

LT-3100S GMDSS System



LT-3100S GMDSS System - basic



Consists of:

- LT-3110S Control Unit
- LT-3120 Handset (+ Cradle)
- LT-3130 Antenna Unit
- Power Cable
- User & Installation Manual

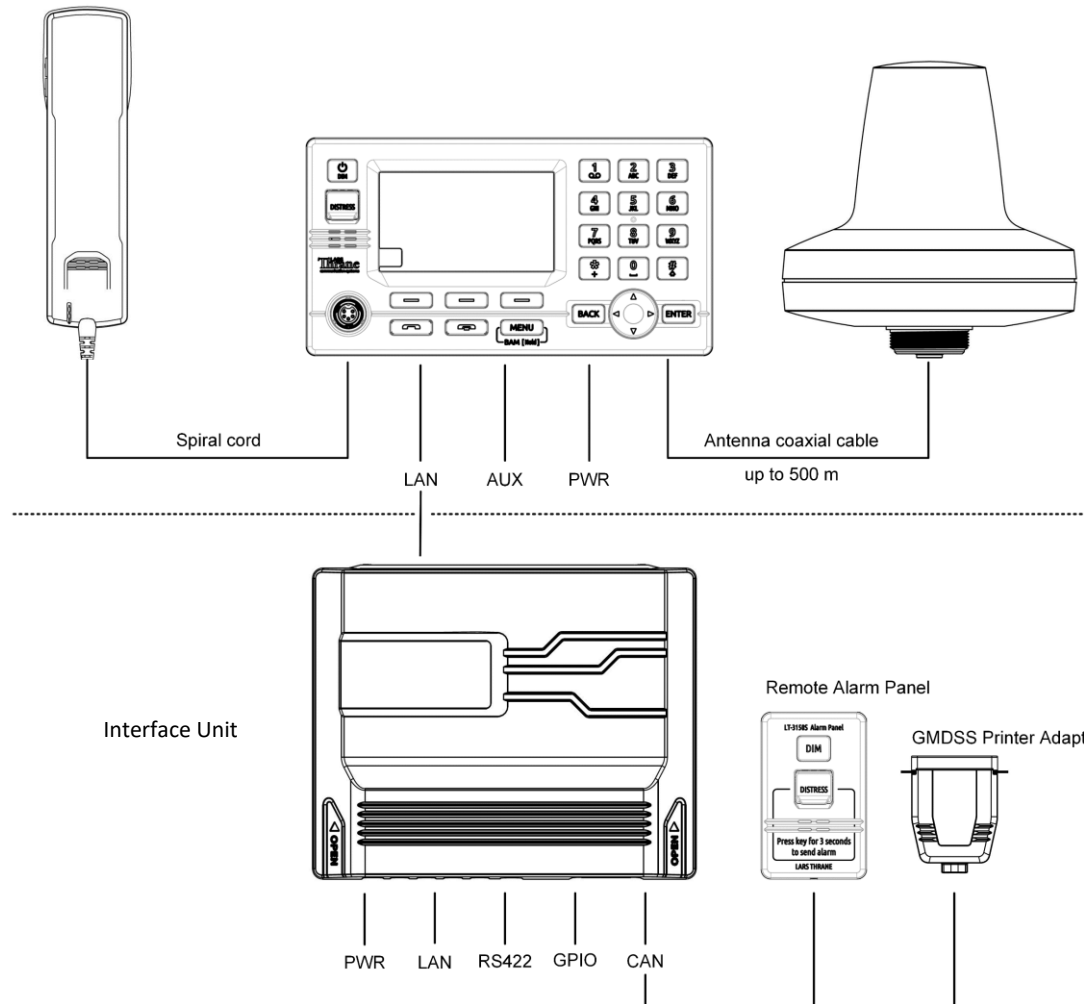
LT-3100S GMDSS System - Accessories

Consists of:

- LT-3140S Interface Unit
- LT-3150S Alarm Panel
- LT-3160S Printer Adapter
- SSAS Alarm & Test buttons



