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Intellian's Iridium Certus® 200 GMDSS Systems

iridium® connected

- COMMERCIAL
- CRUISE
- FERRY
- YACHTING
- FISHING

Intellian are developing a shipboard GMDSS system based on Intellian's C200M Iridium Certus® terminal. As required by SOLAS, all the core components and accessories will be MED approved (Wheelmarked).

Intellian's Iridium Certus GMDSS systems are part of a wider portfolio of modern, coherently designed, GMDSS equipment including VHF Class A, MF/HF Class A and NAVTEX.

Key Features

- 100% Global Coverage
- SOLAS approved (MED/Wheelmark)
- 7" IPS TFT Full Touch Screen
- Auto & Manual Dimming Function
- Safety Voice, Safety Messaging and MSI
- Distress Alert & Distress Call
- Supports non-emergency communications
- Intuitive, User-Friendly Graphic Design
- SSAS & LRIT functions
- Full set of accessories including power supply and optional keyboards

C200M GMDSS: Truly Global Service

Experience guaranteed safety with the C200M GMDSS, an Iridium satcom product providing 100% global coverage for all SOLAS vessel GMDSS requirements. This system proudly meets the new IEC 61097-16 (2019) GMDSS standard and is MED / Wheelmark approved, affirming its robust and compliant performance worldwide.

One Terminal: Daily comms to Distress Calls

Both the C200M and the C700 may be configured to deliver GMDSS solution as well as providing non-emergency comms. A single terminal could be used for SOLAS GMDSS and act as a VSAT companion.
It includes Distress Alert & Safety Voice as well as Maritime Safety Information (MSI) but also supports SSAS communications and LRIT. Moreover, it can also provide routine communications either as a standalone satcom solution or as a companion terminal.

Built for Safety, Designed for the Bridge

The Safely Display Terminal (SDT) provides ship staff with direct, clear access to essential Satcom GMDSS features from the bridge console.

Its 7" IPS multi-touch screen ensures wide-angle visibility, complemented by precise auto/manual dimming for optimal operation in any light.

The intuitive user interface makes it easy to make routine voice calls and access Maritime Safety Information (MSI); but in the event of a distress event, it enables quick and easy communication with Rescue Co-ordination Centers (RCC) and nearby vessels.

Comprehensive integration

Designed for integration with the vessel's Bridge Alert Management (BAM) system and Bridge Navigation Network, including ECDIS. A printer is available as an accessory if required.

Ease of installation

The system has been designed for easy installation on both new build and in-service vessels.

A single coax antenna cable connects the BDU and ADU. The SDT can be either bracket mounted or flush mounted. There are a full set of accessories available, including a power supply, pole mounting kit, GMDSS Alarm Button, GMDSS alarm unit & optional printer/keyboards.

For retrofits there is a Universal Flush Mounting Bracket that can be used to cover the cut out in the console from the equipment being replaced.

Intellian's Iridium Certus® 200 GMDSS Systems Technical Specifications

System Configuration

C200M GMDSS SATELLITE COMMUNICATION SYSTEM

Certifications & Standards	MED (Wheelmark), MER, Maritime CE, FCC, ISED, RED, RoHS 2, Iridium®, KC
Vibration, operational	IEC 60945
Vibration, shock	Half sine 20 g/11 ms

C200M ADU

Dimension	240 x145 mm / 9.45" x 5.71"
Weight	3.5 kg / 7.7 lb
Tx Frequency	1616 MHz ~ 1626.0 MHz
Rx Frequency	1616 MHz ~ 1626.5 MHz
Antenna Gain	L2 Class
Antenna Connectors	TNC female (ADU) - TNC female (BDU)

C200M BDU

Dimension	280 x 190 x 41 mm / 11" x 7.2" x 1.45"
Weight	1.2 kg (stand alone type) / 2.6 lb
Power (max)	110 W
DC Input	10.8 ~ 30 VDC

SAFETY DISPLAY TERMINAL (SDT)

