

SAILOR 800 VSAT

The SAILOR 800 VSAT is a standardized high-performance 3-axis stabilized Kuband antenna system with an 83 cm reflector dish. It provides the same or better radio performance than a typical 1m antenna.



Quick and Easy

Just like the larger, top-selling SAILOR 900 VSAT, it is quick and easy to deploy – but with a 20% smaller form factor SAILOR 800 VSAT can be used on vessels that otherwise would not consider VSAT because of the size and weight of suitable antennas.

A Top Performer

The focus of the new SAILOR 800 VSAT is on RF performance, G/T, which is >18 dB/K – a value equal to or higher than most other 1m maritime VSAT antennae performance claims – yet it's much smaller and lighter. This performance makes the new 83cm antenna suitable for vessels that would nor-mally specify a 1m antenna.

The unique, class-leading performance of SAILOR 800 VSAT also opens up a world of high quality, reliable communications for a wider number of vessels including work-boats, fishing vessels, inland waterways and yachts, whilst providing installation flexibil-ity for vessels of all types and size.

Tried and Tested

If you know SAILOR 900 VSAT, you already know SAILOR 800 VSAT. It uses the same tried & tested features including antenna controller, software, electronics, web MMI, modem and network compatibility to pro-vide reliability and stunning performance.

Lower Cost and Increased up Time

The new SAILOR 800 leaves the factory fully tested and configured, with all RF equipment pre-configured and installed. This reduces the time needed on board for installation, resulting in lower start-up costs for users, whilst the SAILOR build quality ensures reliability and increased up time.

Smaller Form Factor

Customers who would previously have specified a 1m antenna or who may have considered VSAT too 'big' for their vessel, can now install a SAILOR 800 VSAT and enjoy the benefits of a 20% smaller form factor with the performance of a much larger antenna.

Two Antennas – One Modem

The SAILOR VSAT range enables you to operate two antenna systems on a single modem without the need for extra hard-ware to manage the feature; the integrated SAILOR VSAT antenna controllers man-age the connection between satellite and modem. This simple dual antenna configu-ration ensures your vessel has a satellite connection even when there are obstruc-tions in the way.

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Sailor 800 VSAT

SPECIFICATIONS

Frequency band	Ku (VSAT)
Reflector size	83 cm / 32.7"
Certification	CE (Maritime), ETSI, Eutelsat
System power supply range	20 - 32 VDC (Start up voltage: 22 VDC guaranteed)
Total system power consumption	330 W peak, 140 W typical

FREQUENCY BAND

Rx	10.70 to 12.75 GHz
Тх	13.75 to 14.50 GHz (extended)

ANTENNA CABLE

ACU to ADU cable	Single 50 Ω coax for Rx, Tx, ACU-ADU
	modem, 10 MHz reference and DC Power

ANTENNA CONNECTORS

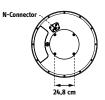
ADU	Female N-Connector (50 Ω)
ACU	Female N-Connector (50 Ω)

ABOVE DECK UNIT (ADU)

3-axis (plus auto skew) stabilised tracking antenna with integrated GPS
Reflector/sub-reflector, ring focus
40.6 dBi typ. @ 14.25 GHz (excl. radome)
38.8 dBi typ. @ 11.70 GHz (excl. radome)
18.2 dB/K typ. @ 12.75 GHz, at ≥30°
elevation and clear sky (incl. radome)
6 W
≥48.1dBW (incl. radome)
2 units multi-band LNB's (band selection by ACU)
Internal "all band/modulation type" DVB-S2, 300
KHz narrowband receiver and modem RSSI
Linear Cross or Co-Pol (selected by ACU)
-25° to +125°
Unlimited (Rotary Joint)
Roll +/-30°, Pitch +/-15°, Yaw +/-10°
15°/s and 15°/s ²
Linear accelerations +/-2.5 g max any direction
Automatic - w. Gyro/GPS Compass input Prepared
for gyro free operation support
Sine: IEC 60945 (8.7.2), DNV A, MIL-STD-167-1
(5.1.3.3.5). Random: Cobham Maritime 1.1 g rms
Sine: IEC 60945 (8.7.2) dwell, MIL-STD-167-1
(5.1.3.3.5) dwell. Random: Maritime survival.
IEC 60721-3-6 class 6 M3 modified by IEC EN 60721-4
MIL-STD-810F 516.5 (Proc. II), IEC EN 60721-4-6
Operational: -25°C to 55°C
Storage: -40°C to 85°C
100%, condensing
IEC 60945 Exposed / IPx6
80 kt. operational 110 kt. survival
25 mm / 1"
1120 W/m ² to MIL-STD-810F 505.4
1 m / 40" to IEC EN 90 645
None (Tamb > 10 °C)
All electronic, electromechanical modules and
belts are replaceable through service hatch
Power On Self Test, Person Activated Self Test
and Continuous Monitoring w. error log







Power OFF	Automatic safe mode
Dimensions (over all)	Height: H 123.5 cm / 48.6" Diameter: Ø 108 cm / 42.5"
Weight	125 kgs. / 275 lbs.

ANTENNA CONTROL UNIT (ACU)

Dimensions	1U 19" ACU
	HxWxD: 4.4 x 48 x 33 cm
	HxWxD: 1.75" x 19" x 13"
Weight	4.5 kgs. / 10 lbs.
Temperature (ambient)	Operational: -25°C to +55°C / -13°F to +131°F
	Storage: -40°C to +85°C / -40°F to +185°F
Humidity	IEC 945 Protected, 95% (non-condensing)
IP class	IP20
Compass safe distance	0.1 m / 4" to IEC 60945
Interfaces	1xN-ConnectorforantennaRFCable(500hm)
	w.automaticcablelosscompensation
	2 x F-Connectors (75 $\Omega)$ for Rx / Tx to VSAT Modem
	1 x Ethernet Data (VSAT Modem Control)
	1 x RS-422 Data (VSAT Modem Control)
	1 x RS-232 Data (VSAT Modem Control)
	1 x NMEA 0183 (RS-422) and prepared for
	NMEA 2000 for Gyro/GPS Compass input
	2 x Ethernet (User)
	1 x Ethernet (ThraneLink, service, set-up etc.)
	1 x DC Power Input
	1 x Grounding bolt
Input power	20 - 32 VDC, 330 W peak, 140 W typical
Modem protocols (ABS)	iDirect OpenAMIP and custom protocol
	Network Innovations MAVERICK using Newtec MDM3100
	ESS Satroaming
	STM SatLink
Display	OLED (red) display, 5 pushbuttons, 3 discrete
	indicator LEDs and ON/OFF switch
No transmit zones	Programmable, 8 zones with azimuth and elevation

VSAT MODEM

Modem types supported	iDirect iNFINITI 5000 series
	iDirect Evolution X5
	Comtech CDM-570L/625
	Comtech CDM-570L with ROSS (ROAM)
	Generic VSAT Modem
	Gilat SkyEdge II/Gilat SkyEdge II PRO
	STM SatLink 2900
	Intersky 4G, Elbit



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