SAILOR® 1000 XTR GX-R2

Your future-proof Ka-band system for Inmarsat Global Xpress® - available in 4.5W and 9W



Product Sheet



Unlock the power to optimise delivery and performance of broadband for business applications, vessel operations and crew welfare, in any maritime environment with the new SAILOR 1000 XTR GX-R2; the most advanced 3-axis stabilized antenna system for the Inmarsat Global Xpress® satellite network.

A FUTURE-PROOF GX-R2 PLATFORM

Integrating the best of SAILOR VSAT Technology and SAILOR XTR™, the new cutting-edge technology platform at the heart of all next generation SAILOR antenna systems, SAILOR 1000 XTR GX-R2 represents the state-of-the-art for leveraging the full capabilities of Inmarsat Global Xpress® today, and tomorrow.

The SAILOR 1000 XTR GX-R2's advanced RF package with new Ka-band transceiver (XCVR) and feed horn supports dual-polarisation and wide-band Ka, making it ready to take advantage of Inmarsat's future GX satellite constellations. It also features sophisticated Tracking Receiver

technology to ensure fast satellite acquisition at start-up and after blockages caused by e.g. atmospheric conditions or vessel superstructure.

FEATURE RICH, QUICK & EASY TO DEPLOY

SAILOR 1000 XTR GX-R2 utilises sophisticated Rapid Deployment Technology to reduce installation complexity and cost. This is a combination of mechanical and software elements such as a true one-cable solution, Dynamic Motor Brakes, the XTR™ Installation Wizard enabling quick and trouble-free deployments.

Technical features include the new XTR Antenna System Control Module located inside the Above Deck Unit (ADU) with a lightning-fast processor, enabling new modular star network component topology, deep selfdiagnostics capabilities and extended, highly secure remote access contribute to optimise every aspect of operation and management of SAILOR XTR™ antennas. Further developments include IoT protocols providing on-demand antenna health and performance data, and unique 'in-dome' Ethernet for simple integration of third-party devices such as cellular.

ONE PLATFORM FOR ALL ANTENNAS

- Rapid deployment technology true one-cable, software-controlled solution
- Best-in-class RF performance end-users get more value from their investment
- Powerful new controller and motors improved performance on all levels
- Built-in flexibility ready to deliver now and on future Inmarsat GX constellations
 Dual antenna operation reliable automatic switching between two antennas
- New secure software platform protects against cyber security risks
- New lighter pedestal design simplicity improves mechanical performance
- Easy servicing and operation enable higher QoS and business continuity

Subject to change without further notice.

SAILOR® 1000 XTR GX-R2



FCI			

Reflector size	103 cm / 40.6 in.
Type approvals	Inmarsat
Certification	Compliant with CE (Maritime), ETSI, FCC
System power supply range	100-240 VAC, 50-60 Hz
Antenna system power	4.5W: 135W typ. 185W max.
consumption	9.0W: 180W typ. 215W max.

FREQUENCY BAND: Ka-Band (Inmarsat GX-R2)

Rx	17.7 to 20.2 GHz
Tx	27.5 to 30.0 GHz

ANTENNA CABLE

BDU to ADU cable	Coax cable (50 Ω) for Rx, Tx, MoCA and DC
	power on a single cable
ADU cable connector	Female N-Connector (50 Ω)
BDU cable connector	Female N-Connector (50 Ω)

