

# LT-3100S GMDSS SYSTEM

*Designed and built for the demanding and rough environment at sea. The LT-3100S GMDSS System is the new solution for GMDSS Distress and Safety communication via satellite. In early 2020, Iridium launched its GMDSS services and operation. Being recognized by the IMO and the SOLAS convention, it is much more than an alternative to other GMDSS solutions, offering 100% global coverage and built-in Safety Voice.*

The LT-3100S GMDSS System is fulfilling the new MED directive with Wheel Mark approval. Small and compact. No requirements for either message terminal or printer. The solution not only offers GMDSS services but also Voice, SMS, and Data. The built-in GNSS/GPS receiver supported features like tracking. Interface for BAM and ECDIS. The Antenna Unit can be installed up to 500 meters from the Control Unit.

The standard LT-3100S GMDSS terminal is offered in a version that includes control unit & bracket mount, handset & cradle, antenna unit & power cable. The standard version fulfills all the GMDSS basic requirements. Additional services like SSAS, GMDSS Alarm Panels and printer, require the LT-3140S Interface Unit.

- 100% global GMDSS coverage
- Distress Alert & Safety Voice
- Maritime Safety Information (MSI)
- BAM & ECDIS interface
- SSAS & LRIT
- Voice, SMS & Data
- Up to 500 m antenna cable



## LT-3140S Interface Unit Supports

- GMDSS Alarm Panels
- GMDSS Printer
- SSAS alarm & test buttons
- ECDIS
- Bridge Alert Management (BAM)
- Maintenance PC



## Features

### Distress Alert

Distress Alert can be activated by pushing the DISTRESS button on the front of the control unit. A Distress Alert message will be sent to the Iridium GMDSS Gateway (IGS) and immediately forwarded to the Rescue Coordination Center (RCC).

|  |                       |   |
|--|-----------------------|---|
| 2019-09-11 09 06                                       |                       | 📶 |
| 55°49.153N 012°29.290E                                 |                       |   |
| <b>Distress Alert Activated</b>                        |                       |   |
| Distress Alert Status                                  | Delivered             |   |
| Nature of Distress                                     | Undesignated distress |   |
| RCC Name   | STAVANGER             |   |
| RCC Location   | NORWAY                |   |
| <hr/> <span>Call RCC</span> <span>Select Nature</span> |                       |   |

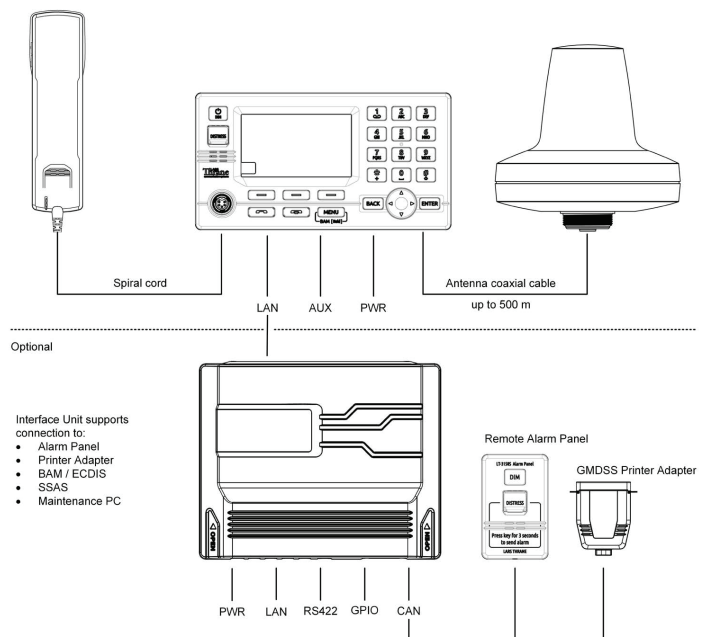
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## Safety Voice

The LT-3100S GMDSS System supports both Safety Voice (priority) and Standard Voice (non-priority). The terminal can be configured to automatically setup a Safety Voice call (priority: Distress) to the RCC, if the Distress button has been activated.



## System Configuration



## In The Box

|                             |               |
|-----------------------------|---------------|
| LT-3110S Control Unit       | P/N 51-101812 |
| 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 91-102118 |
| User & Installation Manual  | P/N 95-101817 |

## Accessories

|   |               |
|---|---------------|
| LT-3140S Interface Unit                         | P/N 51-101814 |
| LT-3150S Alarm Panel                            | P/N 51-101815 |
| LT-3160S Printer Adapter                        | P/N 51-101816 |
| 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 Ø10mm, 10m, 25m and 50m           |               |

# LT-3100S GMDSS SYSTEM

Certification & standards Maritime CE, FCC, ISED, RCM, RED, MED (Wheel Mark), RoHS 2, Iridium®

## LT-3110S Control Unit

|                           |  |
|---------------------------|--|
| Weight                    | 658 g (1.45 lbs)   |
| Temperature, operational  | -15°C to +55°C (+5°F to +131°F)  |
| IP rating, dust and water | IP32   |
| Interfaces                | Ethernet, auxiliary, DC input, chassis ground, Antenna Unit (N conn.), Handset, SIM card |
| Input voltage             | 12 – 24 VDC  |

## LT-3120 Handset

|                           |                                 |
|---------------------------|---------------------------------|
| Weight                    | 290 g (0.64 lbs)                |
| 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)                     |
| Temperature, operational    | -40°C to +55°C (-40°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) |

## LT-3140S Interface Unit

|                           |  |
|---------------------------|--|
| Weight                    | 720 g (1.59 lbs)   |
| Temperature, operational  | -15°C to +55°C (+5°F to +131°F)                                      |
| IP rating, dust and water | IP10   |
| Interfaces                | 4 x Ethernet, 2 x RS422, 4 x GPIO, 4 x CAN, DC input, chassis ground |
| Input voltage             | 12 – 24 VDC  |

## LT-3150S Alarm Panel

|                           |                                 |
|---------------------------|---------------------------------|
| Weight                    | 68 g (0.15 lbs)                 |
| Temperature, operational  | -15°C to +55°C (+5°F to +131°F) |
| IP rating, dust and water | IP32                            |
| Interface                 | CAN                             |
| Warranty                  | 2 year                          |
| Maintenance               | None                            |

