



LT-3100 SATELLITE COMMUNICATIONS SYSTEM

designed and built for the demanding and rough environment at sea

LT-3100 IN SHORT

- Voice, SMS, Data, and Vessel tracking
- 2.4 kbps and 9.6 kbps compressed data
- Programmable softkeys for e.g. Emergency Service
- Single antenna cable solution (up to 500 m)
- High-performance GNSS/GPS receiver
- High quality microphone, speaker, and equalizer for improved audio performance
- Bluetooth interface supporting voice, SMS, and data

- Large 4.3" TFT display supporting day and night modes
- Voice prompt audio feedback
- Firewall and user authentication for high level of security
- Webserver for configuration and maintenance
- Support external LAN Wi-Fi Access Points
- Support external SIP PABX and SIP handsets
- Connectivity of Smartphones, Softphones, and Apps

PRODUCT DESCRIPTION

The LT-3100 Satellite Communications System is a maritime satellite communication product from Lars Thrane A/S. The LT-3100 system is designed for the professional market (deep sea, fishing, and work-boats), but can be used for the leisure market as well. The LT-3100 system meets all standards and certification requirements needed for worldwide maritime satellite communication equipment.

The LT-3100 system has voice and data capabilities with 100% global coverage provided by the Iridium® Communications Network. The LT-3100 system consists of a control unit, antenna unit, handset and cradle. A single coaxial cable connects the control unit with the antenna unit. Using a standard coaxial cable, up to 500 meters of separation between the units can be obtained, giving freedom to mount the antenna unit in the best possible location, with free line of sight to the satellites.

The LT-3100 system can be used as the primary satellite communication product on vessels, covering the basic communication needs in terms of connectivity between the ship and shore. In addition, the LT-3100 system can be used for crew calling or as back-up satellite communication product. The LT-3100 system provides voice, SMS, data, vessel tracking, and other Iridium services with competitive airtime rates, making it the perfect satellite communication product on board any vessel.

100% GLOBAL COVERAGE



PRODUCT FEATURES

VOLUME CONTROL

Speaker and ringer volume control button

RINGER

Incoming call ringer

NOISE-CANCELING

High quality microphone. Improving voice quality in noisy environments

COLOR DISPLAY

Large 4.3" TFT display supporting brightness adjustment and day/night mode themes

KEYPAD

Responsive keypad with brightness adjustment

AUDIO SPEAKER

Audio speaker supporting key beep, voice prompt, and alarms

FUNCTIONAL KEYS

Functional keys; off-hook, on-hook, navigation keys, and programmable softkeys



INTERFACES

ETHERNET

Ethernet LAN (RJ45). Connectivity for data, voice (SIP), service and maintenance

CHASSIS GROUND

Chassis ground connector

ANTENNA

Coaxial type-N conn. (female). One cable solution supporting power and communication to the antenna

SIM CARD

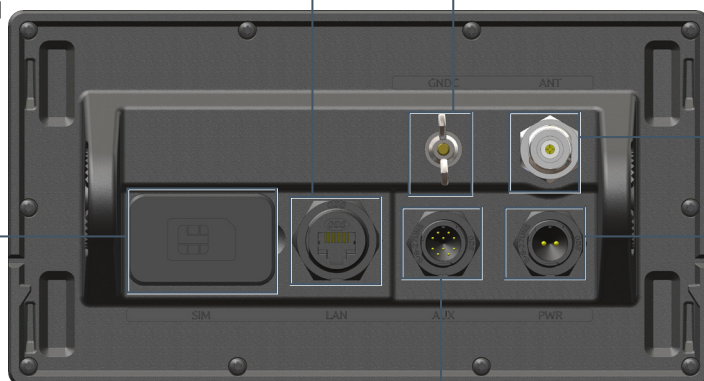
SIM card behind rubber dust cover for easy insertion and replacement

AUXILIARY

Auxiliary (10-pin) supporting RS-422, radio silence, and external ringer

POWER

Input voltage: 10 – 32 VDC

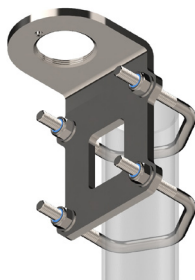


INSTALLATION OPTIONS

ANTENNA MOUNTING KITS

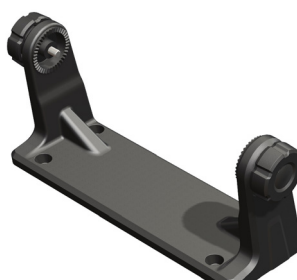


Pole Mount (1.5" tube), Antenna Unit



Bracket Mount (1.5" to 2.5" tube), Antenna Unit

CONTROL UNIT MOUNTING KITS

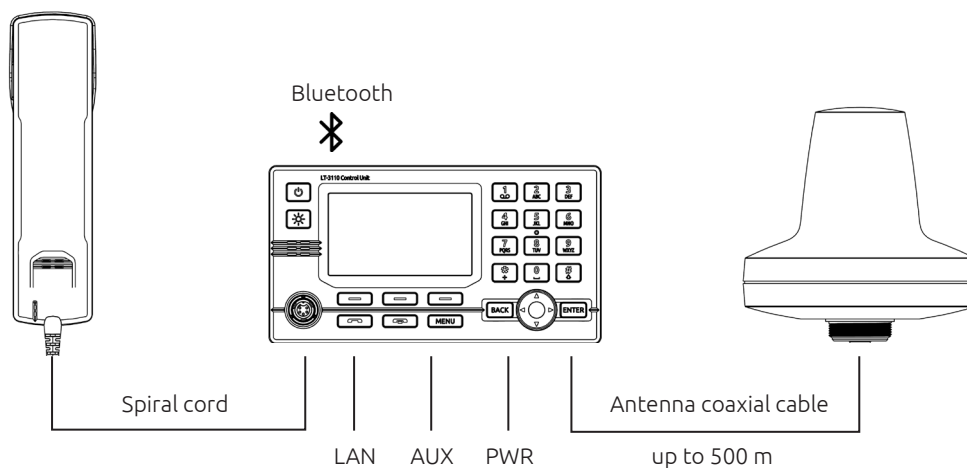


Bracket Mount, Control Unit



Flush Mount, Control Unit

SYSTEM CONFIGURATION



SPECIFICATIONS

LT-3100 SATELLITE COMMUNICATIONS SYSTEM

Certification & standards

Maritime CE, FCC, IC, RCM, RoHS 2, Iridium®

Vibration, operational

IEC 60945 (sine) & proprietary
Maritime Random profile

Vibration, survival

Proprietary Maritime Random profile

Vibration, shock

Proprietary Maritime profile (20 g, 11 ms)

Power consumption: operating mode, max

37 W

Power consumption: standby mode, max

21 W

Power consumption: sleep mode, max

0.08 W

Compass Safe Distance, std.

0.85 m (2.8 ft)

Compass Safe Distance, steer.

0.65 m (2.1 ft)

LT-3110 Control Unit

Weight

658 g (1.45 lbs)

Dimensions

224.0 x 120.0 x 70.0 mm (8.82 x 4.72 x 2.76 in)

Temperature, operational

-15°C to +55°C (+5°F to +131°F)

IP rating, dust and water

IP 32

Interfaces

Ethernet, auxiliary, DC input, chassis ground
Antenna Unit (N conn.), Handset, Bluetooth,
SIM card

Input voltage

10 - 32 VDC

LT-3120 Handset

Weight

290 g (0.64 lbs)

Dimensions

208.8 x 52.8 x 38.2 mm (8.22 x 2.08 x 1.50 in)

Temperature, operational

-15°C to +55°C (+5°F to +131°F)

IP rating, dust and water

IP32

LT-3130 Antenna Unit

Weight

687 g (1.51 lbs)

Dimensions

151.1 x Ø 149.5 mm (5.95 x Ø 5.89 in)

Temperature, operational

-25°C to +55°C (-13°F to +131°F)

IP rating, dust and water

IP67

Interfaces

Control Unit (N conn.)

Antenna communication cable

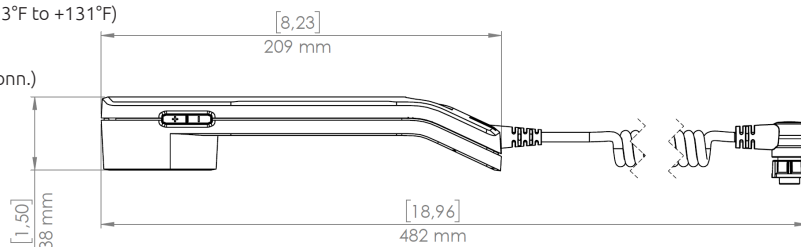
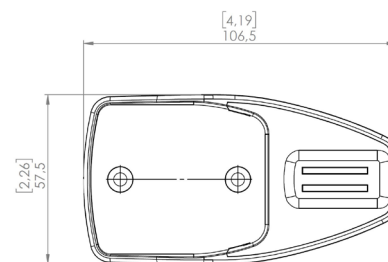
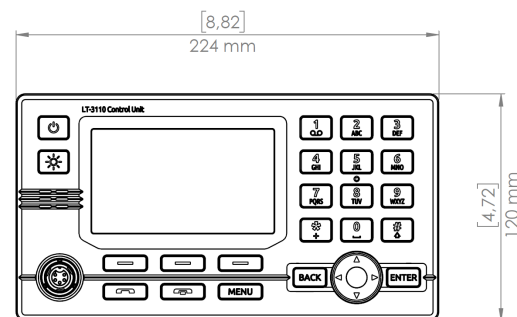
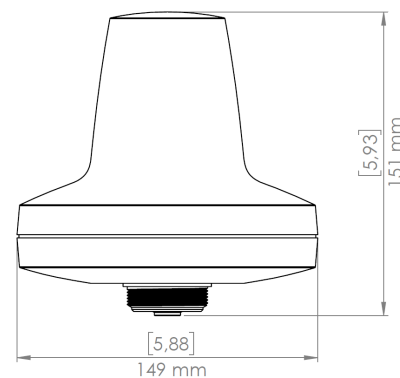
Coaxial cable, up to 500 m (1500 ft)

Warranty

2 year

Maintenance

None



IN THE BOX

LT-3110 Control Unit

P/N: 51-100987

LT-3120 Handset

P/N: 51-100988

LT-3121 Cradle

P/N: 51-101181

LT-3130 Antenna Unit

P/N: 51-100989

Bracket Mount, Control Unit

P/N: 91-100771

Power Cable, 3m

P/N: 91-100767

User & Installation Manual

P/N: 95-100765

ACCESSORIES

Flush Mount, Control Unit

P/N: 91-100772

Bracket Mount (1.5" to 2.5" tube), Antenna Unit

P/N: 91-100773

Pole Mount (1.5" tube), Antenna Unit

P/N: 91-100774

Aux Cable, 3m

P/N: 91-100768

Coaxial Cable Ø4.9mm, 10m and 25m

Coaxial Cable Ø10.3mm, 10m, 25m, and 50m

Crimping Tool for Coaxial Cable Ø4.9mm and Ø10.3mm



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