

# Iridium Network LT-3100S System

Electrotech Australia

## LT-3100S GMDSS System Overview New GMDSS Standard & Requirements LT-3100S GMDSS System:

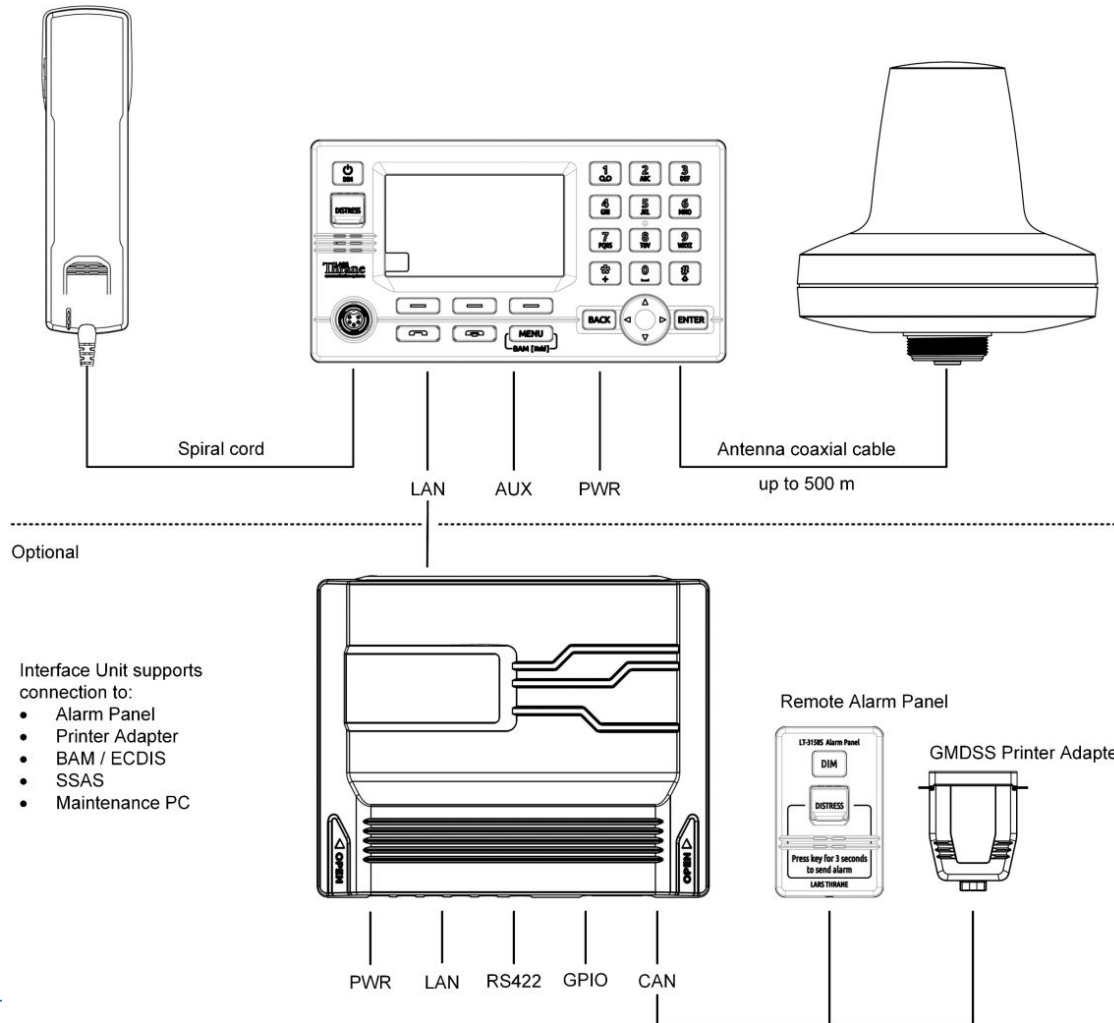
- System Units & Installation
- GMDSS SIM Card & Activation
- GMDSS Services
- Non-GMDSS Services
- Specifications



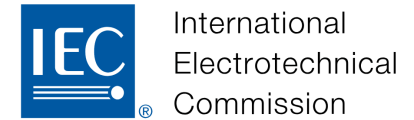
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# Iridium Network LT-3100S System

## LT-3100S GMDSS System Wiring



## New GMDSS Standards & Definitions



### What?

- IEC (The International Electrotechnical Commission) is a worldwide organization for standardization
- In 2019 IEC issued a new standard & definitions for GMDSS satellite communication: **IEC 61097-16**

### Old Definition for SES ( Ship Earth Station):

“INMARSAT C ship earth stations (SES)”

### New Definition for SES ( Ship Earth Station):

“Ship earth stations (SES) intended for operation in mobile satellite systems and services which are recognized by IMO”

In 2019 Iridium was recognized by IMO as GMDSS Service Provider



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## New IEC standards for SES (Ship Earth Station) equipment §4.7:

*For the presentation of received distress and urgency alerts/calls intended as text to be read, the equipment shall include or interface to either:*

- 1. an integrated printing device; or*
- 2. a **dedicated display device, printer output port and a non-volatile message memory**; or*
- 3. a connection to a navigation system and a non-volatile message memory*

- LT-3100S GMDSS System offers “**dedicated display**”, “**printer output**” and “**non-volatile message memory**”



International  
Electrotechnical  
Commission



# LT-3100S System: Requirements for GMDSS

Sea Area	VHF DSC 1	VHF DSC 2	MF DSC	MF/HF DSC incl. HF telex	SES 1 Iridium/ Sat C	SES 2 Iridium/ Sat C	Navtex Epirb/Sart Port. VHF
A1	X						X
A2	X		X				X
A3	X	X	X	X	X		X
A3 Sat	X	X	X		X	X	X
A4	X	X	X	XX	X		X

Existing Requirements

New Arrangement



# LT-3100S GMDSS System - basic

## In The Box:

- LT-3110S Control Unit
- LT-3120 Handset / LT-3121 Cradle
- LT-3130 Antenna Unit
- Bracket Mount, Control Unit (incl. knobs and 4 x A4 self cutting screws)
- Power Cable, 3m
- 4 x Unit Test Sheets
- LT-3100S User & Installation Manual



# LT-3100S GMDSS Functionality

## GMDSS functionality:

- Distress Alert / Call
- Maritime Safety Information (MSI)
- Safety Calling
- Safety Messaging
- Bridge Alert Management (BAM)
- Navigational (NAV) interface
- Terminal Test

2020-08-05 12:07 UTC  
55°49.151N 012°29.291E

**Distress Activated**

Distress Alert Status	Delivered
Call Status	Call pending
Nature of Distress	Undesignated distress
RCC Name	Norfolk
RCC Country	United States

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Select Nature Cancel Distress

2020-08-05 12:07 UTC  
55°49.152N 012°29.292E

**Distress Activated**

Distress Alert Status	Delivered
Call Status	Connecting
Nature of Distress	Undesignated distress
RCC Name	Norfolk
RCC Country	United States

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Select Nature Cancel Distress

2020-08-06 09:21 UTC  
55°49.152N 012°29.291E

No. 0007 MSI - Active 17:35

Priority	Class	Area	Cancel By
URGENCY	SAR	-	2020-08-06 10:20

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Details Show Unread Update

2019-11-11 13:19  
55°49.153N 012°29.290E

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- Distress Rx**  
Incoming distress. Check GMDSS display
- Lost position**  
Check GMDSS terminal for lost position

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