

SAT 550X **Globalstar** Marine Terminal



Globalstar's constellation of 48 low-earth-orbiting (LEO) satellites, transmits calls from your vessel to a terrestrial gateway, where they are passed to existing fixed and cellular telephone networks in more than 100 countries on 6 continents.

Globalstar offers world-class products and services, including high quality voice, roaming and Short Messaging Service (SMS).

ICS Electronics is a leading World manufacturer of ship and coast station radio systems for GMDSS distress and safety communications.



High quality cellular style communication, even out of sight of land. The SAT550X Marine Terminal offers Dual Mode, Satellite and GSM 900 communications to all sea-going vessels and is also suitable for many applications on land.



Satellite/GSM phone optional

With Globalstar, one phone is all you need to communicate virtually anywhere around the globe. Simply, dependably and affordably. The SAT550X allows calls to be made or received within a vessel (or building) without the need to carry a hand terminal outside.

The SAT550X offers automatic roaming between Globalstar satellite services and the land-based GSM 900 cellular telephone network. One telephone subscriber number covers both satellite and GSM communication. This is supported by a single SIM card with all calls being charged to one billing account.

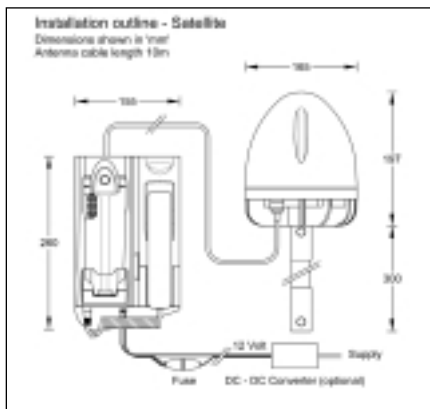
Path diversity is an important feature of the Globalstar system. Several satellites carry the signal. If superstructure, rigging or other objects block the signal to one of the satellites, the call will continue, carried by the other satellites. Continuous service is possible, even during pitching and rolling, without the complexity of a servo controlled moving antenna.

For occasional use on land or deck, the SAT550 hand terminal can be unclipped and carried as a portable unit. The marine terminal cradle keeps its battery fully charged.

FEATURES

- ▶ Reliable, secure high quality speech
- ▶ Call rates comparable to international cellular roaming
- ▶ Dual mode Globalstar satellite and GSM 900 roaming
- ▶ Separate waterproof marine satellite & optional GSM antenna
- ▶ Flexible power supply options
- ▶ Integrated 'Mini' telephone handset
- ▶ Built in charger for SAT550 terminal
- ▶ SAT550 hand terminal may be removed for portable use
- ▶ Easy Installation
- ▶ Range of marine installation accessories

SAT 550X Marine Satellite Terminal



The omni-directional waterproof antenna can be mounted in any position which has a reasonably clear view of the horizon. A 10 metre antenna cable is provided (15 metre option).

Other options include a dedicated marine GSM antenna. This should be located as high as possible to provide maximum cellular range.



TECHNICAL SPECIFICATION

Type Approval Standards

Globalstar & European R+TTE Directive approvals to:-

- IEC 945 (clauses 9, 10).
- ETSI ETS 300 019
- TBR41

Power

Voltage range	10.8V to 15.6V
Consumption	10W (30W max)

Base Unit

- Operating Temperature Range 0 to +40°C
- Storage Temperature Range -20 to +55°C
- Humidity 0 to 95%
- Weight (including hand terminal) 1.0Kg
- Mounting
Vertical or horizontal below decks

Satellite Antenna

- Operating Temperature Range -10 to +50°C
- Storage Temperature Range -20 to +55°C
- Humidity 0 to 95% non-condensing
- Mounting, above decks on 1" x 14 T.P.I. thread/fitting
- Weight 0.8Kg
- Power Provided by Base Unit

OPTIONS

- | | | | |
|----------|---|-----------|---|
| • 500.09 | 24V to 12V isolating dc-dc converter | • 500.08 | US - flat pin A.C. Line cord for 500.05 |
| • 500.10 | 12V to 12V isolating dc-dc converter | • 2510.04 | 15m Globalstar satellite antenna cable |
| • 500.05 | 110/220V mains to 12V dc adapter | • 2510.05 | RS232 Data cable |
| • 500.06 | UK - square pin A.C. Line cord for 500.05 | • 2520.01 | Antenna deck mount bracket |
| • 500.07 | EU - round pin A.C. Line cord for 500.05 | • 2520.07 | GSM antenna with 10m cable |
| | | • 2520.08 | Deck cable gland for antenna cable |
| | | • 2520.06 | Telit SAT550 Satellite/GSM Phone |

TX / RX Specifications

Globalstar

- TX Frequency band 1618 MHz
- RX Frequency band 2491 MHz

GSM

- TX Frequency band 890.2 to 914.8MHz
- RX Frequency band 935.2 to 959.8MHz

TX Power

Globalstar

- 2W (+33dBm)

GSM

- Max Power on 50 Ohm 2W (+33dBm)
- Power Class 4

SAT550 Battery Charging

- Full Recharge Time 180 mins
- Time to 80% Charge 60 mins

The SAT550X is available with or without the Telit SAT550 Hand terminal.

The Globalstar maritime service coverage area covers all Europe and many other parts of the World and has been extended to many Ocean regions. Please check our web site, www.icselectronics.co.uk for the latest service area coverage map.

ICS Electronics Ltd. takes no responsibility for the availability (or otherwise) of Globalstar services in a particular area.

ICS Electronics has a policy of continuous product improvement and reserves the right to vary in detail from the specifications contained in this brochure.

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Available from: