

# Intellian® v240C

## *2.4m C-band Circular and Linear Polarization Maritime VSAT Antenna System*



**Intellian® v240C** The Intellian v240C is newest addition to Intellian's line of VSAT Satellite Antennas, featuring patented automatic switching between circular and linear polarization, high-gain parabolic ring focus components, and an ultra-wide elevation angle that provides superb signal clarity virtually anywhere you go, even in extremely low and high latitude regions.

The v240C requires minimal involvement to commission, is easy to operate, and is simple to upgrade and manage. Each unit comes pre-loaded with a ready-to-use, client-customized channel library that can be conveniently tailored further via PC software (also included with the unit), and firmware updates can be done entirely through the ACU. Wi-Fi router enables easy connection and control of the ACU, allowing operators to check the status of the VSAT.

Robust and versatile, the v240C marks an new era for VSAT connectivity on the open water for deep sea vessels that require global coverage. For more information about the v240C, contact Intellian Technologies today.



### **Automatic Polarization Switching**

Featuring patented technology available only on select Intellian models, the v240C allows you to effortlessly and automatically switch between linear and circular c-band polarization, wherever you go, with ease and convenience. Simply select a polarization from the ACU or PC-based control software, and the unit does the rest of the work for you, auto-adjusting itself to receive the desired signal.

### **Wide Elevation Angle**

The v240C's wide-look angle pedestal design is excellently suited 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!

### **Motor Brakes**

Motor brakes on the elevation and cross-level components prevent dish damage from sudden movements and/or shock when the unit is powered off, in transport, or in storage.

### **Easy Installation, Setup and Operation**

With the v240C, installation and setup are easier than ever. Once a satellite's peak signal position is acquired during first-time setup, the unit will automatically re-adjust accordingly every time it boots (bow, home sensor offset, azimuth, and elevation position), saving you huge amounts of time and effort.

### **Antenna Dome Features**

The v240C antenna dome is combined with 12 panels which makes easier to assemble than equivalent products. The unit comes with an optional temperature control assembly that automatically provides the dome enclosure's interior with air conditioned cooling as needed. No matter what the temperature is outside the dome, you can rest assured that the unit will be fully functioning under optimal temperature conditions inside the dome.

**Intellian®**

# Intellian® v240C

## 2.4m C-band Circular and Linear Polarization Maritime VSAT Antenna System

### Technical Specification

Product Model	Specifications
Intellian v240V	3-axis Marine Stabilized C-band Communication Antenna System
<b>Radome &amp; Antenna</b>	
Radome (D x H)	3.3m x 3.52m / 130" x 139"
Dish Diameter	2.4m / 94.5"
Weight	728 kg / 1601 lbs (Radome + Antenna + Steel base + AC) 663 kg / 1458 lbs (Radome + Antenna + Aluminum base + AC)
<b>Stabilized Pedestal Assembly</b>	
Pedestal Type	3-Axis: Azimuth, Elevation, Cross level
Azimuth Range	Unlimited
Elevation Range	-15° to +120°
Cross-level Range	± 30°
Brake System	Elevation, Cross level
Pointing Accuracy	0.2° peak mis-pointing @ max ship motion condition
<b>Reflector &amp; Feed Assembly</b>	
TX Frequency	5.85GHz ~ 6.725GHz
TX Gain	41.7dBi @ 6.18GHz
RX Frequency	3.4GHz ~ 4.2GHz
RX Gain	38.5dBi @ 3.9GHz
Cross-pol isolation	Minimum 35dB
G/T	20 dB/K (Clear Sky, 20° Elevation)
Polarization	Circular & Linear Polarization (Auto-Switchable)

