

## **65cm Maritime VSAT Antenna System Ku/Ka-band Convertible**



### **Frequency Mobility Delivered**

The v65 can be converted from Ku-band operation to Ka-band in as little as 10 minutes through use of a compact, intuitive conversion kit (sold separately).

### **Superior RF performance**

Intellian's high efficiency RF design delivers superior antenna gain and cross-pol isolation over all other 60cm class systems, enabling higher data rates and enhanced global services.

### **Get the power you need**

The v65 is designed as a flexible communications platform built to meet the unique needs of any customer while maintaining commonality of spare parts. In Ku-band configuration, the system comes standard equipped with NJRC's 8W EXT Mini BUC, but can also support 4W and 16W variants out of the box. Ka-band configuration includes the NJRC 5W BUC.

### **Quick and easy installation**

Shipped without any stow brackets and now featuring external RF cable connections on the radome base, there is no need to remove the radome of the v65 during installation, saving time and cost. Intellian's Gyro-free satellite search function further simplifies installation by providing the option to track satellites without any input from the ship's gyro-compass.

# **Intellian v65**



### **Reliability enhanced**

The v65 is built upon the well-proven GX60 stabilized platform, currently in service on ships around the world. Additionally, new motors featuring built-in encoders and enhanced dynamic motor brakes deliver improved tracking precision in a more streamlined mechanical design.

### **Aptus remote management**

Aptus, Intellian's proprietary Management & Control software, enables full remote access and control of the system from any device, anywhere in the world. Available via PC, Web and Mobile, Aptus enhances re-mote diagnostics, automates routine processes, and includes a built in spectrum analyzer. the Aptus API enables easy integration directly with the NOC for total fleet-wide visibility.

### **Intellian LAN Capability**

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 through a common, intuitive interface.

# v65 Maritime VSAT Antenna System

Ku/Ka-Band Convertible

**Intellian®**

## Technical Specifications

### Physical

Radome Height	104 cm / 40.9"
Radome Diameter	90 cm / 35.5"
Reflector Diameter	65 cm / 25.6"
Weight	60 Kg / 132 lbs

### 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

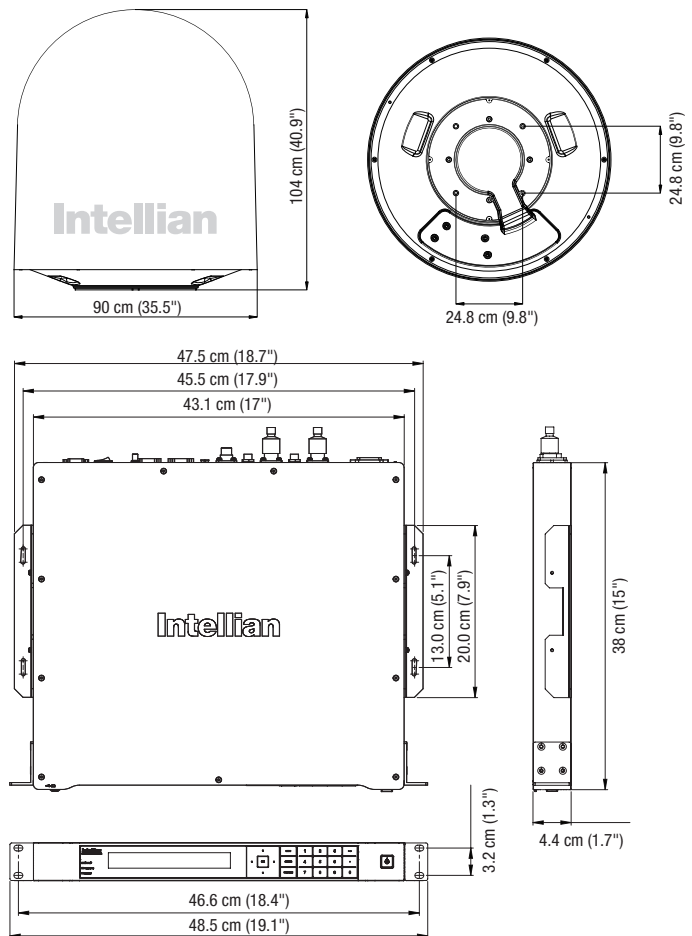
### Reflector & Feed Assembly

	Ku-band	Ka-band
TX Frequency	13.75~14.5GHz Ku-band	29.00~30GHz Ka-band
TX Gain	37.7 dBi @ Mid band	43.75 dBi @ 29.5GHz
RX Frequency	10.7~12.75 GHz Ku-band	19.2~20.2GHz Ka-band
RX Gain	36.3 dBi @ Mid band	40 dBi @ 19.7GHz
G/T	15.7 dB/K (Clear Sky, 30° Elevation)	17 dB/K (Typ.)
BUC	8W, 16W (Optional)	5W Ka-band BUC
LNB	Intellian PLL LNB	Ka-band LNB (L.O. 18.25GHz)
Polarization	Linear, Cross-pol only	Circular, Tx:RHCP / Rx:LHCP

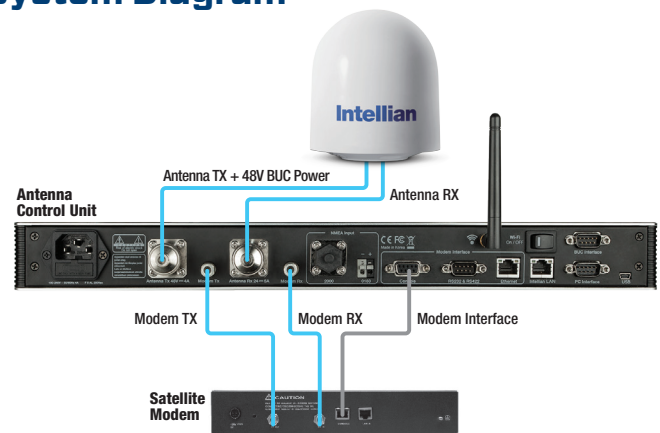
### Antenna Control Unit

Dimensions (WxDxH)	43.1cm x 38.0cm 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



## System Diagram



\* Modem is not supplied

## Antenna Control Unit (ACU) Key Features

- All in one**
  - Embedded power supply
  - Supports up to 16W 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



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