Intellian

C700

IRIDIUM CERTUS®
Maritime Terminal

FEATURES

THE MOST POWERFUL IRIDIUM CERTUS TERMINAL AVAILABLE

The Intellian C700 maritime satellite terminal's unique hemispherical 12-patch phased array antenna delivers excellent low-elevation-angle RF efficiency so that the RF performance of the C700 is better than any other terminal in the market. Further, as the H2 amplifier has been implemented, the terminal can deliver the full 352 kpbs uplink speed as well as the downlink speed of 704 kpbs. Being connected to the Certus network of Low-Earth Orbit (LEO) satellites means that you can communicate globally, pole-to-pole.

BEST-IN-CLASS FEATURES AND VALUE

The C700 offers a variety of features such as supporting three high-quality, low-latency voice lines simultaneously, a built-In firewall, automatic switching between satellite and Wan(e.g. 3G/LTE modem) connection, and soft PABX. These technical capabilities and GMDSS readiness make it ideal for both vessel operations and crew welfare services.

Designed for easy installation and configuration, combined with Intellian's ability to ship from global logistics centers results in lower costs for customers and greater flexibility. Customers can also rely on the industry-leading 3-year warranty policy and global service partners to ensure dependable communications no matter where they operate.

A PERFECT VSAT COMPANION

The advanced performance of the C700 provides customers across all markets the flexibility to deploy the C700 as the primary communication antenna or as a companion to a VSAT system for seamless redundancy. The Aptus platform also offers advanced remote support and diagnostics, making it an ideal VSAT out-of-band management solution.

SYSTEM HIGHLIGHTS

- Static 12 element patch phased-array antenna with beam switching capability
- H2 class antenna amplifier to fully support 704/352 Kbps service profile
- Excellent low elevation angle performance down to -7° elevation, equivalent to 15° ship motion
- Easy installation with single coax cable for power and data
- AptusLX easy-to-navigate dashboard for PC, tablet and smart phone
- Built-in firewall, port forward and user access management
- GMDSS ready
- Three simultaneous high quality voice lines
- Wi-Fi and 4-port Ethernet switch with PoE support
- Connect up to 16 IP and 2 analog phones with Soft PBX function
- Designed for minimum 10-year operational lifetime
- 3 year global warranty - parts and labor

Mackay
Marine Electronics & Satellite Communications
www.mackaymarine.com

C700	CODE
Standard	C1-70-A00S
ITEMS	ADU, BDU, Coaxial cable (25m / 82ft) DC power cable, Ethernet cable, Wi-Fi antenna

Rack Type	C1-70-A00R
ITEMS	Standard plus: AC/DC power adaptor, 19" rack mounting bracket

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IRIDIUM SERVICES

Voice	3 simultaneous HD voice lines
IP Data (Background)	**Uplink:** up to 352 Kbps / **Downlink:** up to 704 Kbps
Short Burst Data	Yes

PHYSICAL

ADU Dimensions	370 x 270 mm / 14.5" x 11.0"
ADU Weight	7.3 kg / 16 lb
BDU Dimensions	280 x 190 x 41 mm / 11" x 7.2" x 1.45"
BDU Weight	1.2 kg (stand-alone type) / 2.6 lb

POWER

DC Input	10.8 ~ 30 V DC
Power (max)	120 W

RF / ANTENNA

Tx Frequency	1616 MHz ~ 1626.0 MHz
Rx Frequency	1616 MHz ~ 1626.5 MHz
Antenna Gain	HGA 2 Class
Antenna Connectors	TNC female (ADU) – TNC female (BDU)
GNSS	GPS, GLONAS, Galileo
Wi-Fi	802.11 b/g

APPROVAL

Certification	CE/RED, FCC

ENVIRONMENTAL CONDITIONS

|	
Operating Temp. range	**ADU:** -25°C ~ + 55°C, **BDU:** -15°C ~ + 55°C
Operating Humidity range	More than 95%
Water Ingress	**ADU:** IP56, **BDU:** IP31
Shock & Vibration	**Shock:** IEC60068-2-27 (operation), IEC60721-3-6 Class 6M3 (survival) **Vibration:** IEC60945 (operation), IEC60721-3-6 Class 6M3 (survival)

I/O

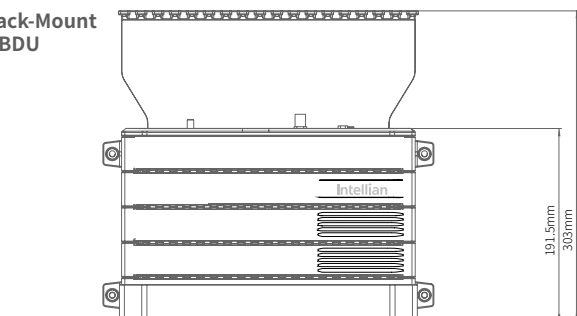|	
LAN	3 x RJ45 (2 PoE)
WAN	1 x RJ45
Analog Phone	1 x RJ14 (2 x Analog Phone)
Wireless	1 Wi-Fi (SMA RP)
I/O	10 pin GPIO
Etc.	SIM, Reset, On/Off, Ground

SYSTEM DIMENSION

ADU
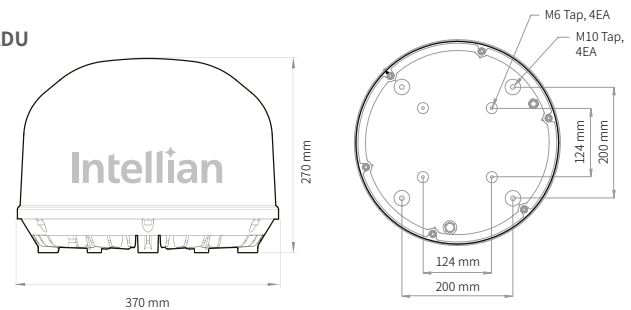
Stand-Alone Type BDU
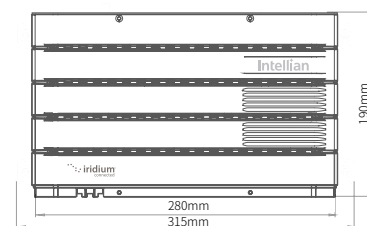
19"Rack-Mount Type BDU

SYSTEM DIAGRAM

Single Coaxial Cable

10.8 - 30 V DC

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