

Intellian

v 1 0 0 E

1.05M KU-BAND
Maritime VSAT Antenna System



FEATURES

ADVANCED PERFORMANCE AND DESIGN

Intellian's advanced RF design and technology delivers highly efficient performance, including enhanced tracking precision compared to other 1 m class systems. The v100E 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 v100E delivers a simplified installation process and cost savings. Unlike conventional antenna installations, the v100E does not require the radome to be opened, as the requirement for shipping brackets has been removed.

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 regardless of device types. The Installation Wizard in AptusNX automates functions for system configuration so that operators are minimally involved in system installation and operation.

SINGLE CABLE SOLUTION

The v100E 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.

v100E 1.05m Ku-band Maritime VSAT Antenna System

TECHNICAL SPECIFICATIONS

ABOVE DECK UNIT

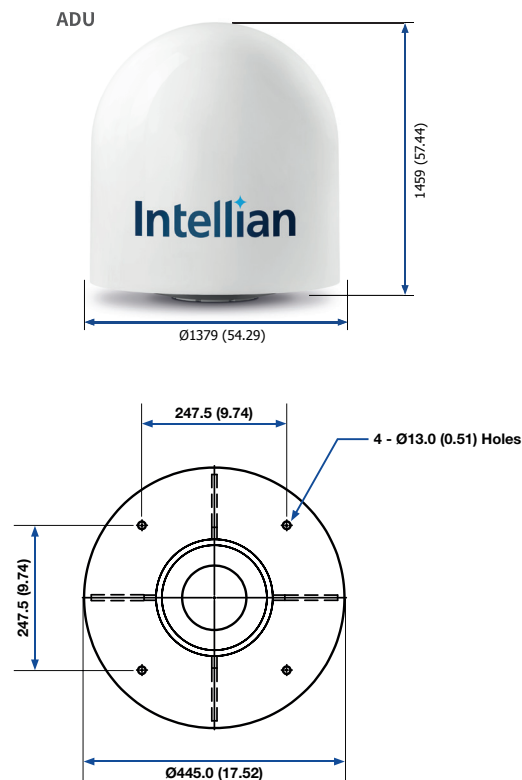
Radome Height	145.9 cm / 57.44"
Radome Diameter	137.9 cm / 54.29"
Reflector Diameter	105 cm / 41.33"
ADU Weight	121 kg / 266.7 lbs
Platform	3-axis / Azimuth, Elevation, Cross-level
Azmuth Range	Unlimited
Elevation Range	-15° to +110°
Cross-level Range	Up to $\pm 35^\circ$
Stabilization Accuracy	0.2° max in presence of specified ship motions
Tx Frequency	13.75 ~ 14.5 GHz Ku-band
Tx Gain	42 dBi @ 14.25 GHz (excl. radome)
Rx Frequency	10.7 ~ 12.75 GHz Ku-band
Rx Gain	40.5 dBi @ 11.7 GHz (excl. radome)
G/T	19.8 dB/K @ 12.75 GHz (Clear Sky, 30° Elevation)
BUC Power	6W
LNB	Universal PLL LNB
Polarization	Linear, Cross-pol Only
Antenna Cable	Single 50 ohm coax cable for Rx, Tx, FSK, Reference and Power from ACU to ADU

ANTENNA CONTROL UNIT

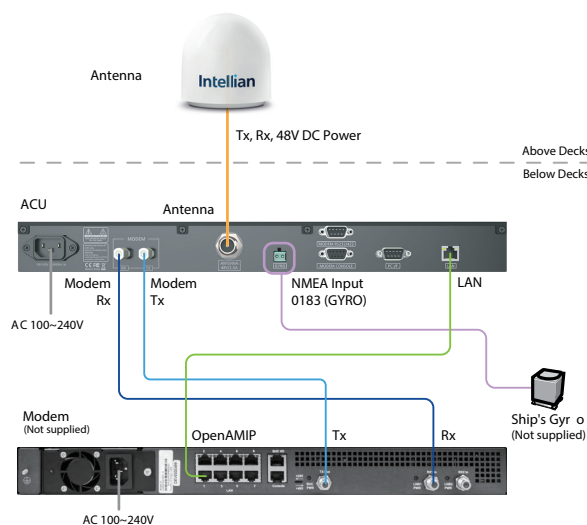
Dimension (WxDxH)	43.1 cm x 35.0 cm x 4.4 cm / 17" x 13.8" x 1.7"
Weight	5.2 kg / 11.5 lbs
LED Indicator	6 LEDs for Power, INT/Search, Tracking, Lock, Setup, Error
Gyrocompass Interface	NMEA0183
Modem Interface	Ethernet port / RS-232C, -422C / I/O Console
Remote Management	Yes
Management Port	Yes
Intellian LAN Port	Yes
Power Requirement	100~240 V AC, 50~60 Hz, 3A

SYSTEM DIMENSION

Unit: mm (inch)



SYSTEM DIAGRAM



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