LT-3100S GMDSS System Wiring



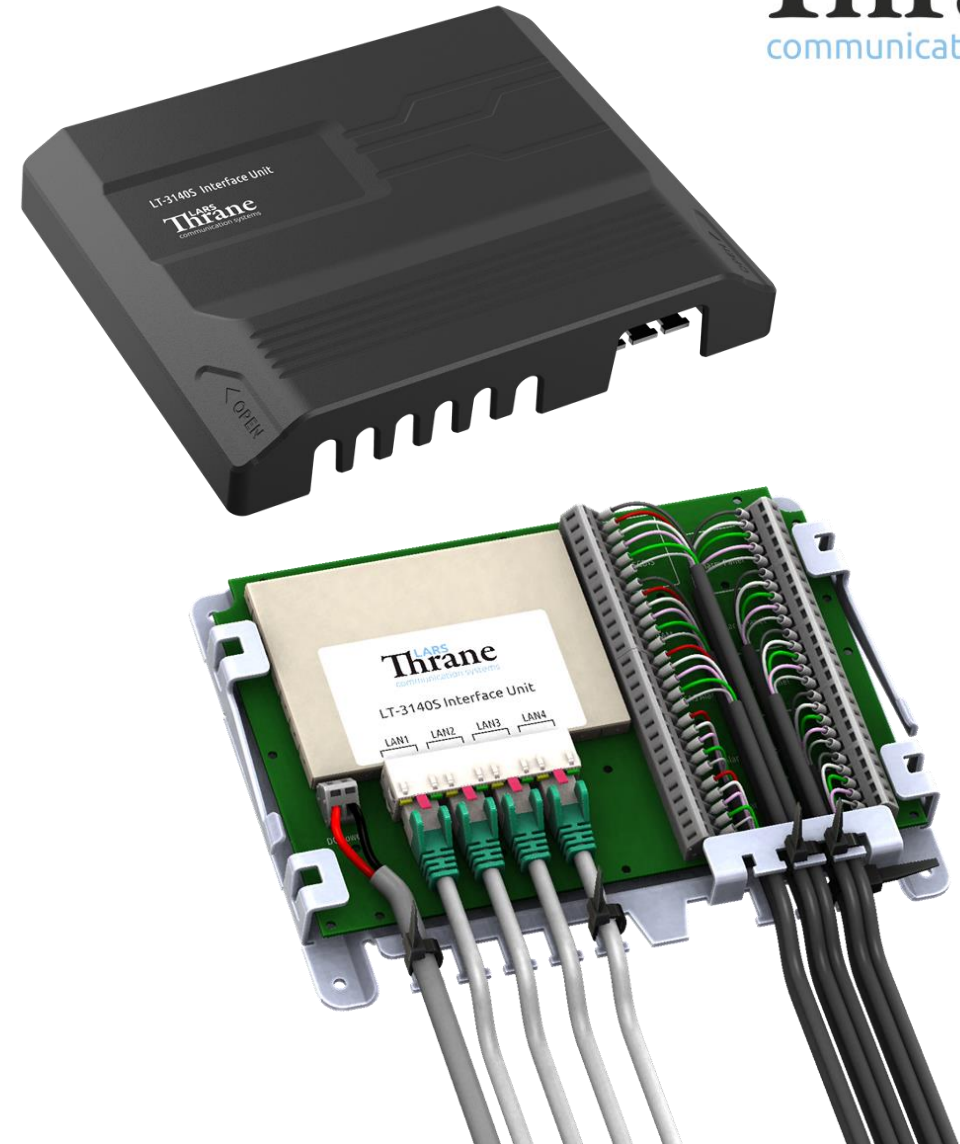
Basic System

Optional

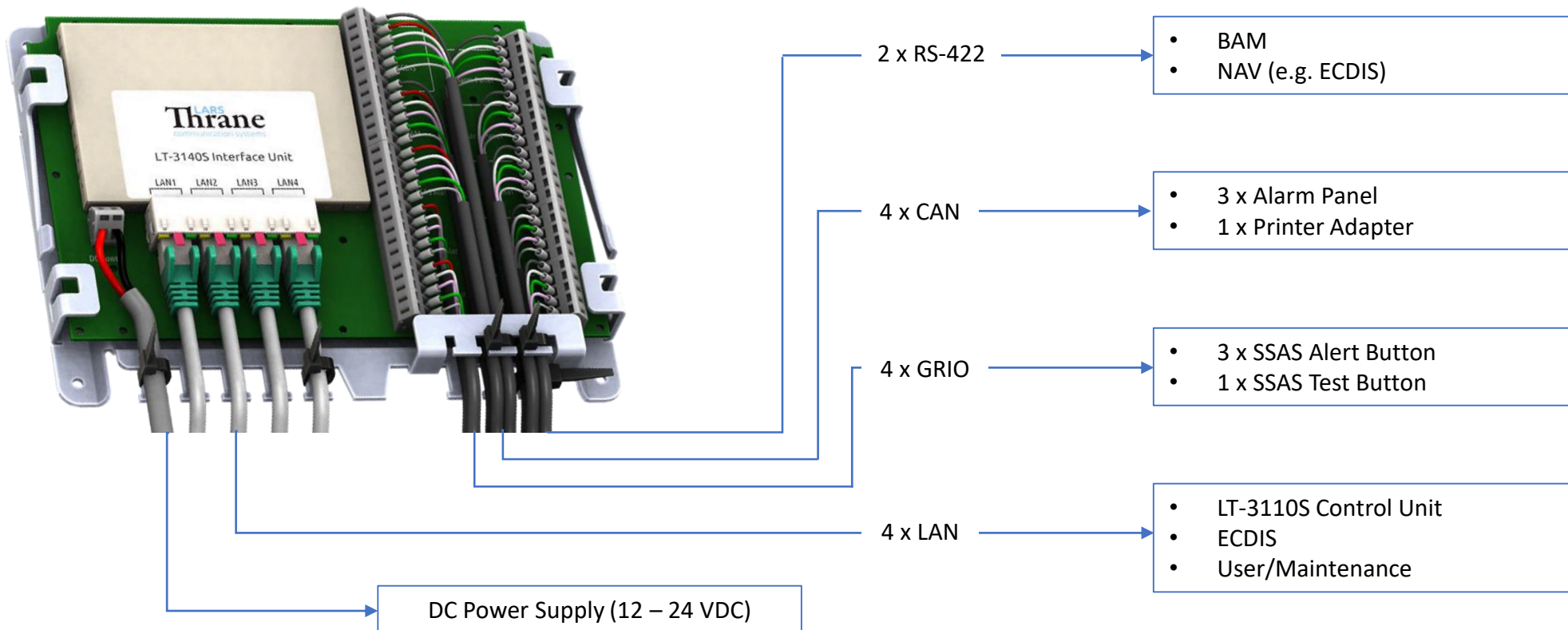
LT-3140S Interface Unit

Interfacing to:

- Control Unit
- Alarm Panels
- GMDSS Printer
- SSAS Buttons
- Bridge Alert Management (BAM)
- Navigational interface (NAV)
- PC
- DC Power Supply



LT-3140S Interface Unit



LT-3100S GMDSS Functionality

GMDSS functionality:

- Distress Alert
- Distress Alert Relay
- Distress Call
- Maritime Safety Information (MSI)
- Safety Messaging (to/from RCC)
- Safety Calling (to/from RCC)
- Bridge Alert Management (BAM)
- Navigational (NAV) interface
- Alarm Panel
- Printer Adapter

