

v150NX Ka

1.5M Ka-Ku CONVERTIBLE
Maritime VSAT Terminal



FEATURES

2.5GHZ WIDEBAND KA READY

The v150NX Ka has a full range-optimized reflector and radome supporting high speed Ka-band services, which covers the entire commercial Ka 2.5GHz wide frequency band range. The v150NX Ka supports dual-polarization and can transmit and receive both LHCP and RHCP of Ka-band circular polarization.

SINGLE COAXIAL CABLE

The v150NX 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 APTUS NX

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.

KU-KA CONVERTIBLE

The v150NX Ka is the only world's first Ku-Ka convertible antenna that can be simply converted from Ku- to Ka-band. The reflector and radome are frequency tuned for both satellite bands, ensuring maximum performance in both bands.

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.

v150NX Ka

TECHNICAL SPECIFICATIONS

ABOVE DECK UNIT

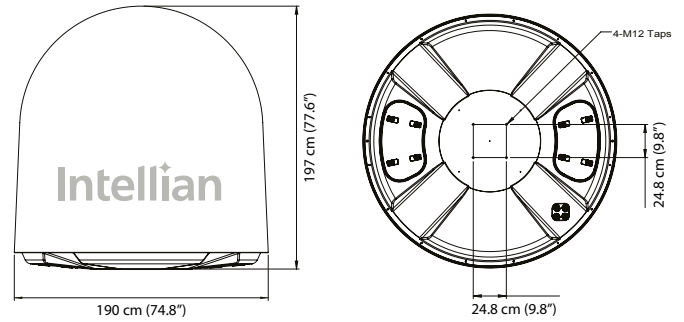
Radome Height	197.0 cm / 77.6"
Radome Diameter	190.0 cm / 74.8"
Reflector Diameter	150.0 cm / 59.0"
Weight	260 kg
Platform	3-axis / Azimuth, Elevation, Cross-level
Azimuth Range	Unlimited
Elevation Range	-15° to +110°
Cross-level Range	Up to ± 35°
Stabilization Accuracy	0.2° peak mispointing @ max ship motion condition
Motor Brake System	Dynamic Motor Brake
Tx Frequency	27.5 ~ 30.0 GHz Ka-band
Tx Gain	50.3 dBi @ 29.5 GHz
Rx Frequency	17.7 ~ 20.2 GHz Ka-band
Rx Gain	47.0 dBi @ 19.2GHz
G/T	23.5 dB/K @ 19.2GHz (Clear Sky, 30° Elevation)
BUC Power	25W, 50W, 100W
LNB	Intellian Universal Ka-band LNB
Polarization	Circular (RHCP & LHCP), Dual-Pol
Antenna Cable	Single 50 Ω coax cable for Rx, Tx, FSK and Power from ACU to ADU
Power Requirement for BUC	100 ~ 240 VAC, 50~60Hz

ANTENNA CONTROL UNIT

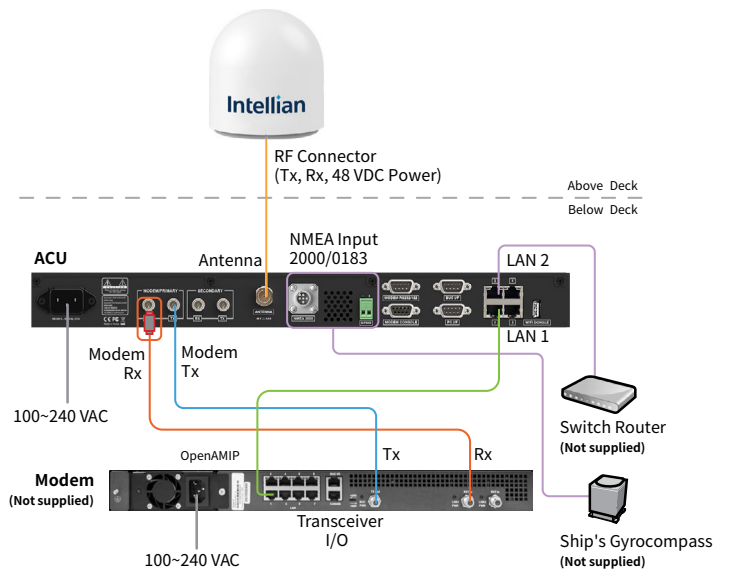
Dimensions (WxDxH)	43.1cm x 35.0cm x 4.4cm / 17" X 13.8" X 1.7"
Weight	5.2 kg / 11.5 lbs
Display	256 x 64 Graphic OLED
Gyrocompass Interface	NMEA2000, NMEA0183
Mediator Interface	Yes (Embedded in ACU, Primary / Secondary Control on AptusNX)
Modem Interface	Ethernet port / RS-232C,-422C / I/O Console
Modem Protocol	iDirect, 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, 4A

SYSTEM DIMENSION

ADU



SYSTEM DIAGRAM



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