

# v100NX

All New Ku-Ka Dual Band  
GEO/MEO/LEO 1m Maritime VSAT Terminal



## | Ku-Ka Dual Band Ready

The v100NX is the Ku- to Ka-band convertible antenna that can be simply converted from Ku- to Ka-band. The reflector and radome are frequency tuned for both satellite bands, ensuring maximum performance in both bands.

## | 2.5 GHz Wideband Ka Ready

The v100NX uses 2.5GHz wideband Ka tuned Radome & Reflector. It provides the convenience of not having to replace the Radome and Reflector when using 2.5GHz service in the future.

## | Standardized Modular Components Across NX Series

Modular components are used throughout the NX range, 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.

## | GEO/MEO/LEO Tracking Capability

The v100NX is ready for the future. Designed with the world's most accurate satellite tracking performance with our proven tracking algorithm covering GEO, MEO and LEO constellations.

## | Single Coaxial Cable

The v100NX 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 BOT.

## | New AptusNX

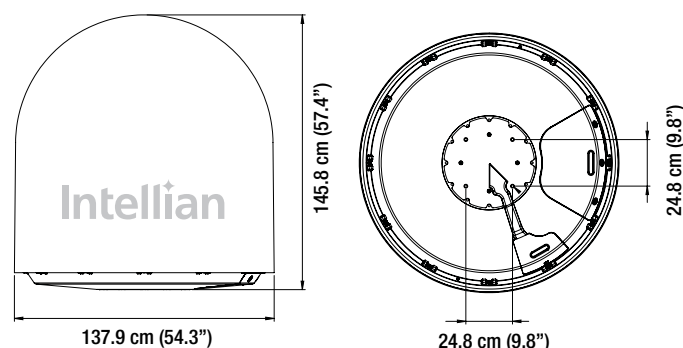
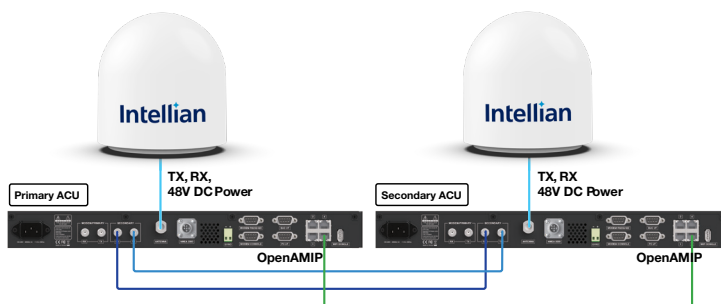
Intellian's all new integrated M&C platform, AptusNX provides responsive web user interface to manage and control the antenna system regardless of device types. Installation Wizard in AptusNX automates functions for system configuration so that operators are minimally involved in system installation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

**v100NX****All New Ku-Ka Dual Band  
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Above Deck Unit	
<b>Radome Height</b>	145.8 cm / 57.4"
<b>Radome Diameter</b>	137.9 cm / 54.3"
<b>Reflector Diameter</b>	105 cm / 41.3"
<b>Weight</b>	113 kg / 249.1 Ibs
<b>Azimuth Range</b>	Unlimited
<b>Elevation Range</b>	-20° to 115°
<b>Cross-level Range</b>	± 37°
<b>Stabilization Accuracy</b>	0.2° peak miss-pointing @ max ship motion condition
<b>Motor Brake System</b>	Dynamic Break System
<b>Tx Frequency</b>	13.75 ~ 14.5 GHz Ku-band
<b>Tx Gain</b>	42.0 dBi @ 14.25 GHz (excl. radome)
<b>Rx Frequency</b>	10.7 ~ 12.75 GHz Ku-band
<b>Rx Gain</b>	40.7 dBi @ 11.7 GHz (excl. radome)
<b>G/T</b>	> 20.0 dB/K @ 12.75 GHz (Clear Sky, 30° Elevation)
<b>BUC Power</b>	8W, 16W, 25W (Optional)
<b>LNB</b>	Intellian PLL LNB
<b>Polarization</b>	Linear, Cross & Co-pol
<b>Antenna Cable</b>	Single 50ohm Coax Cable for Rx, Tx, FSK, Reference and Power from ACU to ADU

**Antenna Control Unit**

<b>Dimensions (WxDxH)</b>	43.1cm x 41.1cm x 4.4cm / 17" X 16.1" X 1.7"
<b>Weight</b>	5.2 kg / 11.5 Ibs
<b>Display</b>	OLED Display
<b>Gyrocompass Interface</b>	NMEA2000, NMEA0183
<b>Mediator Interface</b>	Yes
<b>Modem Interface</b>	Ethernet port / RS-232C, -422C / I/O Console
<b>Modem Protocol</b>	iDirect, Comtech, SatLink, Hughes, GILAT, Newtec
<b>Wi-Fi Operation</b>	Yes (w/ Wi-Fi dongle)
<b>Management Port</b>	Yes
<b>Intellian LAN Port</b>	Yes
<b>Power Requirement</b>	100 ~240 VAC, 50~60Hz, 4A

**System Dimension****System Diagram****System Diagram (Dual Antenna)****Intellian**

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