

v 8 5 N X

85CM Ku-Ka CONVERTIBLE

Maritime VSAT Antenna System



FEATURES

FUTURE-PROOF SYSTEM

The world's first 85cm Ku- to Ka-band convertible antenna, the v85NX can be converted by simply changing the RF Assembly and Feed while still using the dual-band optimized reflector and radome, and is capable of supporting full 2.5GHz Wide Ka-band networks.

CONTROLLED COSTS WITH MODULARIZED COMPONENTS

With the modular component design, the number of spare parts is reduced by more than 30%. It now only has 13 common spare parts that can fix most potential problems. Thus, its reliability is improved, its maintenance is simpler, and the total cost of ownership for the system is lowered.

SIMPLIFIED INSTALLATION

Combining Tx, Rx and DC power into one coaxial cable solution with an external dome-on connection enables faster and reduced costs of installation. Combined with dynamic motor braking, it also eliminates the need to remove the radome during installation.

ENHANCED APTUSNX

AptusNX can be operated by simply plugging a laptop into the ACU without any need to download extra software. The AptusNX software presents an installation wizard with a step-by-step commissioning guide to more easily complete setup, and with enhanced diagnostic capabilities the AptusNX can send an alert to the operator when preventative maintenance is required.

INDUSTRY BEST RF PERFORMANCE

Intellian's highly efficient RF design delivers the best performance compared to other sub-1m class systems, enabling higher data rates and global operation. The compact 85cm antenna's smaller footprint allows installation on smaller vessels and gives them access to 1-meter designed networks. It also has several different BUC power options available up to 25W that give it a wider operational range.

EMBEDDED DUAL ANTENNA MEDIATOR

Intellian's new ACU fully supports dual antenna operation without additional hardware such as a separate mediator, RF splitters and cables. Eliminate loss of signal due to blockage by using dual antenna systems.

M12 Bolt, 4ea



V~8~5~N~X~85cm Ku-Ka Convertible Maritime VSAT Antenna System

TECHNICAL SPECIFICATIONS

ABOVE DECK UNIT

123 cm / 48.4" Radome Height 113cm / 44.5" Radome Diameter Empty Dome Weight 25 kg / 55.1 lbs 85 cm / 33.5" Reflector Diameter 96 kg / 211.6 lbs ADU Weight

3-axis / Azimuth, Elevation, Cross-level Platform

Azimuth Range Unlimited -20° to 115° **Elevation Range** ± 37° Cross-level Range

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

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

Tx Gain 40.7 dBi @ 14.25 GHz (excl. radome)

10.7 ~ 12.75 GHz Ku-band Rx Frequency

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

18.3 dB/K @ 12.75 GHz (clear Sky, 30° Elevation) G/T

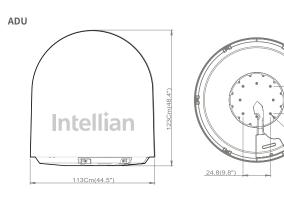
8W, 16W, 25W (Optional) BUC Power

LNB Intellian PLL LNB

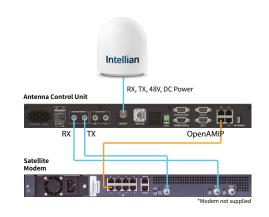
Linear, Cross & Co-pol Polarization

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

SYSTEM DIMENSION



SYSTEM DIAGRAM



ANTENNA CONTROL UNIT

Dimensions (WxDxH) 43.1 cm x 35.0 cm x 4.4 cm / 17" x 13.8" x 1.7"

5.2 kg / 11.5 lbs Weight

256x64 Graphic OLED Display NMEA 2000, NMEA 0183 Gyrocompass Interface

Yes (Emebeded in ACU, Primary Mediator Interface / Secondary control on AptusNX)

Modem Interface Ethernet port / RS-232C, -422C / I/O Console iDirect, Comtech, SatLink, Hughes, GILAT, Newtec Modem Protocol

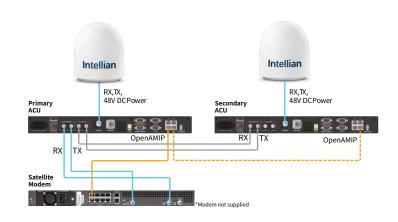
Remote Management

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

Management Port Yes Intellian LAN Port

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

SYSTEM DIAGRAM (DUAL ANTENNA)



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