

## 3-axis Ku-band Marine Communication VSAT Antenna System

### Gyro-Free Satellite Search Capability

Intellian's new generation Gyro-free satellite search function enables the v80G to acquire and lock onto a satellite without requiring a separate input from a ship's gyro-compass. If a heading device is available, it can be connected via an NMEA interface.



### Save installation and maintenance time

The simplified design of v80G allows users to install and setup the system without the need for a skilled engineer. Likewise, the v80G's firmware can be updated with an external USB drive, or by Wi-Fi connection. The built in LED lamp inside the radome base provides safer and brighter maintenance environment.

### Networking connectivity

The new Intellian LAN port on the ACU provides networking connectivity to other Intellian systems enabling integrated monitoring and control of all the Intellian networked devices.

### Modem formats

The v80G supports a number of open standards enabling satellite network connectivity.

### Aptus remote management

The v80G 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 including the event history logging feature..

### Combined BUC power and TX signal

The v80G offers a single cable solution that supplies 48V DC power and TX signal together from its control unit via one RF cable. Intellian makes it simpler to install or retrofit.

### Wide elevation angle

The v80G's wide-look angle pedestal is designed for extremely low or high latitude areas, such as the Scandinavian Peninsula or the Equatorial regions. Empower your vessel with the ability to travel far and wide, without the worry of signal loss.

# v80G 3-axis Ku-band

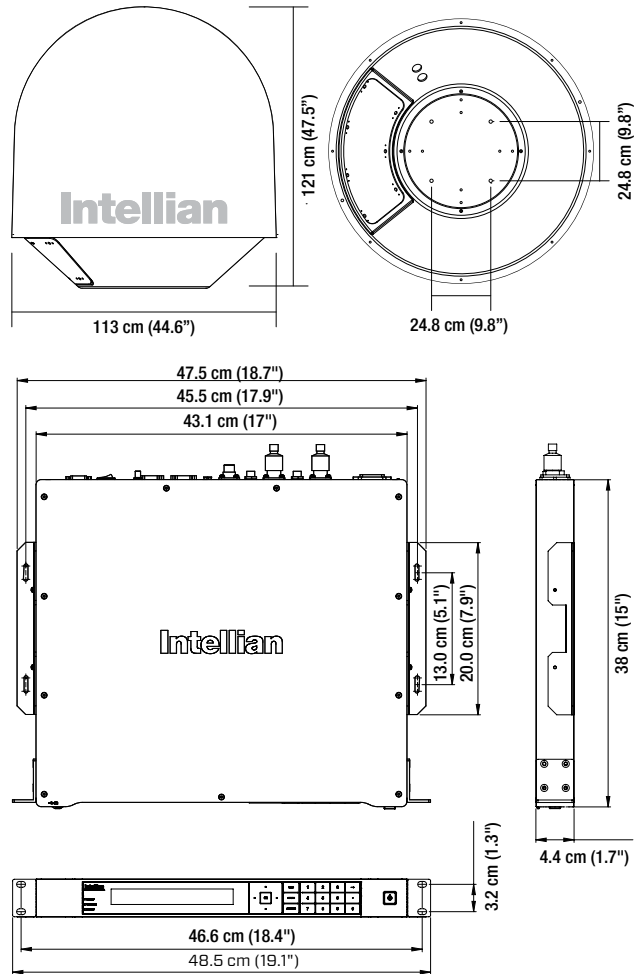
## Marine Communication VSAT Antenna System



### Technical Specifications

Physical	
<b>Radome Height</b>	120.5cm / 47.5"
<b>Radome Diameter</b>	113.3cm / 44.6"
<b>Reflector Diameter</b>	83cm / 32.7"
<b>Weight</b>	89.1kg / 196.4lbs (variable w/ RF components)
Stabilized Pedestal Assembly	
<b>Platform</b>	3-axis : Azimuth, Elevation, Cross-level
<b>Azimuth Range</b>	Unlimited
<b>Elevation Range</b>	-10° to +110°
<b>Cross-level Range</b>	±30°
<b>Stabilization Accuracy</b>	0.2° peak mis-pointing @ max ship motion condition
<b>Motor Brake System</b>	Elevation, Cross-level
Reflector & Feed Assembly	
<b>TX Frequency</b>	13.75-14.56GHz Ku-band
<b>TX Gain</b>	40dBi @ mid band
<b>RX Frequency</b>	10.7-12.75GHz Ku-band
<b>RX Gain</b>	37.6dBi @ mid band
<b>G/T</b>	17.7dB/K (Clear Sky, 30° Elevation)
<b>BUC</b>	4W, 8W, 16W (optional)
<b>LNB</b>	Intellian PLL LNB
<b>Polarization</b>	Cross-pol and Co-pol as standard
Antenna Control Unit	
<b>Dimensions (WxDxH)</b>	43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"
<b>Weight</b>	3.5kg / 7.7lbs
<b>Display</b>	2 line 40 character graphic VFD module
<b>Gyrocompass Interface</b>	NMEA / NMEA 2000
<b>Modem Interface</b>	Ethernet port / RS-232C / I/O ports
<b>Modem Protocol</b>	iDirect, Comtech, SatLink, Hughes, GILAT
<b>Remote Management</b>	Yes
<b>Wi-Fi Operation</b>	Yes
<b>Management Port</b>	Yes
<b>Intellian LAN Port</b>	Yes
<b>Power Requirement</b>	100-240V AC, 50-60 Hz, 4A

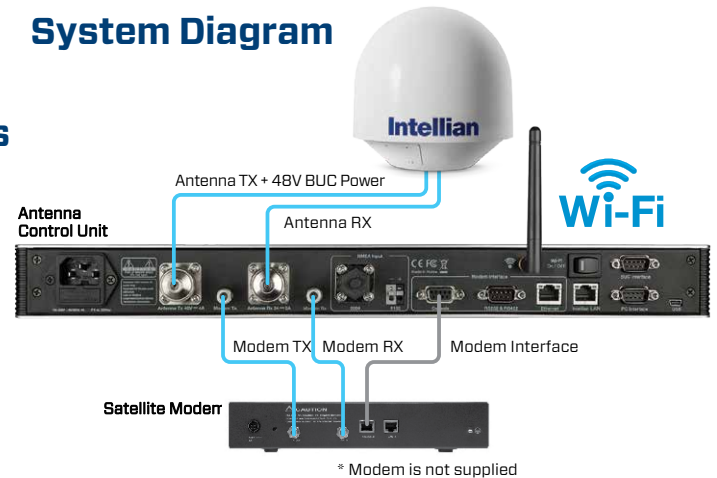
### System Dimension



### ACU (Antenna Control Unit) Key Features

- Firmware updates can easily and reliably be made through the ACU utilizing Intellian's custom updating software.
- Wi-Fi equipped ACU provides convenient connection to the ACU for setup and system monitoring.
- TCP/IP supports a wide range of modem interface format (including Ethernet, Console, RS232).
- Spectrum Analyzer embedded on Aptus software allows real time monitoring of the current satellite signal graph.

### System Diagram



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