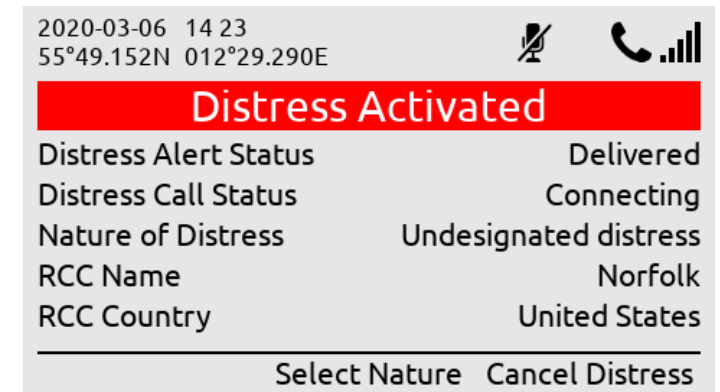
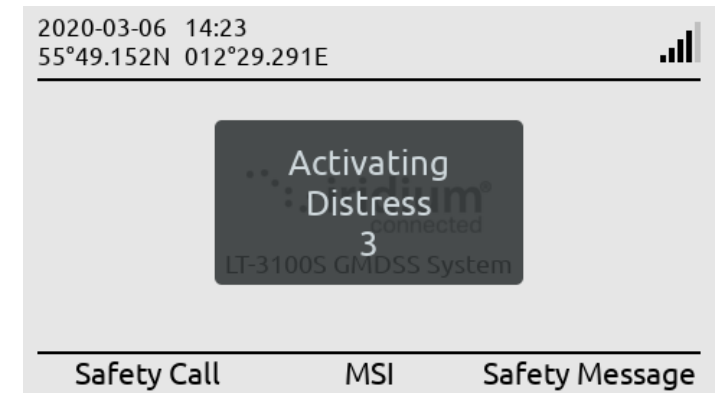
Non-GMDSS functionality:

- Ship Security Alert System (SSAS)
- Long-Range Identification & Tracking (LRIT)
- LT-3100 system functionality

DISTRESS – how does it work?

In case of DISTRESS:

- Push the DISTRESS alert button in three seconds to activate Distress Alert
- Distress Alert Activated
- Distress Alert Delivered
 - Incl. ship's position & identification
- The terminal automatically calls the RCC
- Voice connection between vessel and RCC within 30 seconds



Existing Requirements for GMDSS

Sea Area	VHF DSC 1	VHF DSC 2	MF DSC	MF/HF DSC incl. HF telex	SES 1 Sat C	SES 2 Sat C	Navtex Epirb/Sart Port. VHF
A1	X						X
A1-2	X		X				X
A1-3	X	X	X	X	X		X
A1-3 Sat	X	X	X		X	X	X
A1-4	X	X	X	X X	X		X

