Intellian

GX100PM

1M MILITARY-GRADE
Global Xpress Terminal

FEATURES

INMARSAT TYPE APPROVED

The GX100PM is approved by Inmarsat for use on the Global Xpress network. For decades, Inmarsat has been known as the reliable, secure, global standard for satellite communications and the standard bearers for safety of life at sea. Their seal of approval ensures your vessel's communications system will perform at the most critical moments and in the most extreme conditions.

OPERATIONAL FLEXIBILITY

Intellian's 1m military grade system is built to be a flexible platform capable of delivering communication on multiple networks and multiple frequencies. Should operational or budgetary require-ments shift, the Intellian 1m system can be converted by a simple process for use on military Ka-band frequencies.

DESIGNED FOR MILITARY APPLICATIONS

The GX100PM is specially designed for use in military applications and meets required specifications, including FCC, ETSI, MIL-STD-167 and MIL-STD-461F. The military market requires a solution which enables the use of Inmarsat's high speed Global Xpress service in a rugged, purpose-built design at a COTS price point. The GX100PM meets and exceeds these requirements.

SINGLE NETWORK. GLOBAL COVERAGE.

Inmarsat's Global Xpress is the world's only global Ka-band network offered through a single satellite operator. Users will benefit from seamless, global coverage without any concern of network interruptions, data loss or cyber security issues that can occur as a vessel passes from one satellite region to another.

FROM IN PORT TO ONLINE IN 4 HOURS

Quick-deploy packaging, pre-slung lifting straps, and Intellian's Aptus Graphical User Interface enable fast and easy installation of the GX Series. The below deck terminal boasts the smallest overall footprint of any GX system, saving valuable rack space for other critical hardware. Ship Captains and Technical Officers can count on painfree installation to get vessels quickly connected and back out to sea.

OPERATIONAL INTELLIGENCE FROM ANYWHERE

Intellian's next generation remote antenna control software, Aptus® provides installing technicians, end users, and shore-based support staff with an intuitive graphical user interface that streamlines installation, operation, maintenance and remote support capability. The application ensures mission critical communications remain online by providing superior command and control of the system from anywhere in the world via an encrypted SSL connection.

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GX100PM

TECHNICAL SPECIFICATIONS

Physical

Radome Height	151.4 cm / 59.63"
Radome Diameter	138.0 cm / 54.33"
Reflector Diameter	103 cm / 41"
Weight	Approx. 113.3 kg / 249.78 lbs

Stabilized Pedestal Assembly

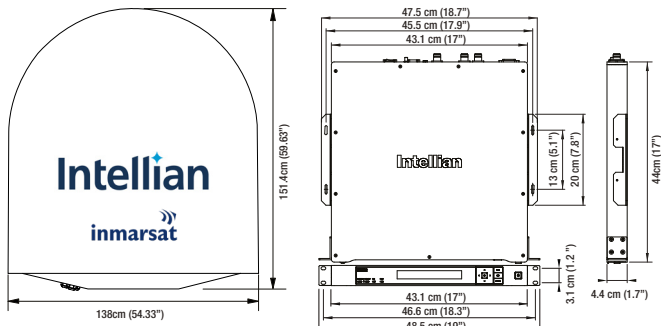|	
Platform	3-axis: Azimuth, Elevation, Cross-level
Azimuth Range	Unlimited
Elevation Range	-20° to +115°
Cross-level Range	Up to ±37°
Stabilization Accuracy	0.2° peak mispointing @ max ship motion condition
Motor Brake System	Azimuth, Elevation, Cross-level
Environmental Standard	MIL-STD-461F, EN60945, EN60950 MIL-STD-167-1A, DNV2.4 Class C

Reflector & Feed Assembly

TX Frequency	29.00~30 GHz Ka-band
TX Gain	47.7 dBi @ 29.5 GHz (with Radome)
RX Frequency	19.2~20.2 GHz Ka-band
RX Gain	43.7 dBi @ 19.7 GHz (with Radome)
G/T	20 dB / K (Typ.)
BUC	5W Ka-band BUC
LNB	Ka-band LNB (L.O. 18.25 GHz)
Polarization	Circular, Tx: RHCP / Rx: LHCP

Below Deck Terminal

Dimensions (WxDxH)	43.1 cm x 44.1 cm x 4.4 cm / 17" x 17.3" x 1.7"
Weight	4 kg / 8.8 lbs
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	100~240 V AC, 50~60 Hz, 1 A

KET FEATURE

- Maritime Connectivity Made Simple
- Fleet Enabling
- MIL-STD-167 & MIL-STD-461F Certified
- From In Port to Online in 4 Hours
- One Touch Commissioning
- Inmarsat Type Approved
- Uninterrupted Global Coverage

ALL-IN-ONE BELOW DECK TERMINAL

Below Deck Terminal (19" Rack Type 1U)
➕
8 Port Ethernet Switch
➕
Integrated GX Modem

Integrated AC Power Supply

8 Port Ethernet Switch

Easy accessible M&C Ports   2 Line Display   Keypad

SYSTEM DIMENSION

SYSTEM DIAGRAM

AC 100~240V

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