

Intellian® v65

65cm Ku-Band Marine VSAT Antenna System

All New & High Performance



Superior RF performance

Major RF components are designed by Intellian's engineering team to achieve superior antenna gain and cross-pol isolation over existing 60cm class VSAT systems.

Get the power you need

The v65 comes standard with a 8W EXT BUC that is configurable to support up to 25W. This allows for greater network options and flexibility.

Quick and easy installation

The v65 is delivered without shipping brackets making it easy to test before installing on a vessel without the need to open the radome. Additionally, the radome doesn't need to be removed for connecting to the ACU since the cable connectors are now on the radome base rather than inside providing quick and easy installation.

Gyro-free satellite search capability

Intellian's new generation gyro-free satellite search function enables the v65 to acquire and lock onto the satellite without requiring a separate input from the ship's gyro-compass.

Reliability enhanced

The v65 integrates the GX60 proven stabilization platform into a high performance Ku-band solution. Plus, the v65 has improved tracking precision in a more streamlined product design by incorporating new motors with an encoder and a dynamic motor brake system.

Aptus remote management

The v65 can be accessed, monitored, and controlled from any location in the world. Additionally, routine maintenance activities can be automated. Aptus helps automate firmware upgrades, tracking parameter adjustment, and system diagnosis.

Wireless & Networking connectivity

Wi-Fi connectivity with Intellian Aptus Mobile enables advanced system control and monitoring, including One-Touch satellite library and firmware updates from iOS or Android devices. The Intellian LAN port on the ACU provides easy networking connectivity to other Intellian systems enabling integrated monitoring and control of all Intellian networked devices.

Intellian

Connect with the best

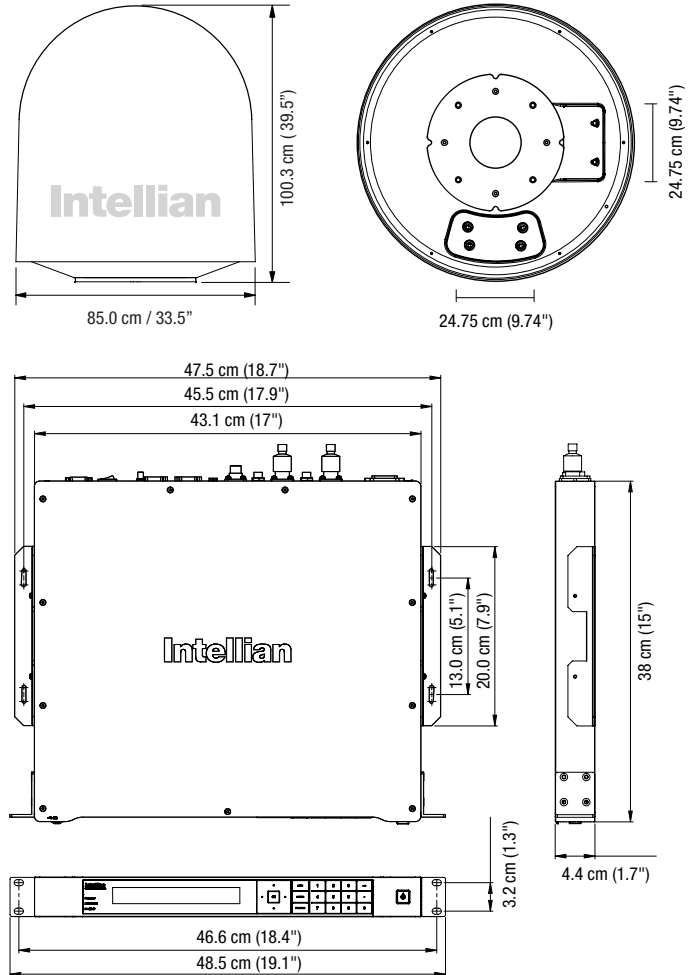
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Technical Specifications

Physical	
Radome Height	100.3 cm / 39.5"
Radome Diameter	85.0 cm / 33.5"
Reflector Diameter	65.0 cm / 25.6"
Weight	59 Kg / 130 lbs (variable w/ RF components)
Stabilized Pedestal Assembly	
Platform	3-axis / Azimuth, Elevation, Cross-level
Azimuth Range	Unlimited
Elevation Range	-20° to +115°
Cross-level Range	±37°
Stabilization Accuracy	0.2° peak mis-pointing @ max ship motion condition
Motor Brake System	Elevation, Cross-level
Reflector & Feed Assembly	
TX Frequency	13.75~14.5GHz Ku-band
TX Gain	37.7 dBi @ Mid band
RX Frequency	10.7~12.75 GHz Ku-band
RX Gain	36.3 dBi @ Mid band
G/T	15.7 dB/K (Clear Sky, 30° Elevation)
BUC	8W EXT (Optional 4W, 8W, 16W, 25W)
LNB	Intellian PLL LNB
Polarization	Linear, Cross-pol only
Antenna Control Unit	
Dimensions (WxDxH)	43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"
Weight	3.5kg / 7.7lbs
Display	2 line 40 character graphic VFD module
Gyrocompass Interface	NMEA0183 / NMEA2000
Modem Interface	Ethernet port / RS-232C / I/O ports
Modem Protocol	iDirect, Comtech, SatLink, Hughes, GILAT
Remote Management	Yes
Wi-Fi Operation	Yes
Management Port	Yes
Intellian LAN Port	Yes
Power Requirement	100~240V AC, 50~60 Hz, 4A

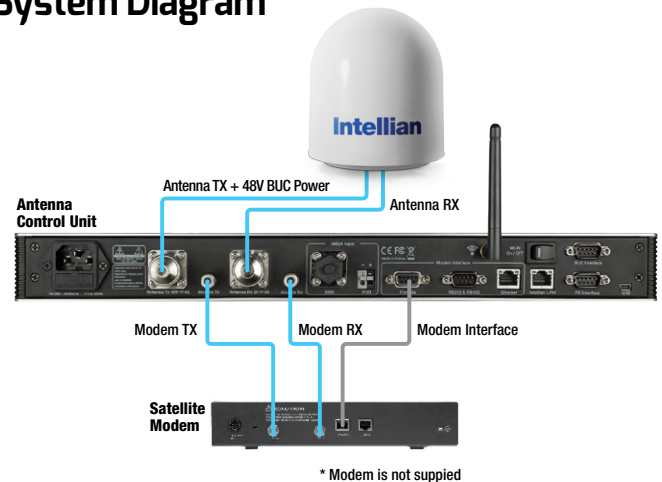
System Dimensions



Antenna Control Unit (ACU) Key Features

• All in one	Embedded power supply
	Supports up to 25W High Power BUC
• Aptus software control	Automatic diagnosis
	Remote firmware upgrade
• Gyro-free Operation	Heading device input not required
	Quick setup to reduce installation time

System Diagram



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