

SAILOR® 900 VSAT High-Power

The SAILOR 900 VSAT High Power is a direct evolution of the innovative SAILOR 900 VSAT platform, which has become a benchmark for quality and high performance.

Focus on higher return links

While one meter Ku-band antennas with 8W RF configurations are now a defacto standard for global Ku-band networks, the ever increasing demand for more band-width and higher data throughput also for the uplink to the satellite has triggered demand for antenna systems with higher RF power.

A competitive package

To meet the challenge, Cobham SATCOM has employed its proven engineering method to design and specify a new 20W extended frequency BUC, with focus on performance and reliability. Because it is an in-house



Two Antennas, One Subscription

Service Level Agreements (SLA) are a crucial aspect of maritime IT and commu-nication solutions. In order to meet the demand for high SLAs, especially when there are obstructions on the ship that cannot be overcome by setting up block-ing zones, satcom service providers some-times install two antennas. The SAILOR Ku-Band VSAT platform makes this easier and less costly as it can operate two antenna systems on a single modem with-out the need for an extra box to manage the connection to the VSAT modem. The two SAILOR antenna controllers manage the connection between satellite and satellite router fully automatically and the switch-over happens in just 20 milliseconds.

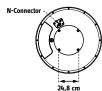
More Power - More Flexibility

New Ku-band and Ka-band high through-put satellites (HTS) are coming online. All SAILOR Ku-Band VSAT has been tested to work on HTS services, including Intelsat's EpicNG. Additionally, even with its unique higher power BUC, the SAILOR 900 VSAT High Power is prepared for conversion from Ku- to Ka-band operation should the project demand it. State-of-the-art elec-tronics, and a reflector dish and radome tuned for optimum performance on both Ku- and Ka-band frequencies ensure that SAILOR 900 VSAT High Power is an incredibly flexible solution.









			Ø130 CM	24,8 cm
FREQUENCY BAND				
Rx	10.70 to 12.75 GHz	Power OFF	Automatic safe mode	
Tx	13.75 to 14.50 GHz (extended)	Dimensions (over all)	Height: H 150 cm / 58.9"	
	(, , , , , , , , , , , , , , , , , , ,		Diameter: Ø 130 cm / 51.3"	
ANTENNA CABLE		Weight	126.5 Kgs. / 279 lbs.	
ACU to ADU cable	Single 50 Ω coax for Rx, Tx and power			
		ANTENNA CONTROL UNIT (ACU)		
ANTENNA CONNECTORS		Dimensions, Rack Mount	1U 19" ACU	

Ku-Band, Ka-Band convertable

480 W peak, 320 W typical

Compliant with CE (Maritime), ETSI 100 - 240 VAC, 50-60 Hz

103 cm / 40.6"

Frequency band Reflector size

System power supply range Total system power consumption

Certification

Humidity

Wind

Rain / IP class

Ice, survival

Built In Test

Solar radiation

Compass safe distance

Maintenance, scheduled

Maintenance, unscheduled

ADU	Female N-Connector (50 Ω)	_	HxWxD: 4.4 x 48 x 33 cm	
ACU	Female N-Connector (50 Ω)		HxWxD: 1.75" x 19" x 13"	
1100	remaie iv connector (30 12)	Weight, Rack Mount	4.2 kgs. / 10 lbs.	
ABOVE DECK UNIT (ADU)		Temperature (ambient)	Operational: -25°C to +55°C / -13°F to +131°F	
Antenna type, pedestal	3-axis (plus auto skew) stabilised tracking antenna with integrated GNSS	_	Storage: -40°C to +85°C / -40°F to +185°F	
/ witering type, pedestal		Humidity	EN 60945 Protected, 95% (non-condensing)	
	(GPS, GLONASS, Beidou)	IP class	IP30	
Antenna type, reflector system	Reflector/sub-reflector, ring focus	Compass safe distance	0.3 m / 12" to EN 60945	
Transmit Gain	41.6 dBi typ. @ 14.25 GHz (excl. radome)	Interfaces	1 x N-Connector for antenna RF Cable (50	
Receive Gain	40.6 dBi typ. @ 11.70 GHz (excl. radome)	Ohm) w. automatic cable loss compensation		
System G/T	19.9 dB/K typ. @ 12.75 GHz, at ≥30° elevation	_	2 x F-Connectors (75 Ω) for Rx / Tx to	
	and clear sky (incl. radome)		VSAT Modem	
BUC output power	20 W, ext. frequency (LO: 12.8 GHz)	_	1 x Ethernet Data (VSAT Modem Control)	
EIRP	≥54.3 dBW (incl. radome)	_	1 x RS-422 Data (VSAT Modem Control)	
LNB	2 units multi-band LNB's (band selection by ACU)	_	1 x RS-232 Data (VSAT Modem Control)	
Polarisation	Linear Cross or Co-Pol (selected by ACU)	_	1 x NMEA 0183 (RS-422) and prepared for	
Tracking Receiver	Internal "all band/modulation type" and VSAT	_	NMEA 2000 for Gyro/GPS Compass input	
	modem RSSI		2 x Ethernet (User)	
Satellite acquisition	Automatic - w. Gyro/GPS Compass input.	_	1 x Ethernet (ThraneLink, service, set-up etc.)	
	Support for gyrofree operation		1 x AC Power Input	
Elevation Range	-25° to +125°	_	1 x Grounding bolt	
Azimuth Range	Unlimited (Rotary Joint)	Input power	100 - 240 VAC, 320 W typical, 480 W peak	
Ship motion, angular	Roll +/-30°, Pitch +/-15°, Yaw +/-10°	Display	OLED (red) display, 5 pushbuttons, 3 discrete	
Ship, turning rate and acceleration	15°/s and 15°/s²	_	indicator LEDs and ON/OFF switch	
ADU motion, linear	Linear accelerations +/-2.5 g max any direction	No transmit zones	Programmable, 8 zones with azimuth and elevation	
Vibration, operational	Sine: EN 60945 (8.7.2), DNV A, MIL-STD-167-1	Modem protocols (ABS)	iDirect OpenAMIP and custom protocol	
•	(5.1.3.3.5). Random: Maritime		Comtech ROSS Open Antenna Management	
Vibration, survival	Sine: EN 60945 (8.7.2) dwell, MIL-STD-167-1	_	(ROAM)	
	(5.1.3.3.5) dwell. Random: Maritime survival.		ESS Satroaming	
	IEC EN 60721-4-6		STM SatLink	
Shock	MIL-STD-810F 516.5 (Proc. II), IEC EN 60721-4-6	_		
Temperature (ambient)	Operational: -25°C to 55°C	VSAT MODEM		
•	Storage: -40°C to 85°C	Modem types supported	iDirect iNFINITI 3000/5000 series	
			Direct Evalution VE/V7	

Remote Satellite Systems

100%, condensing

25 mm / 1"

EN 60945 Exposed / IPX6

1.7 m / 67" to EN 60945

80 kt. operational 110 kt. survival

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

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

TOLL FREE 1-888-989-8199

iDirect Evolution X5/X7

Generic VSAT Modem

STM SatLink 2900

ViaSat Linkway S2

Inmarsat G5

Comtech CDM-570L/625

Comtech CDM-570L with ROSS (ROAM)

Gilat SkyEdge II/Gilat SkyEdge II PRO

1455 N. Dutton Suite A, Santa Rosa, CA 95401 FAX 707-546-8198 • info@remotesatellite.com www.remotesatellite.com