

- 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 CertusSM 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 CertusSM 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 802.11b/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.

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 <i>(when available - TBC)</i>	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 <i>potentially</i> * be re-used	<ul style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> Not compatible with other bolt patterns such as FBB or FleetOne. 	<ul style="list-style-type: none"> 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 <i>potentially</i> * be re-used	<ul style="list-style-type: none"> FBB Power Cables 	<ul style="list-style-type: none"> FBB Power Cables 	<ul style="list-style-type: none"> FBB Power Cables
<p><i>* 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.</i></p>			
Warranty	<ul style="list-style-type: none"> Standard: 3 years Extended: up to 2 years extended (1-year increments) Combined max.: up to 5 years. 	<ul style="list-style-type: none"> Standard: 3 years Extended: up to 2 years extended (1-year increments) Combined max.: up to 5 years. 	<ul style="list-style-type: none"> Standard: 2 years Extended: up to 3 years extended (1-year increments); Combined max.: up to 5 years.