The SAILOR 900 VSAT is an advanced maritime stabilized Ku-band antenna system built with the same high quality and high performance that has made SAILOR the leading name in professional maritime communication equipment over decades. With hundreds of units shipped worldwide in a very short time it truly sets a new standard.

A Top Performer
SAILOR 900 VSAT is an easy and quick to deploy three axis stabilized VSAT antenna with the highest RF performance in the 1m antenna class. Verified by extensive Eutelsat tests, you can trust that SAILOR 900 VSAT works with any leading VSAT platforms in the market.

Reduce Cost
Every SAILOR 900 VSAT antenna system comes factory-tested, equipped ready-to-go with standardized top quality RF components (8W BUC, LNBs, OMT/diplexer) - and only one cable between antenna and below-deck. The antenna is shipped fully balanced, configured and does not need work prior to installation. This time and cost saving, plus the top RF performance make SAILOR 900 VSAT the most cost effective Ku-band antenna on the market to deploy.

Increase up Time
The decision to install VSAT on a ship stems from the desire to have always-on broadband connectivity at a simple flat rate fee. These networks are readily available from many providers (list upon request). Regardless of how and where you operate the SAILOR 900 VSAT, you can be confident of maximum availability because the system has several simple features to make sure your broadband connection is up, and stays up.

Two Antennas - One Modem
SAILOR 900 VSAT can operate two antenna systems on a single modem without the need for an extra box to manage that feature. This requirement arises when the vessel needs a satellite connection even when there are obstructions in the way. The two SAILOR antenna controllers manage the connection between satellite and modem.

More Flexibility
During the coming years, new high throughput satellites (HTS) will come online. Most of the new HTS will operate on Ka-bands. The SAILOR 900 VSAT is now prepared for a possible conversion from Ku to Ka band operation. The result is a thoroughly updated electronics, and both a reflector dish and radome which are both tuned to both Ku- and Ka band frequencies already.
SAILOR® 900 VSAT

A new standard - now with more features and flexibility

SPECIFICATIONS

Frequency band
Ku / Ka-Band (VSAT)

Reflector size
103 cm / 40.6”

Certification
Compliant with CE (Maritime), ETSI

System power supply range
20 - 32 VDC (Start up voltage: 22 VDC guaranteed)

Total system power consumption
370 W peak, 175 W typical

FREQUENCY BAND

Rx
10.70 to 12.75 GHz

Tx
13.75 to 14.50 GHz (extended)

ANTENNA CABLE

ACU to ADU cable
Single 50 Ω coax for Rx, Tx, ACU-ADU modem and power

ANTENNA CONNECTORS

ADU
Female N-Connector (50 Ω)

ACU
Female N-Connector (50 Ω)

ABOVE DECK UNIT (ADU)

Antenna type, pedestal
3-axis (plus auto skew) stabilised tracking antenna with integrated GPS

Antenna type, reflector system
Reflector/sub-reflector, ring focus

Transmit Gain
41.6 dBi typ. @ 14.25 GHz (excl. radome)

Receive Gain
40.6 dBi typ. @ 11.70 GHz (excl. radome)

System G/T
19.9 dBi/kW, @ 12.75 GHz, at ±30° elevation and clear sky (incl. radome)

BUC output power
8 W

EIRP
≥50.1 dBW (incl. radome)

LNB
2 units multi-band LNBF (band selection by ACU)

Tracking Receiver
Internal “all band/modulation type” and VSAT modern RSSI

Polarisation
Linear Cross or Co-Pol (selected by ACU)

Elevation Range
-25° to +125°

Azimuth Range
Unlimited (Rotary Joint)

Ship motion, angular
Roll +/-30°, Pitch +/-15°, Yaw +/-10°

Ship, turning rate and acceleration
15°/s and 15°/s

ADU motion, linear
Linear accelerations +/-2.5 g max any direction

Satellite acquisition
Automatic - w. Gyro/GPS Compass input

Vibration, operational
Sine: IEC 945 (8.7.2); DNV A; MIL-STD-167-1 (5.1.3.3.5). Random: Maritime

Vibration, survival
Sine: IEC 945 (8.7.2) dwell, MIL-STD-167-1 (5.1.3.3.5) dwell. Random: Maritime survival. IEC EN 60721-4-6

Shock
MIL-STD-810F 516.5 (P.1.7.1 m / 67” to IEC 945 Exposed / IPX6

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)

Input power
20 - 32 VDC, 370 W peak, 175 W typical

Modem protocols (ABS)
iDirect OpenAMIP and custom protocol
Comtech ROSS Open Antenna Management (ROADAM)
E5 Satroaming

Display
OLED (red) display, 5 pushbuttons, 3 discrete indicator LEDs and ON/OFF switch

VSAT MODEM

Modem types supported
iDirect INFINETI 5000 series
iDirect Evolution X5
Comtech CDM-570L/i625L
Comtech CDM-570L with ROSS (ROADAM)
Generic VSAT MODEM
Gilat SkyEdge II

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