

Intellian

Intellian's Iridium Certus® 100 GMDSS System



- COMMERCIAL
- CRUISE
- FERRY
- YACHTING
- FISHING

Intellian has developed a shipboard GMDSS system based on Iridium's Certus 100 and the Iridium GMDSS System. As required by SOLAS, all the core components and accessories are MED approved (Wheelmarked).

Intellian's Iridium Certus GMDSS Systems (C100M, C200M and C700) are part of a wider portfolio of modern, coherently designed, GMDSS equipment that includes a VHF Class A, MF/HF Class A and NAVTEX.

Key Features

- 100% Global Coverage (incl. poles)
- SOLAS Approved (MED/Wheelmark)
- 7" IPS TFT Full Touch Screen with Intuitive, Graphic User Interface
- Simple equipment arrangement: ADU (Above Deck Unit) connects directly to the SCU (Safety Control Unit) mounted in the GMDSS console
- Universal Pole Mount Kit included
- Supports both coax antenna cable and NMEA2000
- Auto & Manual Dimming Function
- Safety Voice, Safety Messaging and MSI
- Supports SSAS & LRIT functions
- Full set of Accessories including Power Supply and optional Keyboards

C100M GMDSS: Dedicated GMDSS System

Experience enhanced safety with the C100M GMDSS, an Iridium satcom product providing 100% global coverage (including polar regions). This system meets the new IEC 61097-16 (2019) GMDSS standard and is MED / Wheelmark approved, affirming its robust and compliant performance worldwide.

Complete GMDSS terminal

The C100M GMDSS can be configured to deliver a complete GMDSS solution. This 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.

Total Retrofit Solution

The C100M GMDSS System is designed for easy retrofitting in place of an existing Ship Earth Station terminals. If they are in good condition, the existing antenna cables used with the coax cable and the NMEA 2000 cable can be reused. Additionally, the pole mounting kit included with every system fits a wide range of pole sizes and accommodates both cable types, whether they run inside or outside the supporting pole.

The SCU can be either bracket mounted or flush mounted to the GMDSS console. A comprehensive range of accessories is available, including a power supply, GMDSS Alarm Button, GMDSS Alarm Unit and an optional printer/keyboard. Additionally, a retrofit plate is available to cover the console cutout left by the replaced equipment.

Built for Safety and for Seafarers

The Safety Control Unit (SCU) provides ship staff with direct, clear access to essential satcom GMDSS features from the GMDSS console.

Its 7" color IPS 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 MSI; but in the event of a distress, 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.



Intellian's Iridium Certus® 100 GMDSS Systems Technical Specifications



System Configuration

C100M 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

C100M ADU

Dimension	170 x 158 mm / 6.69" x 6.22"
Weight	1.6 kg / 3.5 lb
Tx Frequency	1616 MHz ~ 1626.5 MHz
Rx Frequency	1616 MHz ~ 1626.5 MHz
ADU Connectore	TNC female & NMEA 2000 (A "pigtail" accessory is available to connect the below deck end of the NMEA200 cable to the SCU)

SAFETY CONTROL UNIT (SCU)

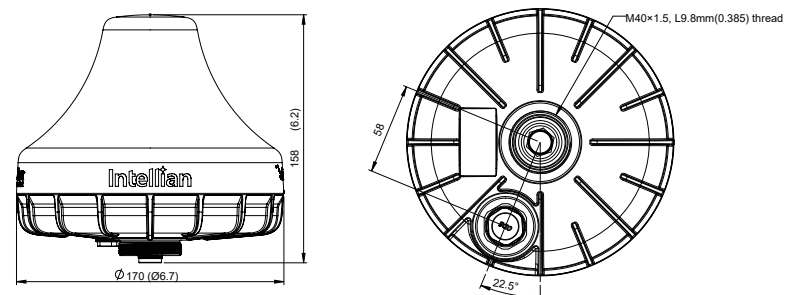
Display	7" IPS TFT Full Touch Screen (1024 x 600)
Dimension	with Bracket: 254 x 167 x 100 mm / 10.0" x 6.6" x 3.9" w/o Bracket: 239 x 155 x 100 mm / 9.4" x 6.1" x 3.9"
Weight	1.2 kg / 2.6 lb
DC Input	24 VDC
IP Rate	IP34
Temperature (Oper.)	-25°C to +55°C (-13°F to +131°F)

HANDSET & CRADLE

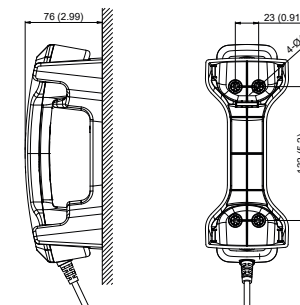
Weight (HS + wire)	0.4 kg / 0.88 lb
Dimensions	82 x 236 x 76 mm / 3.2" x 9.3" x 2.99"
Temperature (Oper.)	-15°C to +55°C (+5°F to +131°F)
IP rating	IP32

System Dimension

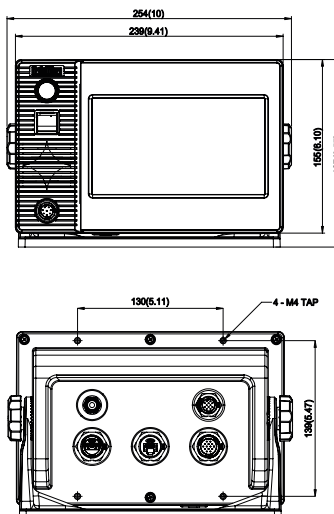
ADU



Handset & Cradle



SCU (Safety Control Unit)



System Diagram

