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SAILOR® 800 VSAT KU

Available in standard and NEW High Power versions

Product Sheet

Now with Universal ACU, GNSS module and new software features

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The SAILOR 800 VSAT Ku is a standardized high-performance 3-axis stabilized Ku-band antenna system with an 83 cm reflector dish. It comes in a standard 6W BUC or a high power 20W version and provides the same or better radio performance than a typical 1m antenna.

These claims are supported by industry 3rd party testing, which has shown that SAILOR 800 VSAT Ku provides the best performance for an antenna in the 80cm class.

Quick and Easy

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

A Top Performer

The focus of the SAILOR 800 VSAT Ku 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 is smaller and lighter. This performance makes the new 83cm antenna suitable for vessels that would normally specify a 1m antenna.

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

Lower Cost and Increased up Time

The SAILOR 800 VSAT Ku 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 Ku and enjoy the benefits of a 20% smaller form factor with the performance of a 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 manage the connection between satellite and modem. This simple dual antenna configuration ensures your vessel has a satellite connection even when there are obstructions in the way.

More Flexibility

New high throughput satellite (HTS) services in Ku band such as Intelsat Epic^{NG} and others are making an impact, being offered by numerous maritime VSAT service providers. The SAILOR antenna systems with their unique software-controlled architecture are the ideal choice to utilize these modern spot beam services to their best extent.



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SAILOR® 800 VSAT KU

SPECIFICATIONSFrequency band

System power supply range

FREQUENCY BAND

ACU to ADU cable

ANTENNA CONNECTORS

ABOVE DECK UNIT (ADU) Antenna type, pedestal

Antenna type, reflector system

Total system power consumption

Reflector size Certification

Rx Tx

ADU

ACU

Transmit Gain

Receive Gain System G/T

EIRP

LNB

Polarisation

Tracking Receiver

Elevation Range

Cross Elevation Azimuth Range

Ship motion, angular

ADU motion, linear

Satellite acquisition

Vibration, survival

Shock

Humidity

Wind

Rain / IP class

Ice. survival

Solar radiation

Vibration, operational

Temperature (ambient)

Ship, turning rate and acceleration

BUC output power

Available in standard and NEW High Power versions

83 cm / 32.7

100-240 VAC 50-60 Hz

10.70 to 12.75 GHz

140 W typical, 330 W peak

13.75 to 14.50 GHz (extended Ku)

10 MHz reference and DC Power

Female N-Connector (50 Ω)

Female N-Connector (50 Ω)

sky (incl. radome)

≥48.1dBW (6 W incl. radome) ≥53.3dBW (20 W incl. radome)

Linear Cross or Co-Pol

Unlimited (Rotary Joint)

(5.1.3.3.5). Random: Maritime

6 W or 20 W

-25° to +125°

15°/s and 15°/s2

100%, condensing

EN 60945 Exposed / IP56

80 kt. operational 110 kt. survival

1120 W/m² to MIL-STD-810F 505.4

 $1\ m$ / 55.1" to IEC $\ EN\ 60945$

Single 50 Ω coax for Rx, Tx, ACU-ADU modem,

3-axis (plus auto skew) stabilised tracking antenna with

18.2 dB/K typ. @ 12.75 GHz, at 30° elevation and clear

Internal "all band/modulation type" DVB-S2, 300 KHz

Roll +/-30 $^{\circ}$ (6 s), Pitch +/-15 $^{\circ}$ (5 s), Yaw +/-10 $^{\circ}$ (8 s)

Linear accelerations +/-2.5 g max any direction

Sine: EN 60945 (8.7.2), DNV A, MIL-STD-167-1

Sine: EN 60945 (8.7.2) dwell, MIL-STD-167-1 (5.1.3.3.5) dwell. Random: Maritime

Operational: -25°C to 55°C / -13°F to +131°F Storage: -40°C to 85°C / -40°F to +185°F

MIL-STD-810F 516.5 (Proc. II), IEC EN 60721-4-6

Automatic, with or without, Gyro/GPS Compass input

integrated GNSS (GPS, GLONASS, Beidou) Reflector/sub-reflector, ring focus

40.6 dBi typ. @ 14.25 GHz (excl. radome)

38.8 dBi typ. @ 11.70 GHz (excl. radome)

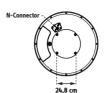
2 units multi-band LNBs (Co-Pol & X-Pol)

narrowband receiver and modem RSSI



Compliant w. CE (2014/53 EU) and FCC (part 15 & 25)

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All electronic, electromechanical modules and
belts are replaceable through the service hatch
Power On Self Test (POST), Person Activated Self Test
(PAST) and Continuous Monitoring with logging
Height: H 123.5 cm / 48.6"
Diameter: Ø 108 cm / 42.5"
125 kg / 275 lb

Weight	125 kg / 275 lb
ANTENNA CONTROL UNIT (AC	CU)
Dimensions	1U 19" ACU
	HxWxD: 4.4 x 48 x 33 cm
	HxWxD: 1.75" x 19" x 13"
Weight	4.5 kg / 10 lb
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	EN 60945 Protected, 95% (non-condensing)
IP class	IP30
Compass safe distance	0.3 m / 12" to EN 60945
Interfaces	1 x N-Connector for antenna RF Cable (50 Ω) with
	authomatic cable loss compensation
	2 x F-Connectors (75 Ω) 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 / RS-232) and prepared for
	NMEA 2000 for Gyro/GPS compass input
	2 x Ethernet (User)
	1 x Ethernet (service, setup etc.)
	1 x AC Power Input
	1 x Grounding bolt
Input power	100-240 VAC, 140 W typical, 330 W peak
User interface	Web MMI, OLED (red) display, 5 pushbuttons, 3 discrete
	indicator LEDs and ON/OFF switch
Temperature control	Built-in fan
Blocking / No-Tx zones	Programmable, 8 zones with azimuth and elevation
Remote access and management	HTTPS, SSH, SNMP Traps, Syslog, CLI, Diagnostic,
	Statistic
VSAT MODEM	
Modem protocols (ABS)	iDirect OpenAMIP and custom protocol

	(ROAM)
	ESS Satroaming
	STM SatLink
Modem types	iDirect iNFINITI 3000/5000 series
	iDirect Evolution X5/X7
	iDirect iQ200 (DVB-S2X)
	Comtech CDM-570L/625/840
	Gilat SkyEdge II, II PRO, II-c Capricorn
	STM SatLink 2900/2910

Intersky 4G, Elbit

ViaSat Linkway S2

Newtec MDM 3100/6000
Generic VSAT Modem

For further information please contact:

Comtech ROSS Open Antenna Management

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71-140191-A05 05 19 MBU

Compass safe distance

Maintenance, scheduled

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