Intellian

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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24.8 cm (9.8")



v100NX Ka

TECHNICAL SPECIFICATIONS

ABOVE DECK UNIT

Radome Height 145.8 cm / 57.4" Radome Diameter 137.9 cm / 54.3" 105 cm / 41.3" Reflector Diameter 113 kg / 249.1 lbs Weight Azimuth Range Unlimited -20° to 115° **Elevation Range**

Cross-level Range \pm 37 $^{\circ}$

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

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

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

tion)

5W and 10W **BUC Power**

Polarization Circular (RX: LHCP, TX: RHCP)

Single 50-ohm Coax Cable for Rx, Tx, FSK, Antenna Cable Reference and Power from ACU to ADU

SYSTEM DIMENSION

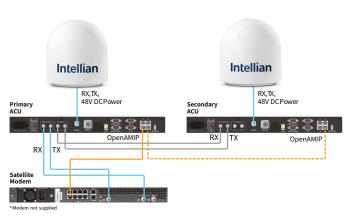
ADU 145.8 cm (57.4") Intellian

SYSTEM DIAGRAM

137.9 cm (54.3")



SYSTEM DIAGRAM (DUAL ANTENNA)



Marine Electronics & Satellite Communications www.mackaymarine.com

ANTENNA CONTROL UNIT

Dimensions (WxDxH) 43.1cm x 35cm x 4.4cm / 17" x 13.8" x 1.7"

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

Gyrocompass Interface NMEA2000, NMEA0183

Mediator Interface

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

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

Newtec

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

Management Port Yes Intellian LAN Port

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

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EMEA

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