

SAILOR H3026S Mini-C

**INTEGRATED
INMARSAT-C/GPS
SYSTEM WITH EGC**



The SAILOR H3026S Mini-C supports the daily needs for communication at sea through the Inmarsat satellite network. The Inmarsat-C services are supported, including e-mail (EasyMail), EGC (Safety Net and Fleet Net), position reporting and polling, fax, telex, X.25 data files and mobile-to-mobile communication. Especially the e-mail has become popular at sea for business as well as for personal communication.

The SAILOR H3026S Mini-C fulfils the requirements for Vessel Monitoring Systems (VMS) on board vessels. The system can be used for automatic tracking as well as position polling from shore. In this way the ship managers can monitor the position of their fleet simply by activating a position polling.

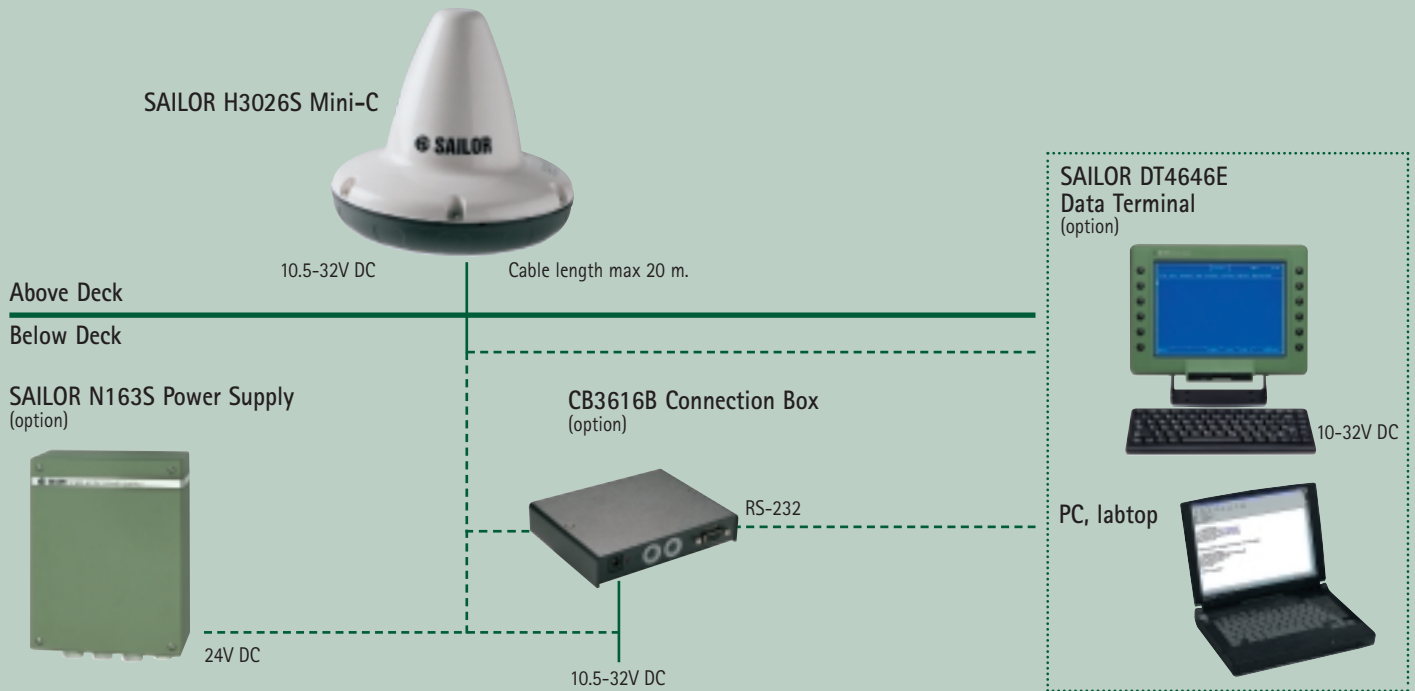
The extremely compact and ruggedized design, in combination with the reliable Inmarsat-C services, makes the

SAILOR H3026S Mini-C an attractive solution for all types of vessels from leisure to fishing and deep sea.

Features

- Integrated antenna, transceiver and 12-channel GPS receiver
- Inmarsat-C services with global coverage
- Fax (sending)
- Comes with EasyMail communication software for Windows
- Receives Enhanced Group Call (EGC) messages for Safety Net and Fleet Net (for Data Terminal, not printer)
- Low power consumption with an advanced sleep mode function
- Easy installation
- Fulfils the requirements for VMS on board
- Designed and approved for maritime applications (non Distress/non GMDSS)

SAILOR H3026S Mini-C



Technical Specification

General Specifications:

Meets or exceeds current and proposed Inmarsat specifications for Mini-C Land Mobile Earth Station and Mini-C Ship Earth Station.

Compliant to:

FCC title 47, part 25, section 25.216

Internal Antenna:

Inmarsat-C/GPS omnidirectional antenna. RHC polarized. G/T - 23.7 dB/K and EIRP 7 dBW at 5° elevation. Coverage + 90° to -15°

Operating Frequencies:

Receive: 1525.0 - 1545.0 MHz
Transmit: 1626.5 - 1646.5 MHz
GPS: 1575.42 MHz

Channel Spacing:

2.5 / 5 kHz

Modulation:

600 and 1200 symbols/s. BPSK.

Data Rate:

TX 300 and 600 bit/s, RX 600 bit/s

Terminal Interface:

RS-232 w. hardware flow control.
4800 - 115000 Baud. VT-100 mode

I/O Port:

6 user configurable 3.3 V I/O's (5 V tolerant). Each open collector output sinks 25 mA, 1 pin reserved for Land Mobile Alert configuration

Message Storage Capacity:

175 kB SRAM

Internal GPS:

12-channels. 1 sec. Update rate. 15 m RMS accuracy.

Power Supply requirements:

10.5 - 32V DC floating

Power Output:

3.3V DC / 100 mA, output for terminal equipment

Sleep Mode:

Power supply 12V DC, timer and event programmable modes, reporting interval vs typical total power consumption:

15 minutes / 288 mW
30 minutes / 148 mW
1 hour / 78 mW
2 hour / 43 mW
5 hour / 25 mW
10 hour / 16 mW
24 hour / 11 mW

Ambient Temperature:

-35° C to 55° C operating -40° C to 80° C storage

Solar Radiation:

Maximum flux density: 1200W/m²

Rain:

100 mm/hour, droplet size 0.5 to 4.5 mm

Wind:

Relative wind up to 200 km/hr (124 mph.)

Velocity:

Max. Velocity up to 140 km/hr (87 mph.)

Vibration Operational:

Random 5-20 Hz 0.005 g²/Hz, 20 - 150 Hz -3dB/oct. (0.5g rms)

Shock:

Survival half sine 20g/11ms

Mounting Options:

Standard 1" tube, or 3 bolts on flat surface with 30 mm (1.2") hole for cable

Dimensions:

Ø: 163 mm, H: 146.2 mm (Ø: 6.4", H: 5.8")

Weight:

1.1 Kg (2.4 lb)

Specifications subject to change without notice.