ADU Cable connector	remale N-Connector (50 Ω)
BDU cable connector	Female N-Connector (50 Ω)
SAILOR XTR ABOVE DECK UNIT	(ADU)
Antenna type, pedestal	3-axis stabilized tracking antenna with
	integrated GNSS supporting GPS, GLONASS and
	Beidou
Radome top material	Glass-fiber reinforced plastic
Antenna type, reflector system	Reflector/sub-reflector, ring focus
Transmit Gain	48.3 dBi typ. @ 29.5 GHz (incl. radome)
Receive Gain	43.9 dBi typ. @ 19.7 GHz (incl. radome)
System G/T	20.6 dB/K typ. @ 19.7 GHz, at ≥10° elevation
	and clear sky (incl. radome)
Ka-band transceiver output power	4.5 Watt or 9 Watt
EIRP	4.5 W: ≥54.8 dBW (incl. radome)
	9.0 W: ≥57.8 dBW (incl. radome)
LNB	Ka-band transceiver ("XCVR")
Polarisation	Circular (RHCP, LHCP), controlled for Rx and Tx
Tracking Receiver	Internal "all band/modulation type" including
	e.g. power, DVB-S2X, GSC and modem RSSI
Satellite acquisition	Automatic - with Gyro/GPS Compass input. Sup
	port for gyro free operation.
Elevation Range	-20° to +120°
Cross Elevation	-37° to +37°
Azimuth range	Unlimited (rotary joint)
Ship motion, angular	Roll ±30° (6 sec), Pitch ±15° (5 sec),
	Yaw ±10° (8 sec)
Ship, turning rate and acceleration	15°/S and 15°/S2
ADU motion, linear	Linear accelerations ±2.5 g max any direction
Vibration, operational	Sine: EN60945 (8.7.2), DNV 2.4A, MIL-
	STD-167-1 (5.1.3.3.5). Random: Maritime
Vibration, survival	Sine: EN60945 (8.7.2) dwell, MIL-STD-167-1
	(5.1.3.3.5) dwell. Random: EN60721-3-6 class
	6M3 mod. by EN60721-4-6. Shock: EN60721-3-
	6 class 6M3 mod. by EN60721-4-6.
	MIL-STD-810F 516.5 (Proc. II)
Temperature (ambient)	Operational: -25°C to +55°C / -13°F to +131°F
. ,	Storage: -40°C to +85°C / -40°F to +185°F
With SAILOR Smart heater option:	Operational: -55°C to +55°C / -67°F to +131°F
Humidity	95%, condensing
Rain / IP class	EN60945 Exposed / IPx6
Wind	80 knots operational, 110 knots survival
Ice, survival	25 mm / 1 in.
Solar radiation	1120 W/m2 to MIL-STD-810F 505.4
Compass safe distance	1.5 m / 59 in. to IEC EN 60945
Maintenance, scheduled	None
Maintenance, unscheduled	All modules, motor, RF parts and belts are
	replaceable through service hatch
Built In Tests	Power On Self-Test, Person Activated Self-Test
	and Continuous Monitoring w. error logging
Dimensions	Height: H 150 cm / 58.9 in.
	Diameter: Ø 130 cm / 51.3 in.
	2.0