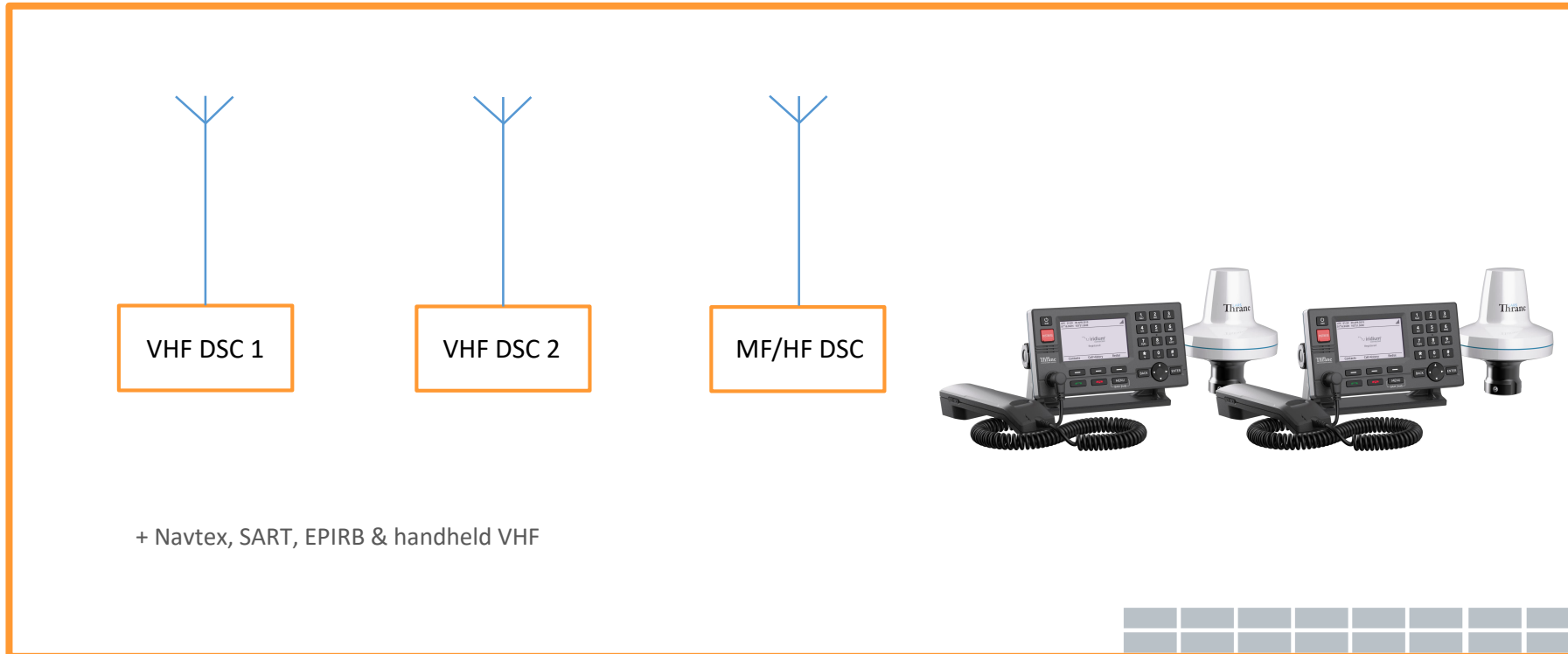
Requirements for all merchant vessels > 300 BRT & all passenger vessels in any size in international waters.

New 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
A1-2	X		X				X
A1-3	X	X	X	X	X		X
A1-3 Sat	X	X	X		X	X	X
A1-4	X	X	X	XX	X		X

Requirements for all merchant vessels > 300 BRT & all passenger vessels in any size in international waters.

