

Intellian v65

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.

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 remote 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.

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Connect with the best

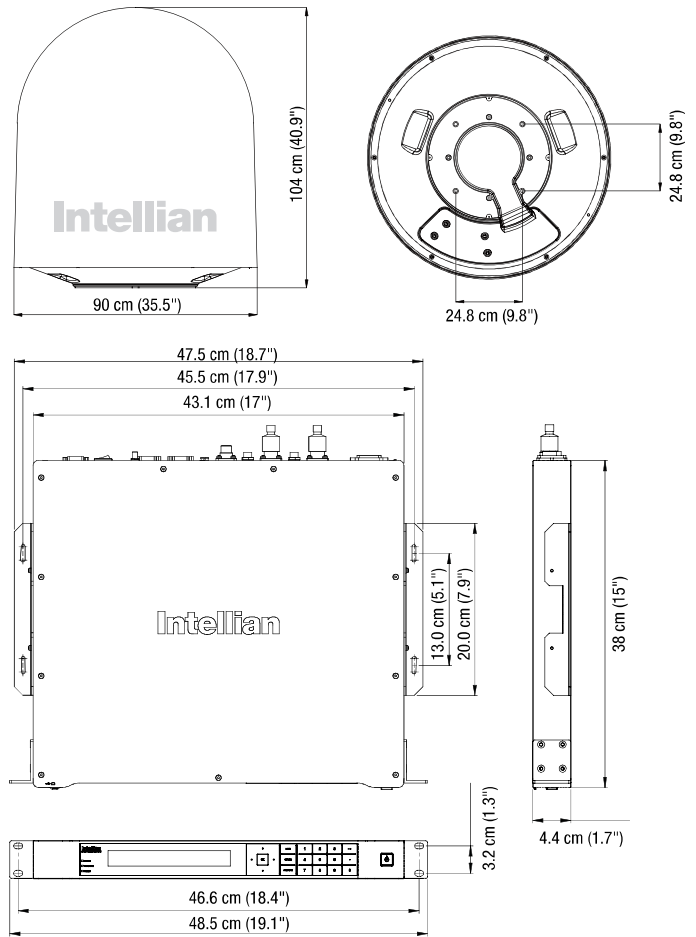
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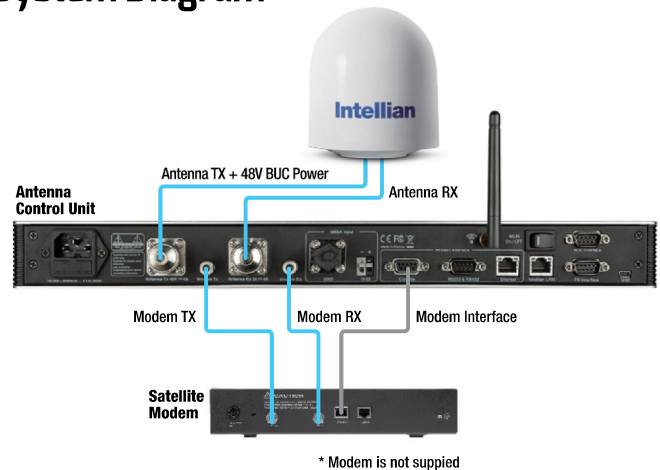
Technical Specifications

| 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 | |
| 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 | 4W, 8W, 16W (Optional) |
| LNB | Intellian PLL LNB |
| Polarization | Linear, Cross-pol only |
| 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



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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