

**85cm Ku-Ka Convertible
Maritime VSAT Antenna System**

Higher RF Performance

Intellian's highly efficient RF design delivers superior performance compared to other 80cm class systems, enabling higher data rates and global operation. The compact 85cm antenna's smaller footprint allows installation on smaller vessels yet still allows the system to operate on a 1-meter designed network.

Improved tracking precision and reliability in a compact and stream-lined mechanical design. The v85NX system is supplied as standard with 8W BUC, or can be supplied with 16W and 25W variants.

Future Proof Communications

The v85NX can be simply upgraded from Ku- to Ka-band operation by changing the center mounted RF Assembly and Feed using an available conversion kit. Frequency tuned reflector and radome ensure maximum performance across both Ku- and Ka-bands.

Enterprise Enabling Speed

The Global Xpress constellation is the world's first global High Throughput Satellite network to come to market. Users will be able to connect at speeds measured in Megabits, as opposed to Kilobits, all at reasonable service rates.

Single Coaxial Cable

Combined Tx, Rx and DC power in a Single Cable solution, the v85NX enables faster and reduced costs of installation. Dynamic Motor Brakes, eliminating the requirement of shipping brackets, and Dome-On external RF cable connection on the base allow easier and quicker installation without removing the radome.

Intellian v85NX



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.

**Standardized Modular Components Across
NX Series**

Modular components are used throughout the NX range, such as dynamically braked motors 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 by more than 30%.

AptusNX Intelligent Diagnostics

Intellian's all new integrated M&C software, enables advanced alerts from the live data monitoring and analysis agent, the v85NX sends warning messages to the NOC in advance when it detects any abnormal operation. Intuitive web application interface is designed to provide a superior user experience. AptusNX enhances remote diagnostics, automates routine processes and includes an integrated spectrum analyzer. The AptusNX API enables integration directly within a NOC for total fleet-wide visibility.



INTELLIAN v85NX

85cm Ku-Ka Convertible Maritime VSAT Antenna System



Technical Specifications

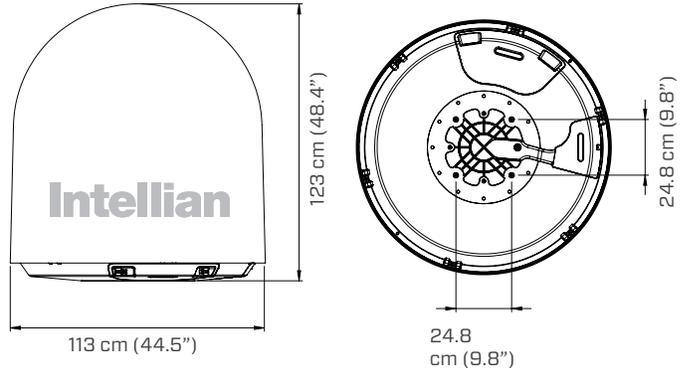
Above Deck Unit

Radome Height	123 cm / 48.4"
Radome Diameter	113 cm / 44.5"
Reflector Diameter	85 cm / 33.5"
Weight	96kg / 211.6lbs
Platform	3-axis / Azimuth, Elevation, Cross-level
Azimuth Range	Unlimited
Elevation Range	-20° to +115°
Cross-level Range	±37°
Stabilization Accuracy	0.2° peak mis-pointing @ max ship motion condition
Motor Brake System	Dynamic braking
TX Frequency	13.75 - 14.5 GHz Ku-band
TX Gain	40.7 dBi@14.25 GHz (excl. radome)
RX Frequency	10.7 - 12.75 GHz Ku-band
RX Gain	38.9 dBi@11.7 GHz (excl. radome)
G/T	18.3 dB/K@12.75 GHz (Clear Sky, 30° Elevation)
BUC Power	8W, 16W, 25W (Optional)
LNB	Intellian PLL LNB
Polarization	Linear, Cross & Co-pol
Antenna Cable	Single 50 ohm coax cable for Rx, Tx, FSK, Reference and Power from ACU to ADU

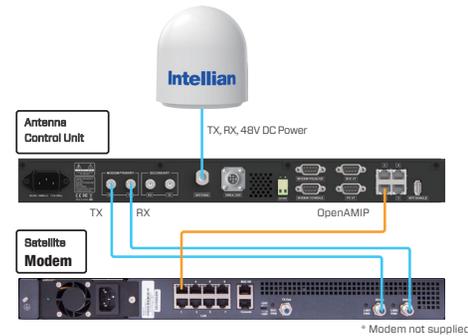
Antenna Control Unit

Dimensions (WxDxH)	43.1 cm x 35.0 cm x 4.4 cm / 17" x 13.8" x 1.7"
Weight	5.2 kg / 11.5 lbs
Display	256x64 Graphic OLED
Gyrocompass Interface	NMEA2000 / NMEA0183
Mediator Interface	Yes (Embedded in ACU, Primary / Secondary control on AptusNX)
Modem Interface	Ethernet port / RS-232C, -422C / I/O Console
Modem Protocol	iNewtec, Direct, Comtech, SatLink, Hughes, GILAT, Newtec
Remote Management	Yes
Wi-Fi Operation	Yes (w/ Wi-Fi dongle)
Management Port	Yes
Intellian LAN Port	Yes
Power Requirement	100-240 V AC, 50-60 Hz, 4 A

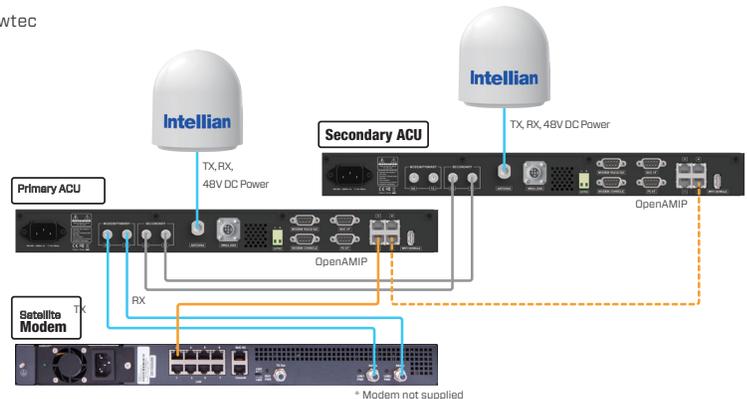
System Dimension



System Diagram



System Diagram (Dual Antenna)



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