SAILOR® 900 VIASAT KA

Your All-in-One one-metre Ka-band antenna system and user terminal for high-speed maritime broadband sevices on Viasat 2 and Eutelsat Ka-Sat

Unprecedented ease-of-use

The SAILOR 900 Viasat Ka features fully integrated electronics from Viasat including the newest mobile "pTRIA" and multimedia-over-coax. This level of integration provides an unprecedented level of user friendliness for a maritime Ka band terminal. The mpTRIA is a transmit/receive integrated assembly and VSAT modem, all in a compact package mounted directly in the antenna for best performance. In addition to the Viasat-specific features, the system uses a single cable between antenna and below deck equipment for power and data. Advanced features such as Automatic Azimuth Calibration and Automatic Cable Calibration significantly reduce installation time further.

Enabling new levels of bandwidth at sea

The SAILOR 900 Viasat Ka delivers high-capability, reliable access to the Viasat 2 high throughput satellite services in North America and the Eutelsat KA-Sat services in Europe – leaving you to enjoy the power of broadband for business applications, vessel operations and crew welfare without fear of interruption.

Remote access and diagnostics

When you install a SAILOR 900 Viasat Ka, you get industry-leading customer service. In order to offer the best support to system integrators, SAILOR 900 Viasat Ka offers a number of features for remote access and remote diagnostics, including monthly statistics logging, SNMP traps, and Syslog functionality. These remote maintenance features are supported at every one of Cobham SATCOM's worldwide network of technical service centers that spans every continent. The SAILOR 900 Viasat Ka is an advanced 3-axis stabilized Ka-band antenna system and user terminal that is designed for high-speed maritime broadband services on the Viasat 2 and Eutelsat Ka-Sat satellite networks.

COBHAM

Viasat:*

It is built upon a design that comes directly from the SAILOR 900 Viasat Ka range of proven antenna systems, which created a new industry standard underpinned by ease-of-use, quick deployment ability, and reliable operation.

The SAILOR 900 Viasat Ka range is constructed by Cobham SATCOM to the same high quality and high performance that has made SAILOR the industry benchmark for professional maritime communication equipment for more than 40 years.

SYSTEM SPECIFICATIONS			
Frequency band	Ka-band (Viasat-2)		
Reflector size	103 cm / 40.6"	150 cm	
Type approvals	Viasat / Eutelsat	SAILOR	
Certification	Compliant with CE (2014/53 EU) and FCC (part 15 and 25)		SAILOI
System power supply range	100-240 VAC, 50-60 Hz	Ø130 cm	COBHR
Total system power consumption	200W typical, 410W peak	N-Connector	
Vibration, operational	Sine: EN60945 (8.7.2), DNV A, 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. EN60721-3-6 6M3	K	
Shock	MIL-STD-810F 516.5 (Proc. II)		
Temperature (ambient)	Operational: -25°C to 55°C Storage: -40°C to 85°C	24,8 cm	

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FREQUENCY BAND		ANTENNA CONTROL UNIT (ACU)	
Rx	17.7 to 21.2 GHz	Dimensions	1U 19" ACU HxWxD: 4.4 x 48 x 33 cm
Тх	27.5 to 31.0 GHz		HxWxD: 4.4 x 46 x 35 cm HxWxD: 1.75" x 19" x 13"
ANTENNA CABLE		Weight	4.5 kgs. / 10 lbs.
PIU to ADU cable	Single 50 Ω coax for MoCA, modem and power	Humidity	EN60945 Protected, 95% (non-condensing)
ABOVE DECK UNIT (ADU)		IP class	IP30
Antenna type, pedestal	3-axis stabilised tracking antenna with integrated GNSS(GPS, GLONASS, Beidou)	Compass safe distance	0.3m / 12" to EN60945
Antenna type, reflector system	Reflector/sub-reflector, ring focus	Interfaces	$1 \times N$ -Connector for PIU RF Cable (50 Ω) w. automatic cable loss compensation
Transmit Gain	47.1 dBi typ. @ 29.5 GHz (excl. radome)		2 x F-Connectors (75 Ω) (Not used) 1 x RS-422 (Not used)
Receive Gain	43.8 dBi typ. @ 19.7 GHz (excl. radome)		1 x RS-232 (Not used)
System G/T	20.5 dB/K typ. @ 19.7 GHz, at 30° elevation and clear sky (incl. radome)		1 x NMEA 0183 (RS-422 or RS-232) for Gyro/GPS Compass input (future NMEA2000)
BUC	Viasat mpTRIA		1 x RJ-45 Ethernet (PIU modem communication) 3 x RJ-45 Ethernet (Not used)
LNB	Viasat mpTRIA		1 x AC Power Input
Tracking Receiver	Viasat mpTRIA RSSI		1 x Grounding bolt
Polarisation	Circular Cross-Pol (RHCP, LHCP)	Input power	100 - 240 VAC, 200W typical, 410W peak
Elevation Range	-25° to +125°	Modem control	Generic, Custom protocol
Cross Elevation	+/-42°	User Interface	Web MMI, OLED (red) display, 5 pushbuttons,
Azimuth Range	Unlimited (Rotary Joint)	To successful to a stand	3 discrete indicator LEDs and ON/OFF switch Built-in fan
Ship motion, angular	Roll +/-30°, Pitch +/-15°, Yaw +/-10°	Temperature control	
Ship, turning rate and acceleration	15°/S and 15°/S ²	Blocking zones Programmable, 8 zones with azimuth and elevation PTRIA INTERFACE UNIT (PIU) SPECIFICATION	
ADU motion, linear	Linear accelerations +/-2.5 g max any direction	PIU Dimensions	1U 19" Rack Mount
Satellite acquisition	Automatic - with or without Gyro/GPS Compass input		HxWxD: 4.4 x 48 x 33 cm
Humidity	100%, condensing	W. 1-64	HxWxD: 1.75" x 19" x 13"
Rain / IP class	EN60945 Exposed / IP56	Weight	2.3 kgs. / 5.1 lbs.
Wind	80 kt. operational 110 kt. survival	Humidity	EN60945 Protected, 95% (non-condensing)
Ice, survival	25 mm / 1"	IP class	
Solar radiation	1120 W/m2 to MIL-STD-810F 505.4	Compass safe distance	0.3m / 12" to EN60945
Compass safe distance	1.4 m / 55.1" to EN60945	Interfaces	1 x N-Connector (50) for antenna RF cable
Maintenance, scheduled	None		1 x N-Connector (50) ACU Comm. and Power
Maintenance, unscheduled	All electronic, electromechanical modules and belts are replaceable through service hatch		1 x RJ-45 Ethernet (ACU modem communication) 1 x RJ-45 Ethernet WAN Connector (Internet access)
Built In Test	Power On Self Test, Person Activated Self Test and Continuous Monitoring w. error log		1 x Grounding bolt 1 x Reset toggle switch 1 x LED (Power and Status)
Dimensions	Height: H 150 cm / 58.9" Diameter: Ø 130 cm / 51.3"	Modem type	Viasat (built-in to ADU)
Weight	Diameter: Ø 130 cm / 51.3"	Temperature control	Built-in fan
Weight	126 Kgs. / 276 lbs.		

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