

v60E

65cm Ku-band Maritime VSAT Antenna System





Advanced Performance and Design

Intellian's advanced RF design and technology delivers highly efficient performance, including enhanced tracking precision compared to other 65 cm class systems. The v60E has a compact and streamlined mechanical design to produce a light weight and robust antenna, maintaining high levels of reliability and performance that are compulsory in a Maritime environment.

Simplified Installation

Through advanced design and understanding of the Maritime user requirements, the v60E delivers a simplified installation process and cost savings. Unlike conventional antenna installations, the v60E does not require the radome or hatch to be opened, as the requirement for shipping brackets has been removed and a direct cable connection port is applied to the outer radome base. The logistics and installation have also been made easier and more cost-effective through the light weight design versus existing 65cm sized antennas that are comparable in the market.

I Single Cable Solution

The v60E includes a single cable, combining Tx, Rx and DC power into one single solution. This allows for a faster and more cost-effective installation, as well as easier troubleshooting and maintenance. The single coaxial cable is connected externally on the base of the radome with no requirement to access the inside of the radome, reducing complexity for the user.

I Antenna Management Platform

Intellian's all-new integrated M&C platform, AptusNX provides a responsive web user interface to manage and control the antenna system. AptusNX provides an intelligent diagnosis function which enables accurate and enhanced antenna performance checks both on-board and remotely. This reduces the need for on-board maintenance and improves performance. The Installation Wizard included in AptusNX automates system configuration so that network operators or service providers can bring the system onto their service faster than ever before.

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Technical Specifications

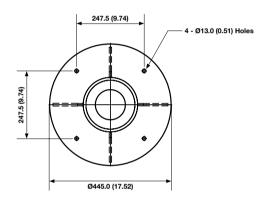
Above Deck UnitRadome Height93.5 cm / 36.81"Radome Diameter86 cm / 33.85"Reflector Diameter65 cm / 25.6"ADU Weight42 kg / 92.6 lbsPlatform3-axis / Azimuth, Elevation, Cross-levelAzimuth RangeUnlimitedElevation Range-20°to +115°Cross-level RangeUp to ± 37°Stabilization Accuracy0.2° max in presence of specified ship motionsTx Frequency13.75 ~ 14.5 GHz Ku-bandTx Gain37.9 dBi @ 14.25 GHz (excl. radome)Rx Frequency10.7 ~ 12.75 GHz Ku-bandRx Gain36.5 dBi@11.7 GHz (excl. radome)G/T15.4 dB/K@12.75 GHz (Clear Sky, 30° Elevation)BUC Power6WLNBUniversal PLL LNBPolarizationLinear, Cross-pol OnlyAntenna CableSingle 50 ohm coax cable for Rx, Tx, FSK, Reference and Power from ACU to ADU		
Radome Diameter Reflector Diameter 65 cm / 25.6" ADU Weight 42 kg / 92.6 lbs Platform 3-axis / Azimuth, Elevation, Cross-level Azimuth Range Unlimited Elevation Range -20°to +115° Cross-level Range Up to ± 37° Stabilization Accuracy 13.75 ~ 14.5 GHz Ku-band Tx Frequency 13.79 dBi @ 14.25 GHz (excl. radome) Rx Frequency 10.7 ~ 12.75 GHz Ku-band Rx Gain 36.5 dBi@11.7 GHz (excl. radome) G/T 15.4 dB/K@12.75 GHz (Clear Sky, 30° Elevation) BUC Power 6W LNB Universal PLL LNB Polarization Linear, Cross-pol Only Single 50 ohm coax cable for Rx, Tx, FSK, Reference	Above Deck Unit	
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Polarization Linear, Cross-pol Only Single 50 ohm coax cable for Rx, Tx, FSK, Reference	BUC Power	6W
Antonno Coble Single 50 ohm coax cable for Rx, Tx, FSK, Reference	LNB	Universal PLL LNB
	Polarization	Linear, Cross-pol Only
	Antenna Cable	

Antenna Control Unit	
Dimension (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
LED Indicator	6 LEDs for Power, INT/Search, Tracking, Lock, Setup, Error
Gyrocompass Interface	NMEA0183
Modem Interface	Ethernet port / RS-232C,-422C / I/O Console
Remote Management	Yes
Management Port	Yes
Intellian LAN Port	Yes
Power Requirement	100~240 V AC, 50~60 Hz, 3A

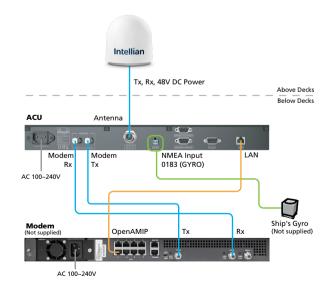
System Dimension

Unit: mm (inch)





System Diagram





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