

G X 1 0 0 N X

ALL NEW 1M
Maritime Global Xpress Terminal



FEATURES

2.5GHZ WIDEBAND KA READY

The GX100NX uses 2.5GHz wideband Ka tuned Radome & Reflector. It eliminates the inconvenience of replacing the Radome and Reflector when 2.5GHz service is introduced.

NEW ALL-IN-ONE BELOW DECK TERMINAL

The all-new GX BDT integrates ACU, GX modem, power supply, 4-port switch and GX Mediator. This 19 "1U size BDT can be easy to install in the FX rack, reducing installation time and costs.

HIGH POWER BUC UPGRADABLE

The GX100NX can be easily upgraded with the 10W High Power BUC. There is no need to replace the BDT and no additional components are required. Simply upgrade 10W BUC to benefit high throughput service.

SINGLE COAXIAL CABLE

The GX100NX integrates RF and power cables into one coaxial cable. A single cable carries Tx, Rx, DC power, data and reference signals between the antenna and the BDT.

STANDARDIZED MODULAR COMPONENTS ACROSS NX PLATFORM

Modular components are used throughout the NX Platform, such as dynamic motor brakes with integrated encoders, Main Control Unit and skew assembly. Sharing common modules across Intellian's NX antenna series, the number of spare parts is reduced.

NEW APTUSNX

Intellian's all new integrated M&C platform, AptusNX provides responsive web user interface to manage and control the antenna system regardless of device types. Installation Wizard in AptusNX automates functions for system configuration so that operators are minimally involved in system installation and operation, including automatic cable loss compensation, line-up test and auto diagnostics.

GX100NX 1M Maritime Global Xpress Terminal

TECHNICAL SPECIFICATIONS

ABOVE DECK UNIT

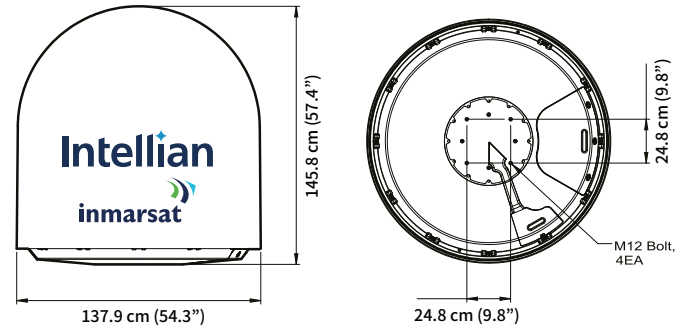
Radome Height	145.8 cm / 57.4"
Radome Diameter	137.9 cm / 54.3"
Reflector Diameter	105 cm / 41.3"
Weight	110 kg / 242 lbs
Azimuth Range	Unlimited
Elevation Range	-20° to 115°
Cross-level Range	± 37°
Stabilization Accuracy	0.2° peak miss-pointing @max ship motion condition
Motor Brake System	Dynamic Brake System
Tx Frequency	29.0 ~ 30.0 GHz Ka-band
Tx Gain	47.7 dBi @ 29.5 GHz (w/ radome)
Rx Frequency	19.2 ~ 20.2 GHz Ka-band
Rx Gain	44 dBi @ 19.7 GHz (w/ radome)
G/T	> 20.1 dB/K @ 19.7 GHz (w/ radome)
BUC Power	5W / 10W
Tx Sidelobe	Meet FCC 25.138
Rx Sidelobe	Meet FCC 25.209
Polarization	Circular (Tx : RHCP, Rx : LHCP)
Antenna Cable	Single 50 ohm Coax Cable

ANTENNA CONTROL UNIT

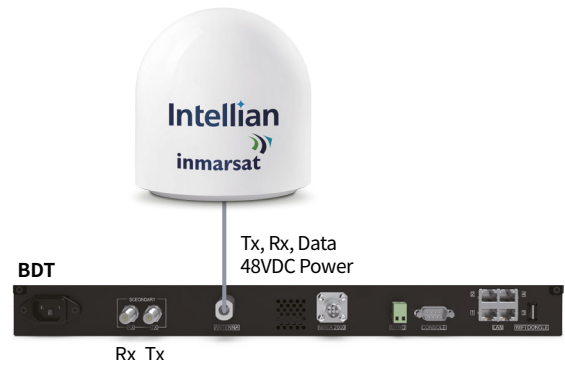
Dimensions (WxDxH)	43.1 cm x 41.1 cm x 4.4 cm / 17" x 16.1" x 1.7"
Weight	5.7 kg / 12.5 lbs
Display	OLED Display
Gyrocompass Interface	NMEA 2000, NMEA 0183
Mediator Interface	GX Mediator Integrated
Modem	GX Modem Integrated
Remote Management	Yes
Wi-Fi Operation	Yes (w/ Wi-Fi dongle)
Management Port	Yes
Intellian LAN Port	Yes
Power Requirement	100 ~240 VAC, 50~60Hz, 3A

SYSTEM DIMENSION

ADU



SYSTEM DIAGRAM



SYSTEM DIAGRAM (DUAL ANTENNA)