<b>Max Ship's Motion</b>	
Roll / Pitch / Yaw	±25° roll, ±15° pitch, ±15° yaw
<b>Rack Mount Antenna Control Unit</b>	
Size	431mm x 381mm x 44mm / 16.9"x15"x 1.7"
Weight	3kg / 6.6 lbs
Display	2 Line 40 character graphic VFD module
Serial Interface	57,600bps 8, N, 1, RS-232C
Modem Interface	Ethernet / RS-232C / Console
Gyrocompass Interface	NMEA 2000 / 0183
Remote Access	TCP/IP / Wi-Fi
Input Power	90 ~ 260V AC, 47~63Hz

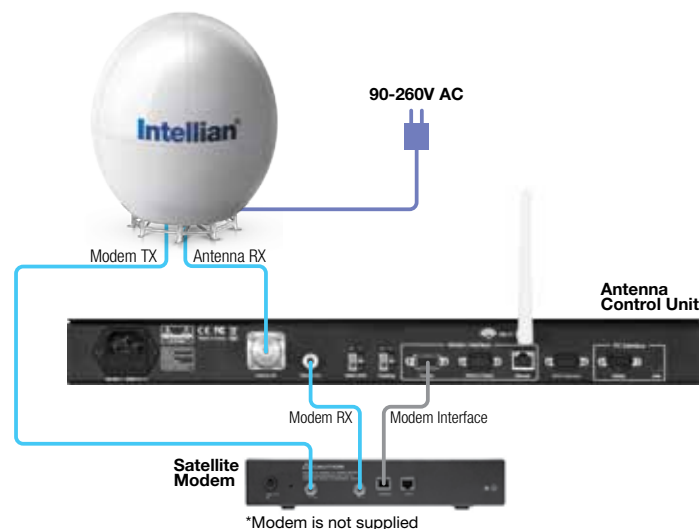
### ACU (Antenna Control Unit) Key Features

Firmware updates can easily and reliably be made through the ACU without any hardware replacements utilizing Intellian's custom updating.

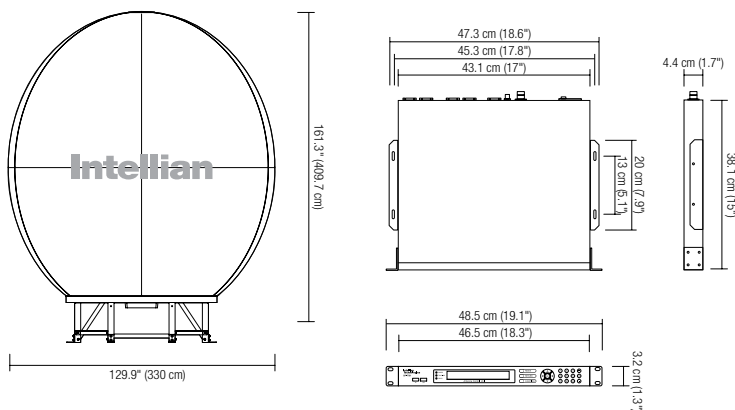
Wi-Fi supported ACU provides convenient connection to the ACU for setup and system monitoring.

TCP/IP supports a wide range of modem interface formats (including Ethernet, console, RS232).

### Basic Configuration



### Antenna Housing and ACU Dimensions



# Intellian®

ISO 9001 Certified  
For more info, visit [intelliantech.com](http://intelliantech.com)

**Americas**  
Intellian Technologies USA, Inc.  
9004 Research Drive  
Irvine, CA 92618, USA  
Tel 949-727-4498  
Toll Free 888-201-9223  
Fax 949-271-4183  
Email [info@intelliantech.com](mailto:info@intelliantech.com)

**Europe**  
Intellian B.V.  
Bristolstraat 1, 3047AB  
Rotterdam, Netherlands  
Tel +31-1-0820-8655  
Fax +31-1-0820-8656  
Email [info@intelliantech.com](mailto:info@intelliantech.com)

**MEA & APAC**  
Intellian Technologies, Inc.  
2F Dongik Bldg., 98 Nonhyun-dong,  
Kangnam-gu, Seoul 135-010, Korea  
Tel +82-2-511-2244  
Fax +82-2-511-2235  
Email [info@intelliantech.com](mailto:info@intelliantech.com)