SAILOR® 657X DGNSS SYSTEM & BASIC

Network integrated differential satellite navigation

2015 Product Sheet

The most important thing we build is trust

COBHAM

The SAILOR 6570 DGNSS System and SAILOR 6571 DGNSS Basic (Differential Global Navigation Satellite System) set new standards in functionality and flexibility for satellite navigation sensors. Built to the highest quality SAILOR standards, they join the already available SAILOR 639X Navtex and SAILOR 628X AIS as new generation network integrated SAILOR products designed to work in the unique SAILOR 'Multi-Function Universe'.

Touch-screen control

The advanced touch-screen SAILOR 6004 Control Panel forms the heart of the Multi-Function Universe, providing full control for all products connected to it from a single device. Operation of all systems connected to the SAILOR 6004 Control Panel is easy; just select the icon for the product on screen as you would an app on any modern device, to be given full control of all set-up, functions and diagnostics.

Reliability for critical operations

The SAILOR 6570 DGNSS System and SAILOR 6571 DGNSS Basic collect satellite data from any available navigation satellites including GPS and GLONASS. Using position corrections from reference beacons, position accuracy down to 1 meter is possible for a variety of on board systems such as; ECDIS (Electronic Chart Display System), INS (Integrated Navigation System), GMDSS (Global Maritime Distress & Safety System), SATCOM (Satellite Communication System), MCS (Master Clock Systems) and PABX (Telephone Exchanges).

The black box brain

The black box SAILOR 6588 DGNSS Receiver is the brain behind the system. The receiver has connections for antenna, power, position and speed log output, LAN connections for SAILOR Control Panel and on board LAN. Together with the SAILOR 6286 Active DGNSS antenna, The SAILOR 6588 DGNSS Receiver acts as the main DGNSS position sensor on board SOLAS vessels.

Build your Multi-Function Universe

The SAILOR 6570 DGNSS System and SAILOR 6571 DGNSS Basic are true SAILOR products. They are 100% designed in-house at Cobham SATCOM, with two versions that provide flexibility for starting or growing your Multi-Function Universe on board. Both versions come with the SAILOR 6588 DGNSS Receiver. The SAILOR 6570 DGNSS System is delivered with the SAILOR 6004 Control Panel and the SAILOR 6286 DGNSS Antenna, while the SAILOR DGNSS 6571 Basic is delivered with the antenna only.

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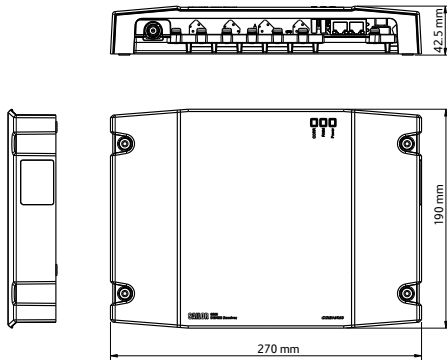**Marine Electronics & Satellite Communications**
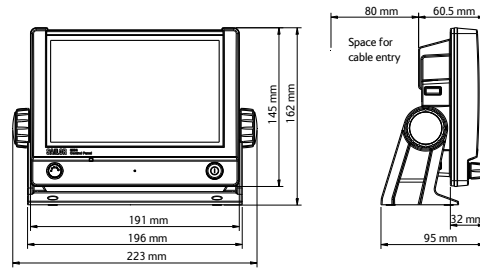**www.mackaymarine.com**

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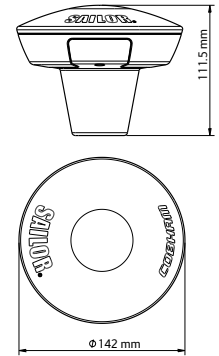COBHAM

Network integrated differential satellite navigation

SAILOR 6588 Receiver

42.5 mm
190 mm
270 mm

SAILOR 6004 Display

80 mm | 60.5 mm
Space for cable entry
145 mm
162 mm
191 mm
196 mm
223 mm
32 mm
95 mm

SAILOR 6286 Antenna

111.5 mm
Ø 142 mm

SAILOR 6588 DGNSS RECEIVER

Receiving Channels	30 Channels
Rx Frequency	1575 MHz (GPS) 1602 MHz (GLONASS)
Position Fixing System	GPS / GLONASS
Position Accuracy	1 m (DGNSS) - 1.5 m (w/o Differential)
Tracking Velocity	0.1 kn
Position-Fixing Time Cold start	45 sec
Position Update interval	0.5 sec (configurable)
Beacon Receivers	283.5 - 325 kHz MSK three parallel receivers
Input Voltage	10.8 to 31.2 VDC
Power Consumption	5W (0.2A @ 24VDC input voltage)
Heat dissipation	< 10W
Weight	1.3 kg
Dimensions (L x W x H)	190 mm x 270 mm x 42.5 mm
Equipment class	Protected according to IEC 60945
Temperature range (operation)	-15°C to 55°C
Temperature range (storage)	-30°C to 80°C
Compass Safe Distance	300 mm (standard magnetic compass)
	200 mm (Emergency magnetic compass)
Antenna connector	TNC female
Control Panel Connection	LAN
Mounting	Bulk head or table mount

INTERFACES

LAN Interface w/ QoS Management	2 ports, RJ45, RSTP switch
2 serial inputs	NMEA0183
2 serial outputs	NMEA0183
1 serial input / output	NMEA0183
Speed Log Output	100/200/300/400 pulses per nautical mile
Alarm Relay	NO/COM/NC
Pulse per Second	PPS output
Antenna	GNSS / DGNSS Antenna

SAILOR 6004 CONTROL PANEL

Mounting method	Flush mount, table mount or bulk head mount.
Power Supply	10.8 to 31.2VDC
Power Consumption	Typical: 18 W active
	Peak: 42 W
	3.15 A internal fuse (non-serviceable)

Audio input	Up to 6 W in 8 Ohm
Interfaces	2 x Ethernet (10/100Mbit/s)
	Accessories connector
	Auxiliary Connector
Compliance	- IEC 60945
	- IEC 60950-1
IP rating	IP54
Ambient temperature	-15°C to +55°C
Storage temperature	-30°C to +80°C
Compass safe distance	0.6 m
Dimensions (W x H x D)	191 mm x 141 mm x 61 mm (without mounting bracket)
Weight	1.1 kg (1.25 kg. with mounting bracket)

SAILOR 6286 DGNSS ACTIVE ANTENNA

Dimensions	Ø: 142 mm, H: 53 mm
Weight	0.57 kg
Mounting	Bracket mount on pipe, thread 1 1/4" x 11 TPI
Equipment class	Exposed, according to IEC 60945
Antenna type	Active patch antenna for GNSS combined with H-field antenna for beacons
Frequency	1560 to 1608 MHz
	283.5 to 325 kHz
Impedance	Nominal 50 Ohm
Polarization	Circular right-hand for GNSS
Coverage	Hemispherical
Selectivity	30 dB down at center ±42 MHz for GNSS
Gain	25 dB
Supply voltage	5 ±1 VDC
Current consumption	Approx 50 mA
Connector	TNC female
Cable	Coax cable recommended (max 10 dB signal loss)
Operating temperature	-40°C to +55°C
Storage temperature	-40°C to +80°C