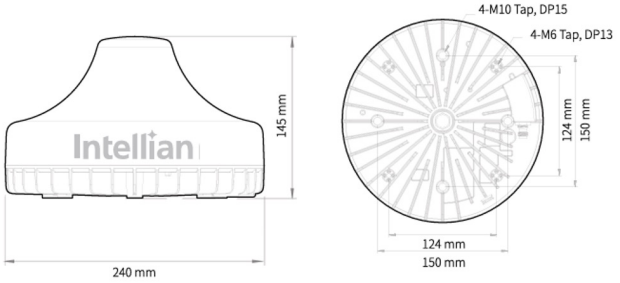
Display	7" IPS TFT Full Touch Screen (1024 x 600)
Dimension	with Bracket: 254 x 147 x 94 mm / 10" x 5.8" x 3.7" w/o Bracket: 239 x 135 x 85 mm / 9.4" x 5.3" x 3.3"
Weight	1.0 kg / 2.2 lb
DC Input	24 VDC
IP Rate	IP32
Temperature (Oper.)	-15°C to +55°C (+5°F to +131°F)
Interfaces	Ethernet x 2, RS-422 x 2, CAN, RS-232

HANDSET & CRADLE

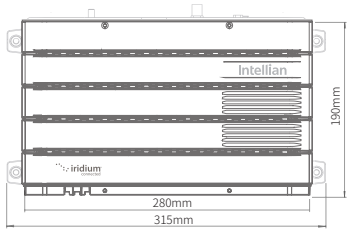
Weight (HS + wire)	0.4 kg / 0.88 lb
Dimensions	82 x 236 x 76 mm / 3.2" x 9.3" 2.99"
Temperature (Oper.)	-15°C to +55°C (+5°F to +131°F)
IP rating	IP32

System Dimension

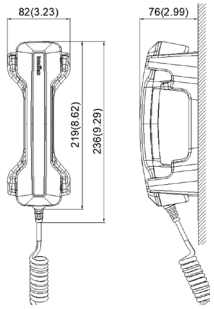
ADU



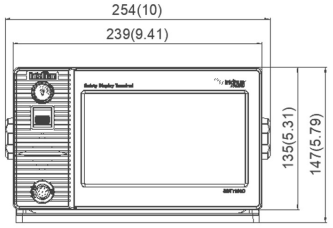
BDU

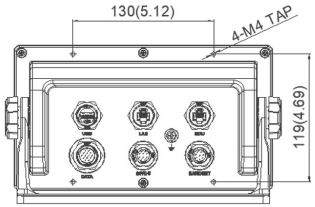


Handset & Cradle

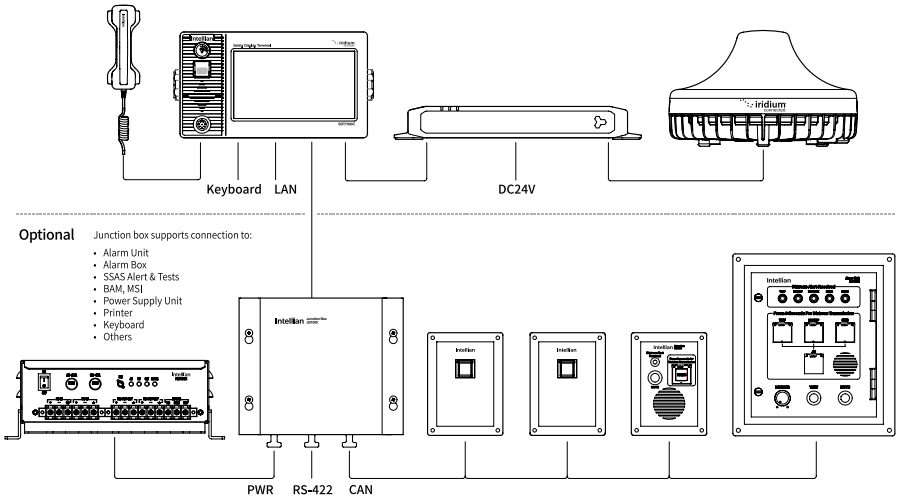


SDT (Safety Display Terminal)





System Diagram



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