



# SAILOR 100GX



MARITIME

Advanced Antenna System  
for Maritime Communications



**SEAMLESS SWITCH  
BETWEEN ANTENNAS**

**SINGLE CABLE SYSTEM**

**ADVANCED TRACKING  
RECEIVER**

**REMOTE ACCESS AND  
DIAGNOSTICS**

**BUILT-IN WEB SERVER**



SAILOR 100 GX offers a seamless and cost-effective switch between antennas to enable high-speed broadband and operational continuity. It features an advanced tracking receiver for quick satellite acquisition at start-up and in case of poor signal strength.

Designed to withstand high shock and vibration conditions, SAILOR 100 GX features Automatic Azimuth Calibration, Automatic Cable Calibration, and Global Xpress One Touch Commissioning.

SAILOR 100 GX is powered by the high-end Ka-band Inmarsat network. Having a long-standing relationship with Inmarsat, IEC Telecom will ensure the best quality of service and provide a range of value added services to support the requirements of your vessel.

## CHARACTERISTICS

### System Specifications

- Reflector Size: 103 cm
- Power Options
  - 100 – 240 V AC ; 50 – 60 Hz
  - Consumption: 175 W (Typical); 370 W (Peak)
- Vibration
  - Operational: Sine: EN60945 (8.7.2), DNV A, MIL-STD-167-1 (5.1.3.3.5)
  - Survival: Sine: EN60945 (8.7.2) MIL-STD-167-1 (5.1.3.3.5), EN60721-3-6 6M3
- Shock: MIL-STD-810F 516.5 (Proc. II)
- Temperature
  - Operational: -25°C to 55°C
  - Storage: -40°C to 85°C
- Frequency
  - Rx: 19.2 to 20.2 GHz
  - Tx: 29.0 to 30.0 GHz
- ACU to ADU Antenna Cable: Single 50 Ω coax
- Dimensions:
  - ADU: 150 cm (h)x130 cm (dia)
  - ACU & GMU: 4.4 x 48 x 33 cm
- Weight:
  - ADU: 126 kg
  - ACU: 4.5kg
  - GMU: 3.5kg
- IP Rating:
  - ADU: IPX6
  - ACU & GMU: IP30
- Elevation Range: -25° to +125° (ADU)

- Humidity:
  - ADU: 100%, condensing
  - ACU & GMU: 95%, non-condensing
- Transmit Gain: 47.5 dBi typ. @ 29.5 GHz (excl. radome)
- Receive Gain: 44.0 dBi typ. @ 19.7 GHz (excl. radome)
- EIRP: ≥53.5 dBW (incl. radome) MAX. 36.0 dBW/40KHz
- LNB: GX Ka single band LNB
- 3-axis Stabilised Tracking Antenna
- Integrated GNSS (GPS, GLONASS, Beidou)

## INTERFACE

### Antenna Control Unit (ACU)

- 1 x N-Connector for antenna RF Cable (50 Ω)
- 2 x F-Connectors (75 Ω)
- 1 x Ethernet (modem)
- 1 x RS-422
- 1 x RS-232
- 1 x NMEA 0183 (RS-422 or RS-232)
- 3 x Ethernet (2x user & 1x service, set-up)
- 1 x AC Power Input
- 1 x Grounding Bolt

### GX Modem Unit (GMU)

- 1 x LAN Connector
- 2 x F-Connectors (75 Ω)
- 1 x RS-422
- 2 x RS-232 (modem control & modem console)
- 1 x Universal AC Input
- 1 x Grounding Bolt
- Built-in Fan and Heater