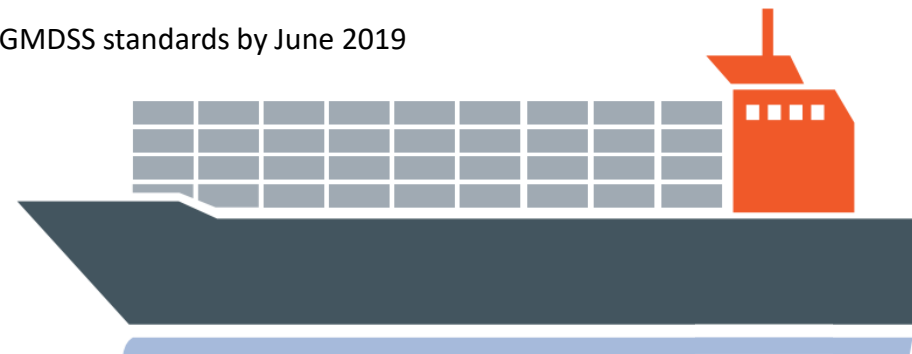
Future A3 Iridium GMDSS Solution



GMDSS - comparison of systems

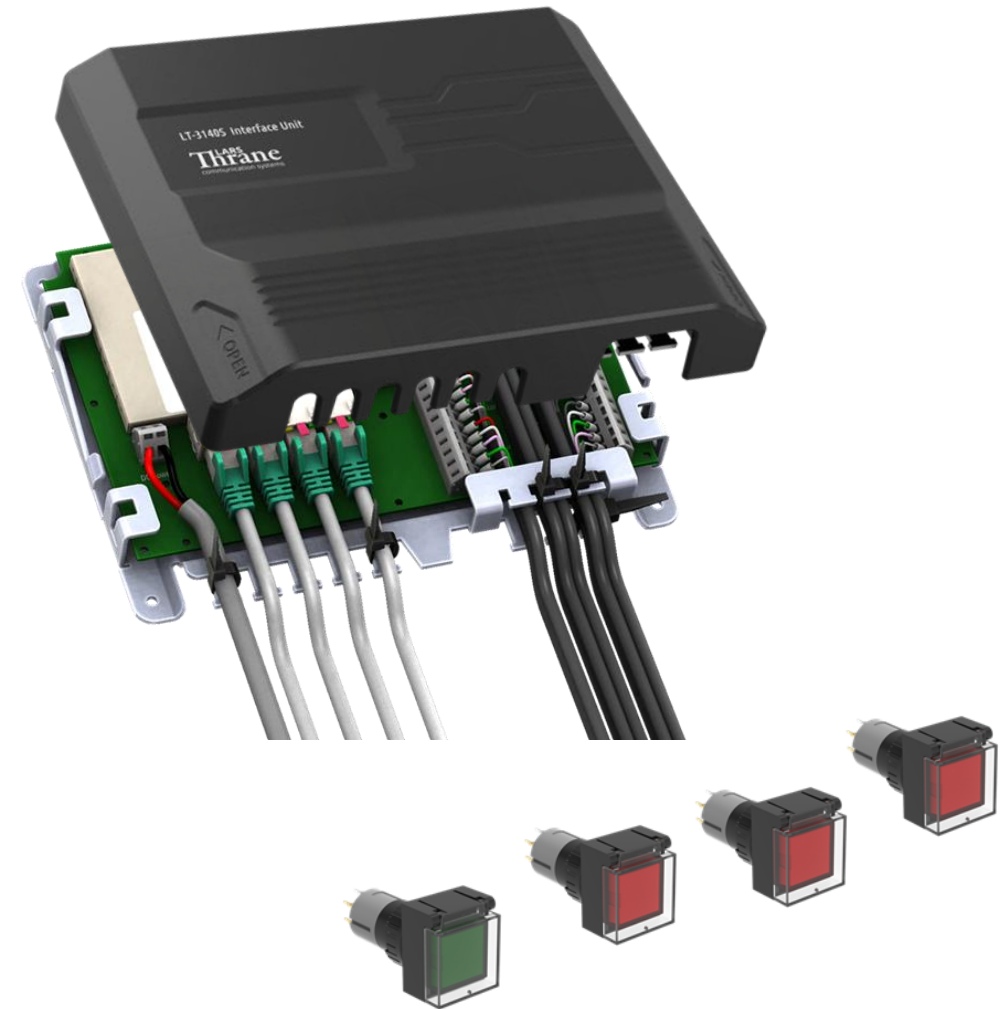
	Iridium GMDSS	Sat C
Coverage	100% Global	70° south to 70° north
Voice Alert	Yes	No
Message Terminal	Not required *	Required
Printer	Not required *	Required
Printer Adapter	Available	Not required

* According to new IEC 61097-16 GMDSS standards by June 2019



LT-3100S GMDSS System - SSAS

- Supports SSAS via the Interface Unit
 - 1 x test button (**green**)
 - 3 x alert button (**red**)
- The wiring is identical to Sat-C
- SSAS Kit includes:
 - LT-3140S Interface Unit
 - 2 x Alert Button (incl. 50m cable)
 - 1 x Test Button (incl. 50m cable)
- SSAS functionality will be supported in a software update, after FCS



LT-3100S GMDSS System - LRIT

- LT-3100S GMDSS System – Basic – supports LRIT
- The LRIT (Long Range Identification & Tracking) functionality is based on the Iridium SBD-service
- The LRIT functionality will be supported in a software update, after FCS



LT-3100S GMDSS Delivery Plan

- Expected First Customer Shipment in Summer 2020
- Accepted new orders for LT-3100S GMDSS and accessories since December 2019
- Price list available



LARS
Thrane
communication systems