THALES

> Reliable satellite communications for maritime operations

> 100% global coverage, including polar regions

> Dependable connectivity ship-to-shore and shore-to-ship

> Essential communications for captains, officers and crew members

> Small, lightweight equipment that is easy to install

> Administrative control for optimization and fleet management

‹COMMERCIAL SHIPPING›

Thales VesseLINK™ on Iridium Certus℠

Operating on the state of the art Iridium NEXT Network, Thales VesseLINK provides critical global coverage for maritime operations and reliability that serves the at-sea communications needs of crew members, vessels and fleets.

> **With annual shipping tonnage on the rise and new routes opening across the globe, the demand for reliable maritime communications is greater than ever. Thales VesseLINK keeps you connected while you navigate new routes, sustain safe and efficient operations, and ensure the competitiveness of your fleet.**

Thales VesseLINK™

Delivering critical communications that keep commercial shipping vessels safe, connected and productive at sea

Thales VesseLINK gives your critical maritime operation global communications coverage. It is the communications solution you can depend on at sea, anytime, anywhere. Whether you operate a large fleet or a single vessel, this solution is designed to meet your needs for safety and connectivity through highly reliable, mobile and essential voice, text and web communications.

Thales VesseLINK utilizes Iridium Certus℠ broadband services with a network of 66 satellites covering 100% of the globe, including deep oceans and poles. This robust network provides highly reliable, mobile and essential voice, text and web communications for captain and crew.

> **Global Coverage:** Even for new polar and northern passage shipping routes. The solution provides connectivity in any kind of weather, including rain

> **Location Tracking & Sensor Monitoring:** General purpose input/outputs can tie into sensors for temperature, light, humidity, alarms, global keep-alives, and a variety of Internet-connected items and equipment (IoT)

> **Safety & Security:** The solution features location tracking, up to 3 dedicated voice channels, and is telemedicine capable. Equipment may be concealed in roll-on/roll-off kits for lifeboat integration

> **Real-Time Weather:** With enhanced weather reporting, crews can optimize route planning and locate favorable conditions

> Lowest latency rates in the industry

THE CONNECTED CREW

For crew well-being and safety, the ability to stay connected with family and loved ones is critical. With Thales VesseLINK, crew members can call home, send and receive emails and engage on social networks at sea.

Thales provides:

> Wifi-ready, creating the ability to use smart phones and other personal devices

> The ability of crew members to use their own apps

> Administrative control for captains and fleet managers, allowing for efficiency and cost control

> VSAT backup solution

With crew benefits and administrative control, Thales enables an unparalleled connectivity experience that ensure an efficient, sustained flow of data.

> **Easy installation: Small, lightweight equipment is simple to deploy and easy to integrate.**

VesseLINK 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 future-proof your investment and ensure peak speed and performance. **No matter where your maritime operation takes you, Thales delivers.**

MULTI-SERVICES PLATFORM

- ➤ IP data sessions up to 700kbps (down)/352kbps (up)
- ➤ Streaming up to 256kbps
- ➤ 3 standard & high quality VOIP voice lines
- ➤ Location tracking
- ➤ PTT ready

SOLUTION-READY FEATURES

- ➤ Easy to use interface, all functionality available at distance
- ➤ Ruggedized Android tethered handset
- ➤ IP67 rated single cable ADU Antenna with FB fixing patterns
- ➤ IP52 BDU Terminal, rack or hull mounted
- ➤ Least cost routing for 4G/LTE or VSAT backup
- ➤ Embedded 802.11b/g Wi-Fi access point
- ➤ Multiple user capability, up to 5 connected devices
- ➤ Application enabled functionality for Android and iOS

THE SOLUTION
VesseLINK on Iridium

TECHNICAL PARAMETERS

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)
Power	12 VDC input, 11A max (7A avg.), includes powering external VesseLINK High Gain Antenna
Connectors	Front: RJ-45 LAN (3) Class 2 PoE RJ-45 WAN (1) for cellular connection RJ-14 POTS Rear: DC Power Input (10-32V) MIL-STD-1275D DC Power Input, +12V Regulated GPIO (RS-232, +12V out, DISTRESS, Radio Gateway, GPIO) TNC Connector, RF connection to Antenna Wi-Fi reverse SMA SIM slot
Mechanical Vibration and Shock	MIL-STD-810G, Test Method 514.6, Proc. 1, Category 20, Annex D MIL-STD-810G, Test Method 516.6, Proc. IV

ANTENNA SPECIFICATIONS

High-gain, electronic phased array antenna to enable the fastest upload and download speeds to cover any vessel communications need from safety services to operational reporting and logging

Size	14 in dia. x 9 in h (35.6 cm dia. x 22.9 cm h)
Weight	7 lb (3.2 kg)
Power	Directly powered by the terminal at 24 VDC
Operating Temperature	-30 to +55 degrees C
Mechanical Vibration and Shock	IEC 60945, Section 8.7.1 and 8.7.2 MIL-STD-810G, Test Method 516.6, Proc. IV
Salt-Fog/Corrosion Standard	IEC 60945, Section 8.8