105 kg / 231 lb

SAILOR XTR BELOW-DECK UNIT (BI	DU
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Weight 3.6 kg / 8 lb Temperature (ambient) Operational: -25°C to +55°C / -13°F to +131° Storage: -40°C to +85°C / -40°F to +185°F Humidity EN60945 Protected, 95% (non-condensing) IP class IP30 Compass safe distance 30cm / 12 in. to IEC EN 60945 Interfaces 1x N-Connector for antenna RF Cable (50 Ω) with automatic cable loss compensation 2 x F-Connectors (75 Ω) for Rx & Tx to VSAT modem 1 x Ethernet Data (VSAT Modem Control) 2 x Ethernet (User) 1 x Ethernet (Remote access) 1 x Ethernet for Service and Configuration 1 x RJ-45, RS-422 Data (VSAT Modem Control) 1 x RJ-45, RS-232 Data (VSAT Modem Control) 1 x RJ-45, NMEA 0183 (RS-422 / RS-232) for Gyro/GPS Compass and external GPS input 1 x RJ-45, 4 x General purpose GPIO, Tx mut and Rx lock. 1 x Universal AC power input 1 x Grounding bolt User interface Webserver, OLED display (red), 5 pushbutton 3 discrete indicator LEDs and On/Off switch, Mute and Modem Lock indicator Temperature control Built-in fan No transmit zones Programmable, 8 zones with azimuth and elevat		
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Temperature (ambient) Operational: -25°C to +55°C / -13°F to +131 Storage: -40°C to +85°C / -40°F to +185°F Humidity EN60945 Protected, 95% (non-condensing) IP class IP30 Compass safe distance 30cm / 12 in. to IEC EN 60945 Interfaces 1x N-Connector for antenna RF Cable (50 Ω) with automatic cable loss compensation 2 x F-Connectors (75 Ω) for Rx & Tx to VSAT modem 1 x Ethernet Data (VSAT Modem Control) 2 x Ethernet (User) 1 x Ethernet (Remote access) 1 x Ethernet for Service and Configuration 1 x RJ-45, RS-422 Data (VSAT Modem Control 1 x RJ-45, RS-232 Data (VSAT Modem Control 1 x RJ-45, NMEA 0183 (RS-422 / RS-232) for Gyro/GPS Compass and external GPS inpu 1 x RJ-45, 4 x General purpose GPIO, Tx mut and Rx lock. 1 x Universal AC power input 1 x Grounding bolt User interface Webserver, OLED display (red), 5 pushbutton 3 discrete indicator LEDs and On/Off switch, Mute and Modem Lock indicator Temperature control Built-in fan Programmable, 8 zones with azimuth and elevat Real-time blocking map recorder		HxWxD: 4.4 x 48 x 33 cm / 1.75 x 19 x 13 in.
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1 x Grounding bolt User interface Webserver, OLED display (red), 5 pushbutton 3 discrete indicator LEDs and On/Off switch, Mute and Modem Lock indicator Temperature control Built-in fan No transmit zones Programmable, 8 zones with azimuth and elevat Real-time blocking map recorder		and Rx lock.
User interface Webserver, OLED display (red), 5 pushbutton 3 discrete indicator LEDs and On/Off switch, Mute and Modem Lock indicator Temperature control Built-in fan No transmit zones Programmable, 8 zones with azimuth and elevat Real-time blocking map recorder		1 x Universal AC power input
3 discrete indicator LEDs and On/Off switch, Mute and Modem Lock indicator Temperature control Built-in fan No transmit zones Programmable, 8 zones with azimuth and elevat Real-time blocking map recorder		1 x Grounding bolt
Mute and Modem Lock indicator Temperature control Built-in fan No transmit zones Programmable, 8 zones with azimuth and elevat Real-time blocking map recorder	User interface	Webserver, OLED display (red), 5 pushbuttons,
Temperature control Built-in fan No transmit zones Programmable, 8 zones with azimuth and elevat Real-time blocking map recorder		3 discrete indicator LEDs and On/Off switch, TX
No transmit zones Programmable, 8 zones with azimuth and elevat Real-time blocking map recorder		Mute and Modem Lock indicator
Real-time blocking map recorder	Temperature control	Built-in fan
5 1	No transmit zones	Programmable, 8 zones with azimuth and elevation
Remote management and IoT HTTPS, SSH, Telnet, SNMP Traps, Syslog, CLI		Real-time blocking map recorder
	Remote management and IoT	HTTPS, SSH, Telnet, SNMP Traps, Syslog, CLI,
Diagnostic, Statistic, RESTful, MQTT		Diagnostic, Statistic, RESTful, MQTT
VCAT MODEM CURPORT	VCAT MODELA CURROTT	
VSAT MODEM SUPPORT Modern protocols Conoris OpenAMID OpenPMID SNMD		Conoris OpenAMID OpenBMID CNMD

Modem protocols	Generic, OpenAMIP, OpenBMIP, SNMP
Modem hardware	iDirect SMB3315 Satellite Modem Board

7523A - SAILOR GX-R2 MODEM UNIT (GMU2) Dimensions 1U 19 in. Rack M

Dimensions	1U 19 in. Rack Mount
	HxWxD: 4.4 x 48 x 33 cm / 1.75 x 19 x 13 in.
Weight	2.7 kg / 6 lb
Humidity	IEC EN60945 Protected, 95% (non-condensing)
IP class	IP30
Compass safe distance	40 cm / 16 in. to IEC EN 60945
Interfaces	2 x SMA-connectors (75 Ω) for Rx + Tx to BDU
	1 x SMA-conncector (RX2, not used)
	1 x SMA-conncector (Ref., not used)
	2 x power (DC loop back)
	4 x RJ-45 Ethernet: modem control + user data
	1 x RJ-45 + D89: RS-422 (modem control)
	1 x RJ-45 + D89: RS-232 Data (modem control)
	1 x Universal AC power input
Grounding	1 x grounding bolt
Input power	100-240 VAC, 50-60 Hz, 90 W peak, 30 W typical
Modem interfaces	LAN, RS-422, RS-232C
User interface	Web MMI, On/Off switch + power/status LEDs
Temperature control	Built-in fan

For further information please contact: satcom.maritime@cobhamsatcom.com

Weight