



# 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

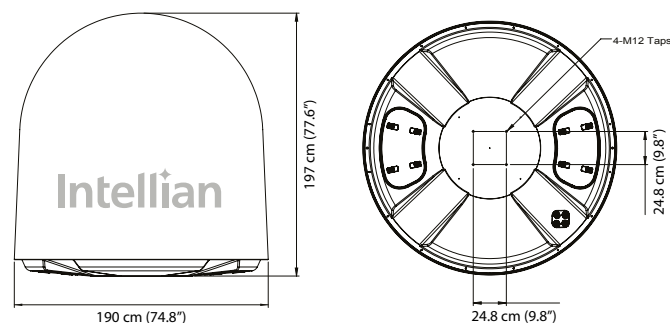
Radome Height	197.0 cm / 77.6"
Radome Diameter	190.0 cm / 74.8"
Reflector Diameter	150.0 cm / 59.0"
Weight	260 kg
Platform	3-axis / Azimuth, Elevation, Cross-level
Azimuth Range	Unlimited
Elevation Range	-15° to +110°
Cross-level Range	Up to $\pm 35^\circ$
Stabilization Accuracy	0.2° peak mispointing @ 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 $\Omega$ coax cable for Rx, Tx, FSK and Power from ACU to ADU
Power Requirement for BUC	100 ~ 240 VAC, 50~60Hz

### ANTENNA CONTROL UNIT

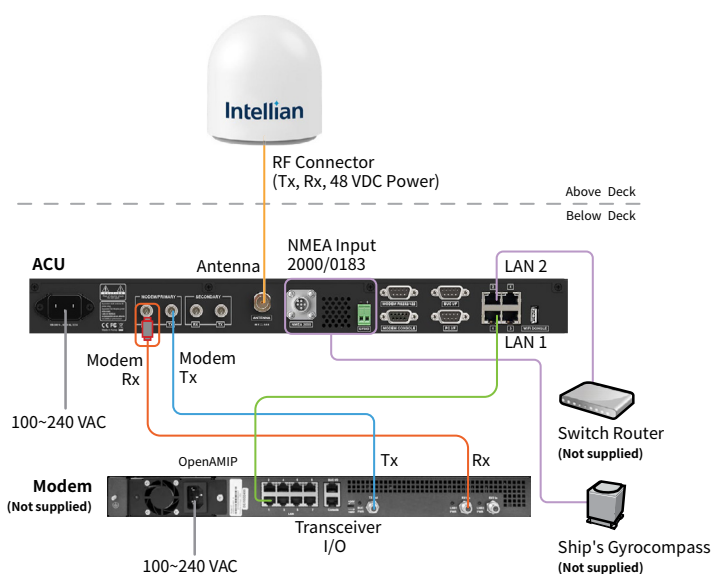
Dimensions (WxDxH)	43.1cm x 35.0cm x 4.4cm / 17" X 13.8" X 1.7"
Weight	5.2 kg / 11.5 lbs
Display	256 x 64 Graphic OLED
Gyrocompass Interface	NMEA2000, NMEA0183
Mediator Interface	Yes (Embedded in ACU, Primary / Secondary Control on AptusNX)
Modem Interface	Ethernet port / RS-232C, -422C / I/O Console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



### Global HQ

Innovation Center  
Intellian Technologies, Inc.  
T +82 31 379 1000

### APAC

Seoul  
Intellian Technologies, Inc.  
T +82 2 511 2244

### Americas

Irvine  
Intellian Technologies USA, Inc.  
T +1 949 727 4498 Toll Free +1 888-201-9223

### EMEA

Rotterdam  
Intellian B.V.  
T +31 1 0820 8655