Intellian GX100

1m Global Xpress Terminal

Maritime Connectivity Made Simple

Intellian and Inmarsat have partnered to deliver a high-speed connectivity solution as easy to adopt as Fleet Broadband. Easy, standardized equipment. Single global network. Intuitive User Interface.

All in One Below Deck Terminal

Features a built in GX modem for simplified installation and reduced overall space requirements. Wi-Fi enabled for wireless management via Intellian's Aptus PC or Mobile remote management application. Built in 8 Port Ethernet Switch provides VLAN capability, all in a single, 19" rack type 1U case. Integrated AC Power Supply (no additional components needed) and front panel touch display with easy navigation buttons.

Enterprise Enabling Speed

The Global Xpress constellation is the world's first global High Throughput Satellite network to come to market. Users will be able to connect at speeds measured in Megabits, as opposed to Kilobits, all at reasonable service rates.

Industry-leading Standards Compliance

The GX Series meets CE and FCC regulatory compliances as well as EN60945, EN60950, R&TTE and FCC Part 15. They are also designed to meet MIL-STD 167.

From In Port to Online in 4 Hours

Quick-Deploy packaging, pre-slung lifting straps, Intellian's Aptus Graphical User Interface and a single, integrated Below Deck Terminal (BDT) enable fast and easy installation of the GX Series. Captains and Fleet managers can count on quick, pain-free installation to get vessels connected and back out to sea swiftly.

One Touch Commissioning

Goes from power-up to network connectivity in 30 seconds. No calls to the Network Operations Center (NOC) required. No post installa-tion configuration (option file) needed. System is pre-configured for easy, rapid deployment.

FB250/500 Compatibility

All Intellian systems feature an Intellian LAN function, enabling all onboard devices to be easily networked out of the box with no ad-ditional hardware. For the ultimate in service reliability, or for out of band management solutions, the GX Series easily integrates with Intellian's FB250 or 500 terminals.

Uninterrupted Global Coverage

With the GX Series, users benefit from the reliable, global coverage of traditional Inmarsat Services, with more than twice the speed and performance.

INTELLIAN GX100
65cm Marine Stablized Ka-band

Intellian®

Technical Specifications

Physical

Radome Height	151cm / 59.63"
Radome Diameter	138cm / 54.33"
Reflector Diameter	103cm / 41"
Weight	Approx. 128kg / 282lbs

Stabilized Pedestal Assembly

Platform	3-axis : Azimuth, Elevation, Cross-level
Azimuth Range	Unlimited
Elevation Range	-20° to +115°
Cross-level Range	Up to ±37°
Stabilization Accuracy	0.2° max in presence of specified ship motions
Motor Brake System	Elevation, Cross-Level
Power Requirement	100~240V AC, 50~60Hz, 4A

Reflector & Feed Assembly

TX Frequency	29.00~30GHz Ka-band
TX Gain	47.7 dBi @ 29.5GHz (with Radome)
RX Frequency	19.2~20.2GHz Ka-band
RX Gain	43.7 dBi @ 19.7GHz (with Radome)
G/T	20.1 dB/K (Typ.)
BUC	5W Ka-band BUC
LNB	Ka-band LNB (L.O. 18.25GHz)
Polarization	Circular, Tx:RHCP / Rx:LHCP

Below Deck Terminal

Dimensions (WxDxH)	43.1cm x 44.1cm x 4.4cm / 17" x 17.3" x 1.7"
Weight	4kg / 8.8lbs
Display	2 line 40 character graphic VFD module
Ship's Gyrocompass Interface	NMEA 2000 / NMEA 0183
Modem	Integrated Global Express core module
Remote Management	Yes
Wi-Fi Operation	Yes
Management Port	Yes (Ethernet/ USB/ Serial)
Power Requirement	100~240V AC, 50~60Hz, 1A

Key Features

- Maritime Connectivity Made Simple
- All in One Below Deck Terminal
- Enterprise Enabling Speed
- Industry-leading Standards Compliance
- From In Port to Online in 4 Hours
- One Touch Commissioning
- FB250/500 Compatibility
- Uninterrupted Global Coverage
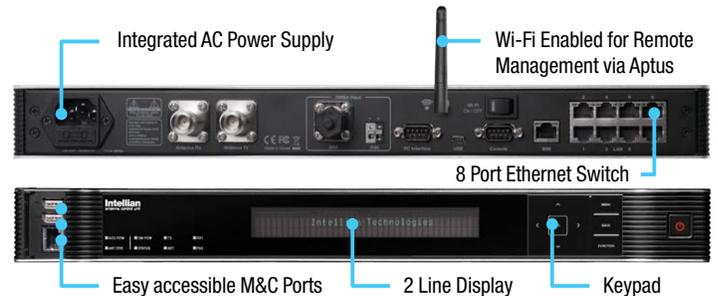
All-in-One Below Deck Terminal

Antenna Control Unit (19" Rack Type 1U)
➕
8 Port Ethernet Switch
➕
Integrated GX Modem

Integrated AC Power Supply
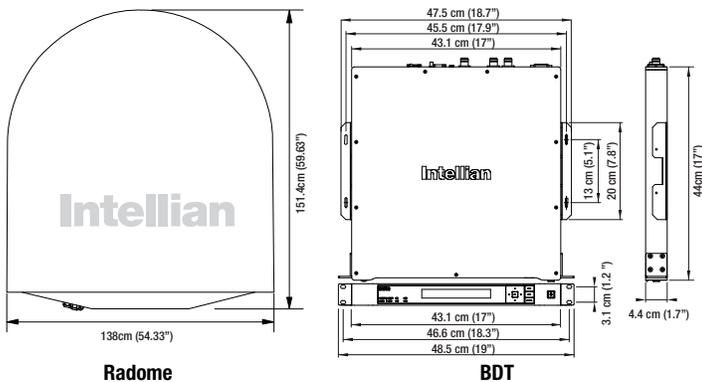
Wi-Fi Enabled for Remote Management via Aptus

8 Port Ethernet Switch

Easy accessible M&C Ports | 2 Line Display | Keypad

System Dimensions

Radome

47.5 cm (18.7")
45.5 cm (17.9")
43.1 cm (17")

13 cm (5.1")
20 cm (7.8")

44cm (17")

3.1 cm (1.2 ")
4.4 cm (1.7")

43.1 cm (17")
46.6 cm (18.3")
48.5 cm (19")

151.4cm (59.63")

138cm (54.33")

BDT

System Diagram

Antenna Rx   Antenna Tx