

v100NX Ka

ALL NEW KA-KU DUAL BAND

GEO/MEO/LEO 1m Maritime VSAT Terminal



FEATURES

FREQUENCY FLEXIBILITY

The v100NX Ka can be easily inter-converted from Ka- to Kuand Ku- to Ka-band operation by changing the center mounted RF Assembly and Feed using an available conversion kit.

EMBEDDED DUAL ANTENNA MEDIATOR

Intellian's new ACU fully supports dual antenna operation without additional complexity and components such as a separate mediator and RF splitters. Streamlined configuration of the dual antenna operation is done via AptusNX.

STANDARDIZED MODULAR COMPONENTS ACROSS NX SERIES

Modular components are used throughout the NX range, such as dynamically braked motors with integrated encoders, and a Main Control Unit. The sharing of common modules across Intellian's NX antenna series reduces the number of spare parts by more than 30%.

GEO/MEO/LEO TRACKING CAPABILITY

The v100NX Ka is ready for the future. It is designed with the world's most accurate satellite tracking performance with our proven tracking algorithm that covers GEO, MEO, and LEO constellations.

SINGLE COAXIAL CABLE

The v100NX Ka combines Tx, Rx, and DC power in a single cable solution, enabling faster installation and reduced costs. Dynamic Motor Brakes eliminate the requirement of shipping brackets, and the Dome-On external RF cable connection on the base allows faster and easier installation without removing the radome.

NEW APTUSNX

AptusNX, Intellian's all new integrated M&C platform, provides a responsive user interface to manage antenna systems. It also has an intelligent diagnosis function for accurate and enhanced antenna monitoring, and provides detailed reports and measurement for convenient maintenance.



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TECHNICAL SPECIFICATIONS

ABOVE DECK UNIT

145.4 cm / 57.4" Radome Height Radome Diameter 137.9 cm / 54.3" 105 cm / 41.3" Reflector Diameter Weight 113 kg / 249.1 lbs Azimuth Range Unlimited

-20° to 115° **Elevation Range** \pm 37 $^{\circ}$ Cross-level Range

0.2° peak miss-pointing @ max ship motion Stabilization Accuracy

condition

Motor Brake System Dynamic Brake System 29.0 ~30.0 GHz Ka-band Tx Frequency

48.2 dBi @ 29.5GHz (excl. radome) Tx Gain

19.2 ~ 20.2 GHz Ka-Band Rx Frequency

44.5 dBi @ 19.7Ghz (excl. radome) Rx Gain

> 20.1 dB/K @ 19.7 GHz (Clear Sky, 30° Eleva-G/T

tion)

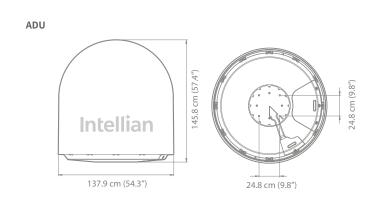
5W and 10W **BUC Power**

Circular (RX: LHCP, TX: RHCP) Polarization

Single 50-ohm Coax Cable for Rx, Tx, FSK, Antenna Cable

Reference and Power from ACU to ADU

SYSTEM DIMENSION



SYSTEM DIAGRAM



ANTENNA CONTROL UNIT

Dimensions (WxDxH) 43.1cm x 41.1cm x 4.4cm / 17" X 16.1" X 1.7"

5.2 kg / 11.5 lbs Weight Display **OLED Display**

NMEA2000, NMEA0183 Gyrocompass Interface

Mediator Interface Yes

Ethernet port / RS-232C,-422C / I/O Console Modem Interface

iDirect, Comtech, SatLink, Hughes, GILAT, Modem Protocol

Newtec

Wi-Fi Operation Yes (w/ Wi-Fi dongle)

Management Port Yes Intellian LAN Port Yes

Power Requirement 100 ~240 VAC, 50~60Hz, 4A

SYSTEM DIAGRAM (DUAL ANTENNA)

