide automated management of multiple WAN links and facilitate network segmentation between business critical safety, security and communications operations, and crew communications and entertainment.

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.

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.