THALES

www.thalesgroup.com/LINKsatcom

- Reliable satellite communications for at sea operations
- Providing 100% global coverage you can depend on
- Enabling essential communications for critical operations and enhanced safety features
- Simple, adaptable and robust to meet the unique challenges of maritime environments
- Delivering data and voice communications with low latency

<MARINE OPERATIONS>

VesseLINK™

Delivering critical communications that keep vessels connected and safe at sea

<MARINE OPERATIONS>

VesseLINK

VesseLINK utilizing Iridium Certus℠ gives your critical marine operation global communications coverage. It is the communications solution to depend on for essential communications whenever and wherever you are at sea. Whether you operate a large fleet or a single vessel, this commercialized, military-grade solution is designed to meet your unique challenges through a simple, adaptable and robust design.

VesseLINK on Iridium operates using Iridium Certus℠ broadband services over a network of 66 satellites that cover 100% of the globe, including deep oceans and the poles. The solution utilizes this robust network service to provide highly reliable, mobile and essential voice, text and web communications.

MULTI-SERVICES PLATFORM

- IP data sessions up to 700kbps (down) /352kbps (up)
- Streaming up to 256kbps (future)
- 3 high quality voice lines
- Location tracking

ADDITIONAL FEATURES

- Easy to use interface, all functionality available at a distance
- Ruggedized Android tethered handset
- IP67 rated single cable Antenna
- Rack or hull mounted installation
- 4G LTE ready, softphone application for iOS and Android
- Embedded 802.1 1b/g Wi-Fi access point
- Multiple user capability
- Application enabled functionality for Android and iOS

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

- Non-U.S. Government sales are subject to U.S. Government approval.
- Specifications are subject to change without notice.

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Certus 700 Hardware Comparison

Intellian C700 vs Cobham 4300 vs Thales VesseLINK

Comparison Table	Intellian C700	Cobham SAILOR 4300	Thales VesseLINK
Standard Data Speed	Up: 352 kbps	Up: 176 kbps	Up: 352 kbps
	Down: 704 kbps	Down: 704 kbps	Down: 704 kbps
Streaming Data Speed *(when available - TBC)*	Up to 256 kbps	Up to 128 kbps	Up to 256 kbps
Voice Calls	3 x Standard/HQ	3 x Standard/HQ	3 x Standard/HQ
Weight	7.3 kg (ADU) / 1.2 kg (BDU)	8 kg (ADU) / 3.2 kg (BDU)	2.8 kg (ADU) / 3.4 kg (BDU)
Operating Temp. range	-25 to +55°C	-25 to +55°C	-60 to +55°C
IP Rating	IP56 (ADU) / IP31 (BDU)	IPX6 (ADU) / IP31 (BDU)	IP67 (ADU) / IP31 (BDU)
Location tracking (IRIS)	No (No)	No (No)	Yes (Yes)
Firewall	Yes	No	Yes
Analogue Interface	2 (via single RJ14)	None	2 (via single RJ14)
LAN Interfaces	4 RJ45, 2 PoE Class 2.	4 RJ45, No PoE	3 RJ45, Class 2 PoE
WAN Interface	1 RJ45 (1 out of 4 RJ 45, re-configurable)	None	1 RJ45 (fixed port)
GPIO (General-purpose input/output)	10 lines	1 I/O	15 pin (RS-232, +12V out, DISTRESS, Radio Gateway, GPIO)
Power over Ethernet (PoE)	Yes	No	Yes
VoIP Codec support	G711, G722, G723, G729, GSM	G 711	G 711
Soft PBX	16 x SIP + 2 x POTS (18 in total)	No	3 in / 3 out (mix of SIP & POTS); 'unlimited' number of telephone lines (extns)
Wi-Fi built-in	Yes	No	Yes
BCX location	ADU	ADU	BDU
Antenna Class	H2	H1	H2
Antenna Type	Conformal Patch (12 element)	Conformal Patch (7 element)	Planar Helix
ADU BDU Cable	100 m (LMR-400); longer lengths achievable. NOTE: maximum 13.5 dB loss at 900 MHz and 1.3 Ohm DC loop)	100 m (RG214/U) NOTE: maximum 10 dB loss at 80 MHz and 1.8 Ohm DC loop)	Up to 100 m (LMR-900) NOTE: maximum 10 dB loss at 1625 MHz)
Antenna mount – These mounts can *potentially** be re-used	• FBB 500 versions B and later (outside 4 mounting holes in antenna base) • FleetOne, FBB 150, and FBB 250 (inside 4 mounting holes of antenna base)	• Not compatible with other bolt pattens such as FBB or FleetOne.	• FBB 500 versions B and later (outside 4 mounting holes in antenna base) • FleetOne, FBB 150, and FBB 250 (inside 4 mounting holes of antenna base)
Antenna cables – These cables can *potentially** be re-used	• FBB Power Cables	• FBB Power Cables	• FBB Power Cables
** dependant on quality, condition, length and type of existing mounts/cables; no guarantee can be made they are re-useable, and the responsibility would lie with the end user and/or the installer.*			
Warranty	• Standard: 3 years • Extended: up to 2 years extended (1-year increments) • Combined max.: up to 5 years.	• Standard: 3 years • Extended: up to 2 years extended (1-year increments) • Combined max.: up to 5 years.	• Standard: 2 years • Extended: up to 3 years extended (1-year increments); • Combined max.: up to 5 years.