Intellian

C700

Iridium Certus^{SM} Maritime Terminal

3 YEAR
PARTS + LABOUR
GLOBAL WARRANTY

The Most Powerful Iridium Certus Terminal Available

The Intellian C700 maritime satellite terminal connects to the Iridium NEXT network of 66 Low-Earth Orbit (LEO) satellites, providing pole-to-pole communication. Using the Iridium Certus service, the Intellian C700 provides three high-quality voice lines and the highest IP data speeds among L-band terminals of up to 704 Kbps.

A Perfect VSAT Backup Solution

Intellian is the No. 1 maritime VSAT manufacturer and market leader. All Intellian C700 terminals are optimized as VSAT companion devices. The combination of the traditional Intellian's VSAT Ku-band and Intellian's new C700 systems will guarantee a seamless connection wherever you are. Easy APIs for M&C, firewall security, and will easily integrate as part of a VSAT out-of-band management solution.

Best-in-Class Antenna Performance

The 12-element patch antenna improves low elevation angle performance. This innovative electronic phased-array antenna guarantees a reliable and high-throughput connection in all conditions. Also, the H2 class high power amplifier enables up-link data speeds of up to 352 Kbps as standard.
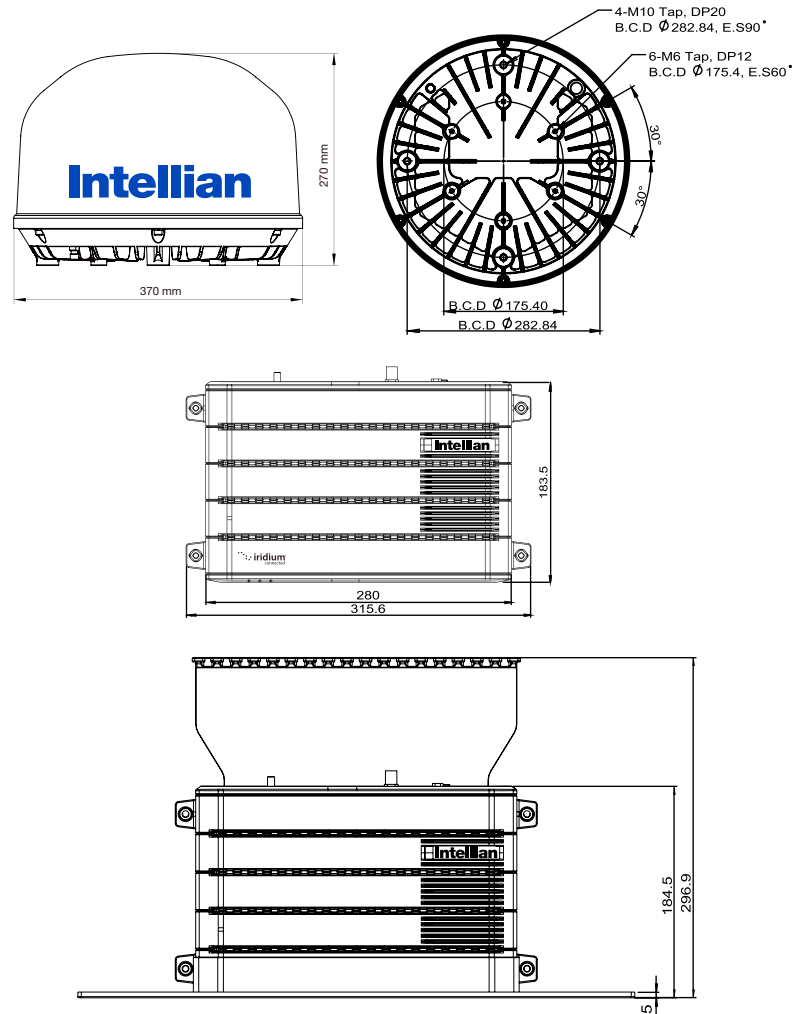
System Highlights

- Powerful 12 Element Patch Phased-Array Antenna

- H2 Antenna Amplifier for 352 Kbps service

- Enhanced low elevation angle antenna performance guarantees the most reliable and high throughput in rough seas

- Easy installation and simple configuration

- Cyber Security Enhanced
  – Built-in Firewall and User Threat Management

- Single Coaxial Cable Antenna Connection

- Solid-State Reliability

- 3-Year Global Warranty - Parts and Labour

- Designed for a 10-year minimum operational lifetime

- Lower Total Cost of Ownership

- GMDSS Ready

- DHCP Server embedded

- Three high quality voice lines with Soft PBX function

- 4-Port Ethernet (LAN) PoE and WAN

- Simultaneous IP connection for up to 16 SIP handsets

C700 New Iridium Certus Terminal for Iridium NEXT

▌Technical Specifications

Iridium Services

Voice	3 simultaneous HD voice lines
IP Data (Background)	**Uplink:** up to 352 Kbps **Downlink:** up to 704 Kbps
IP Streaming	Uplink/Downlink: up to 256 Kbps
Short Burst Data	Yes

Physical

ADU Dimensions	370 x 270 mm / 14.5" x 11.0"
ADU Weight	8 kg / 17.6 lbs.
BDU Dimensions	280 x 183.5 x 41 mm / 11" x 7.2" x 1.45"
BDU Weight	3.5 kg (stand-alone type) / 7.7 lbs.

Power

DC Input	10 ~ 32 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, Beidou
Wi-Fi	802.11 b/g

Approval

Type Approval	CE/RED, FCC
Certifications	Iridium

Environmental Conditions

Operating Temp. range	-25°C ~ + 55°C (ADU) -15°C ~ + 55°C (BDU)
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

Ethernet/WAN	RJ45 (4)
Phone	RJ14 (1)
Wireless	1 Wi-Fi (SMA female)
I/O	10 pin GPIO
Etc.	SIM, Reset, On/Off, Ground, USB (2)

▌System Dimension

▌System Diagram

Single Coaxial Cable