

v60Ka 2

65cm New Maritime VSAT Antenna System



Compact and Lightweight

The v60Ka 2 is a 60 cm compact and lightweight Ka-Band VSAT antenna. The light weight of the antenna system (86 lbs/39 kg) provides an easy and convenient way to reduce installation time and cost. Despite being the smallest and lightest in Intellian VSAT, the v60Ka 2 is a top-notch performer even in the harshest sea conditions.

Single Coaxial Cable

The v60Ka 2 combines RF, M&C, and DC power into a single coaxial cable. The single coaxial cable carries the Tx, Rx, DC power, and M&C and reference signals between the antenna and the ACU.

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. To enable Dual Antenna operations, only three cables (two RF and one Ethernet) need to be connected between the two antennas. Streamlined configuration of the dual antenna operation is done via AptusNX.

AptusNX

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.

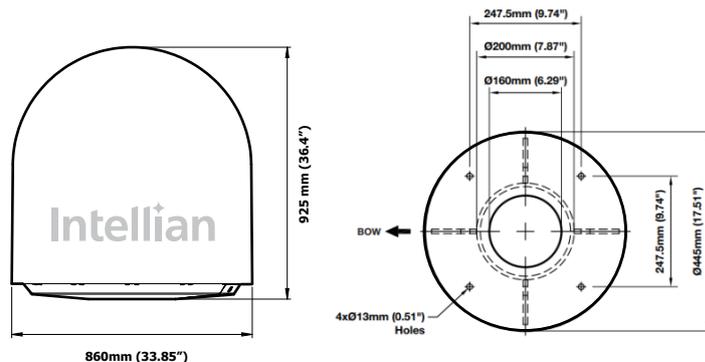
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Technical Specifications

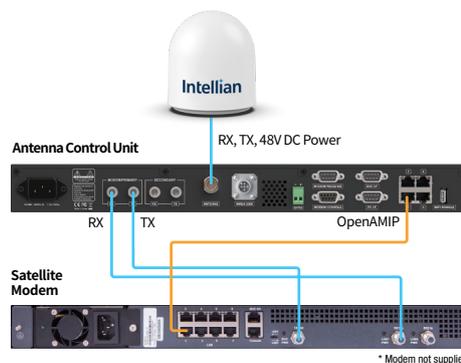
Above Deck Unit	
Radome Height	92.5 cm / 36.4"
Radome Diameter	86 cm / 33.85"
Reflector Diameter	65 cm / 25.59"
Weight	39 kg / 86 lbs
Azimuth Range	Unlimited
Elevation Range	-20° to 115 °
Cross-level Range	±37 °
Stabilization Accuracy	0.2° max in presence of specified ship motions
Tx Frequency	29.0 ~ 30.0 GHz Ka band
Tx Gain	44.2 dBi @ 29.5 GHz (without radome)
Rx Frequency	19.2 ~ 20.2 GHz Ka band
Rx Gain	40.5 dBi @ 19.7 GHz (without radome)
G/T	>16.2 dB/K @ 19.7 GHz (with radome)
BUC Power	5W
Sidelobe	Meet FCC 25.218
Polarization	Circular (Rx : LHCP, Tx : RHCP)
Antenna Cable	Single 50 ohm Coax Cable

Antenna Control Unit	
Dimensions (WxDxH)	43.1 cm x 35.0 cm x 4.4 cm / 17" x 13.8" x 1.7"
Weight	5.2kg / 11.5lbs
Display	OLED Display
Gyrocompass Interface	NMEA 2000, NMEA0183
Mediator Interface	Yes
Modem Protocol	iDirect, Comtech, SatLink, Hughes, GILAT, Newtec
Wi-Fi Operation	Yes (w/ Wi-Fi dongle)
Management Port	Yes
Intellian Lan Port	Yes
Power Requirement	100~240 VAC, 50~60Hz, 4A

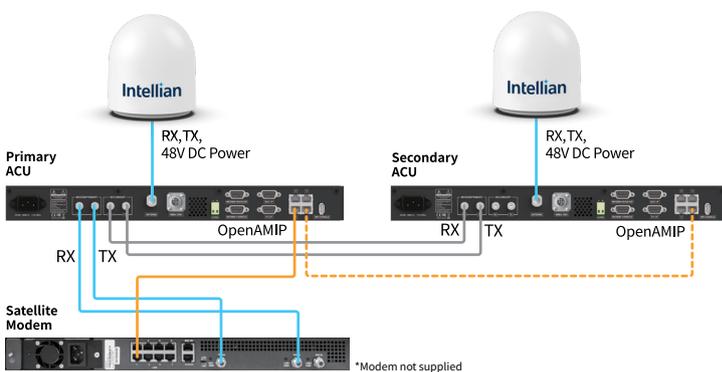
System Dimension



System Diagram



System Diagram (Dual Antenna)



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