

v 1 3 0 N X

KU TO KA-BAND CONVERTIBLE

GEO/MEO/LEO 1.25m Maritime VSAT Terminal



FEATURES

KU-KA DUAL BAND READY

The v130NX is the Ku- to Ka-band convertible antenna which has a frequency-tuned reflector and radome for both satellite bands, ensuring maximum performance in each band.

GEO/MEO/LEO TRACKING CAPABILITY

The v130NX is future-ready, designed with the world's most accurate satellite tracking performance. Our proven tracking algorithm not only covers GEO, but also MEO and LEO constellations.

MODULAR COMPONENTS IN NX SERIES

Modular components are commonly used throughout Intellian's NX antenna series, such as the Main Control Unit and skew assembly. Sharing common modules reduces the number of spare parts.

HIGH-POWER BUC OPTIONS

The v130NX provides various BUC power options up to 40W for maximum throughput, enabling higher data rates and global operation.

SIMPLIFIED INSTALLATION

Only a single cable is needed for installation, which carries TX, RX, DC power, data, and reference signals between the antenna and the ACU. For dual antenna operations, no additional hardware is required due to Intellian's new embedded-mediator function ACU.

NEW APTUSNX

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



v~1~3~0~N~X~ Ku- to Ka-band Convertible GEO/MEO/LEO 1.25m Maritime VSAT Terminal

TECHNICAL SPECIFICATIONS

ABOVE DECK UNIT

Radome Height 172.4 cm / 67.9" 168.1 cm / 66.2" Radome Diameter 125 cm / 49.2" Reflector Diameter 150 kg / 330.7 lbs Weight

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

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

Dynamic Brake System Motor Brake System Tx Frequency 13.75 ~ 14.5 GHz Ku-band

43.5 dBi @ 14.25 GHz (excl. radome) Tx Gain

10.7 ~ 12.75 GHz Ku-band Rx Frequency

42.0 dBi @ 11.7 GHz (excl. radome) Rx Gain

G/T > 21.0 dB/K @ 12.75 GHz (Clear Sky, 30° Elevation)

8W, 16W, 25W, 40W (Optional) **BUC Power**

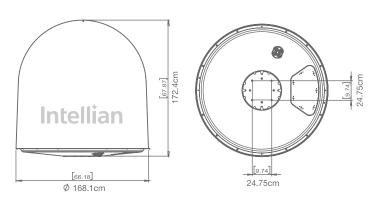
Intellian PLL LNB LNB Linear, Cross & Co-pol Polarization

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

ence and Power from ACU to ADU

SYSTEM DIMENSION

ADU



SYSTEM DIAGRAM



ANTENNA CONTROL UNIT

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

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

NMEA2000, NMEA0183 Gyrocompass Interface

Mediator Interface

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

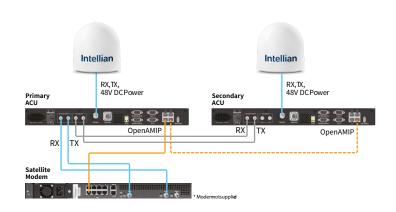
Modem Protocol iDirect, Comtech, SatLink, Hughes, GILAT, Newtec

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

Management Port Intellian LAN Port

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

SYSTEM DIAGRAM (DUAL ANTENNA)



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