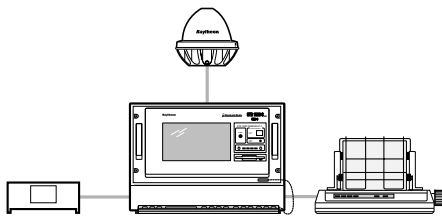


Raytheon

INMARSAT-C

INMARSAT-C/GPS

Ship Earth Station
STR 1500 C
Desk Top Version



The **STR 1500 C** is a complete INMARSAT-C Ship Earth Station (SES).

The system fulfills the GMDSS requirements and is designed for the commercial shipping fleet.

All main components are integrated into a desk top console which is ready for connection. The compact design guarantees simple installation and easy operation.

The STR 1500 C system consists of the antenna unit (incorporates a GPS receiver as a standard feature), a 19" rack mounted unit incorporating the transceiver, the data and message processing unit, the easily readable EL display panel and the keyboard, plus an automatic AC/DC switch-over power supply and the printer as an option.

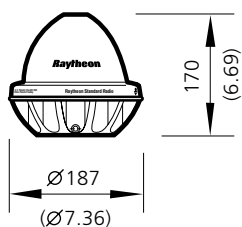
*Die **STR 1500 C** ist eine komplette INMARSAT-C Schiffserdfunkstation (SES).*

Sie erfüllt die GMDSS Vorschriften und ist für den Einsatz in der kommerziellen Schifffahrt konzipiert.

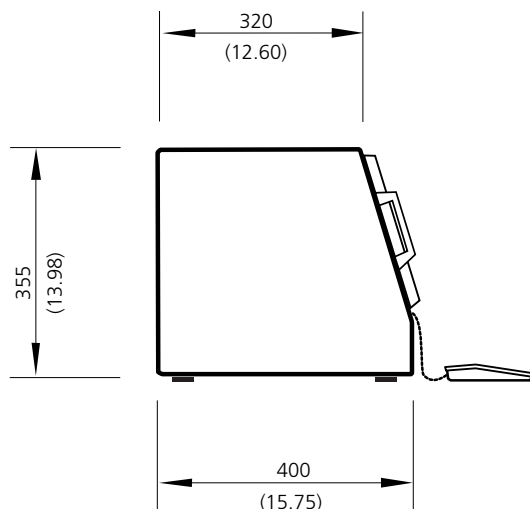
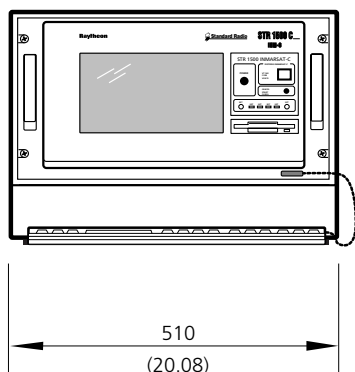
Alle Hauptkomponenten sind in einer anschlussfertigen Desk Top Konsole integriert. Die kompakte Bauweise garantiert einfache Installation und leichte Bedienung.

Das STR 1500 C System besteht aus einer Antenneneinheit (einschließlich eines GPS-Empfangsteils als Standard), einem 19"-Einschub mit integriertem Sende-/Empfangsmodul zur Nachrichtenverarbeitung, leicht lesbarer EL-Anzeigetafel und Tastatur, plus eine automatische AC/DC umschaltbare Stromversorgung und einem Drucker als Option.

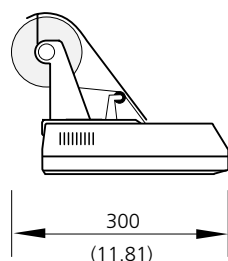
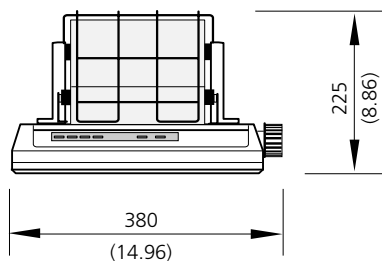
Technical Data



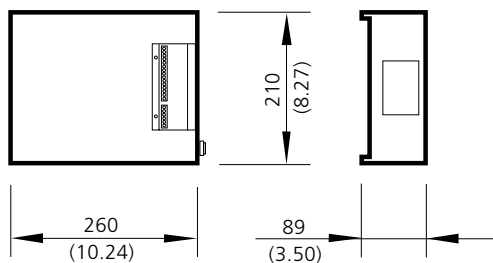
Antenna
Weight 2.4 kg



**STR 1500 C INMARSAT-C
Desk top version**
Weight 24.0 kg



Printer (optional)
Weight 5.6 kg



Power supply unit (optional)
Weight 5.6 kg

Dimensions in mm (inches)

Antenna

Omnidirectional, RHS polarized including
GPS reception
EIRP: 14 ± 2 dBW minimum
at 5° elevation

Operation temperature: -35°C to +55°C
Humidity: 95% at +40°C

GPS Receiver Characteristics

Satellites tracked: 8 max.
Update rate: 1 second (typical)
Acquisition time: < 2 minutes
2-dimensional
(typical, cold start)

Accuracy*:
- Position: 15 m RMS (typical)
- Velocity: 0.2 km/hr RMS
(steady state)

*Note

All GPS receivers are subject to degradation of position and velocity accuracies under Department of Defense imposed Selective Availability (S/A). Position may be degraded up to 100 meters 2D RMS.

Transceiver

Transmitter: 1,626.5 - 1,646.5 MHz
Receiver: 1,530.0 - 1,545.0 Mhz
Channel spacing: 5 MHz
Modulation: 1200 symbols/sec. BPSK
Data rate: 600 bits/sec.
Operation temperature: -25°C to +55°C
Storage temperature: -55°C to +85°C
Humidity: 95% at +40°C
System Programming: Hard drive via terminal of installation set up
Flash ROM (optional)

Computer Operating System: DOS 5.0 or higher

Interfaces

Antenna: Coax, type N-connector
max. 40 m cable RG214/U
Printer: Centronics parallel
DB-25 male connector
RS-232 (optional)
RS-422 serial;
NMEA 0183
(GLL, GGA, VTG);
CONXALL 6-pin connector
AU 2000 (optional)
GPS: RS-422 serial;
NMEA 0183
(GLL, GGA, VTG);
CONXALL 6-pin connector
AU 2000 (optional)
Remote Alarm: AU 2000 (optional)

Power Supply

24V DC; 115V/230V AC
receive: approx. 65 W
transmit: approx. 150 W

Type Approvals

Inmarsat: IT-04-073-01

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