SAILOR® 600 VIASAT KA

Your superlight All-in-One antenna system and user terminal for high-speed maritime broadband services on Viasat and Eutelsat Ka-band satellite networks

Unprecedented ease-of-use

The SAILOR 600 Viasat Ka features a fully integrated Ka-band transmit/receive assembly in the ADU, mounted directly behind the reflector – eliminating the need for cable calibration, and extending separation distance between antenna and below deck equipment.

This level of integration provides an unprecedented level of user friendliness for a maritime Ka band terminal. In addition, advanced features such as Automatic Azimuth Calibration significantly reduce installation time further.

Enabling new levels of bandwidth at sea

The SAILOR 600 Viasat Ka delivers high-capability, reliable services across North America, Central America, the Caribbean, and Europe – leaving you to enjoy the power of broadband for business applications, vessel operations and crew welfare without fear of interruption.

Integrated management and support system

When you install a SAILOR 600 Viasat Ka, you gain access to industry-leading customer service. Cobham's worldwide technical service centres provide hardware support. Service support is provided through the well-established Viasat and Eutelsat Ka network support.

stabilized Ka-band antenna system and user terminal that is designed for high-speed maritime broadband services on Viasat and Eutelsat Ka-band satellite networks.

The SAILOR 600 Viasat Ka is an advanced superlight 3-axis

Built upon a combination of the proven design of the superlight SAILOR 600 platform and the Viasat second generation broadband terminal, the SAILOR 600 Viasat Ka has created a new industry standard underpinned by ease-of-use, quick deployment ability, and reliable operation.

The SAILOR 600 Viasat Ka 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: Rx: 17.7 to 21.2 GHz, Tx: 27.5 to 31.0 GHz

Reflector size 65 cm / 25.5"

Type approvals Viasat / Eutelsat

Certification Compliant with CE (2014/53 EU) and FCC (part 15 and 25)

System power 100-240 VAC, 50-60 Hz

supply range

er 135W typical, 240W peak

Total system power consumption
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 class 6M3

mod. by EN60721-4-6

Shock EN60721-3-6 class 6M3 mod. by EN60721-4-6

Temperature (ambient) Operational: -25°C to 55°C

Storage: -40°C to 85°C



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PIU to ADU cable Single 50 Ω coax for MoCA, modem and power

ABOVE DECK UNIT (ADU)

Antenna type, pedestal 3-axis stabilised tracking antenna with integrated

GNSS (GPS, GLONASS, Beidou)

Antenna type, reflector

system

Reflector/sub-reflector, ring focus

Transmit Gain 43.0 dBi typ. @ 29.5 GHz (incl. radome)

Receive Gain 39.8 dBi typ. @ 19.7 GHz (incl. radome)

System G/T 16.5 dB/K typ. @ 19.7 GHz, at 30° elevation and clear

sky (incl. radome)

Forward Link 10 MSym/sec to 464 Msym/sec

Supports up to 100 Mbps accelerated TCP

Return Link 0.625 MSym/sec to 80 Msym/sec

Supports up to 20 Mbps accelerated TCP

Tracking Receiver Modem RSSI

Polarisation Circular Cross-Pol (RHCP, LHCP)

Elevation Range -28° to +120° Cross Elevation +/-42°

Azimuth Range Unlimited (Rotary Joint)

Ship motion, angular Roll +/-25° (6 sec), Pitch +/-15° (5 sec),

Yaw +/-10° (8 sec)

Ship, turning rate and

acceleration

 $15^{\circ}/S$ and $15^{\circ}/S^{\scriptscriptstyle 2}$

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

Satellite acquisition Automatic - with or without Gyro/GPS Compass input

Humidity100%, condensingRain / IP classEN60945 Exposed / IP56

Wind 80 kt. operational 110 kt. survival

Ice, survival 25 mm / 1"

Solar radiation 1120 W/m2 to MIL-STD-810F 505.4

Compass safe distance 1.0 m / 40" to EN60945

Maintenance, scheduled

Maintenance, All electronic, electromechanical modules and

unscheduled belts are replaceable

Built In Test Power On Self Test, Person Activated Self Test

and Continuous Monitoring w. error log

Dimensions Height: H 91 cm / 36"

Diameter: Ø 82 cm / 32"

Weight 37 Kg / 82 lb

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.

Humidity EN60945 Protected, 95% (non-condensing)

IP class IP30

Compass safe 0.3m / 12" to EN60945

distance

Interfaces $1 \times N$ -Connector for PIU RF Cable (50 Ω)

w. automatic cable loss compensation $2 \times F$ -Connectors (75 Ω) (Not used)

1 x RS-422 (Not used)

 $1 \times RS-232$ (Not used)

1 x NMEA 0183 (RS-422 or RS-232) for Gyro/GPS

Compass input (future NMEA2000)

1 x RJ-45 Ethernet (PIU modem communication)

3 x RJ-45 Ethernet (Not used)

1 x AC Power Input 1 x Grounding bolt

Input power 100 - 240 VAC, 135W typical, 240W peak

Modem control Generic, Custom protocol

User Interface Web MMI, OLED (red) display, 5 pushbuttons,

3 discrete indicator LEDs and ON/OFF switch

Temperature control Built-in fan

Blocking zones Programmable, 8 zones with azimuth and elevation

PTRIA INTERFACE UNIT (PIU) SPECIFICATION

PIU Dimensions 1U 19" Rack Mount

HxWxD: 4.4 x 48 x 33 cm HxWxD: 1.75" x 19" x 13"

Weight 2.3 kgs. / 5.1 lbs.

Humidity EN60945 Protected, 95% (non-condensing)

IP class IP30

Compass safe 0.3m / 12" to EN60945

distance

Interfaces $1 \times N$ -Connector (50 Ω) for antenna RF cable

1 x N-Connector (50 Ω) ACU Comm. and Power 1 x RJ-45 Ethernet (ACU modem communication) 1 x RJ-45 Ethernet WAN Connector (Internet access)

1 x Grounding bolt 1 x Reset toggle switch 1 x LED (Power and Status)

Modem type Viasat (built-in to ADU)

Temperature control Built-in fan

Global headquarters

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