# Intellian v60G

### **Marine Stabilized Ku-band**

3- axis Communication Antenna System with 60cm Reflector Diameter



#### Gyro-free satellite search capability

Intellian's new generation gyro-free satellite search function enables the v60G to acquire and lock onto the satellite without requiring a separate input from the ship's gyro-compass.

#### Aptus remote management

The v60G 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

The built in Wi-Fi enables connectivity with Intellian Aptus Mobile for advanced system control and monitoring, including One-Touch satellite library and firmware updates. 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.



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#### Save installation and maintenance time

The simplified design of v60G allows users to install and setup the system with out the need for a skilled engineer. Additionally, the v60G provides the utmost in reliability resulting in time and cost savings in maintenance.

#### Dual VSAT mediator

An available unit ensuring uninterrupted, always-on broadband communications. Designed to communicate with two Antenna Control Units (ACU) simultaneously, the Dual VSAT Mediator is ideal for redundant antenna environments. The Mediator automates switching between two antenna systems within 60 milliseconds.

#### Combined BUC power and TX signal

The v60G offers a single cable solution that supplies 48V DC power and the TX signal together from its control unit via one RF cable. Intellian makes it simpler to install or retrofit.



## Intellian v60G

#### I Technical Specifications

Radome Height84.5cm / 33.3"Radome Diameter78.0cm / 30.7"Reflector Diameter60.0 cm / 23.6"Weight59.5kg / 131.2lbs (variable w/ RF components)Stabilized Pedestal AssemblePlatform3-axis / Azimuth, Elevation, Cross-levelAzimuth RangeUnlimitedElevation Range10° to 100°Cross-level Range±30°Stabilization Accuracy0.2° peak mis-pointing @ max ship motion conditionMotor Brake SystemElevation, Cross-levelReflector & Feed AssembleTTX Frequency13.75-14.5 GHz Ku-bandTX Gain37dBi @ Mid bandRX Frequency10.95-12.75 GHz Ku-bandStobilizationCross-levelRuncy13.76-14.5 GHz Ku-bandTX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarization43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocolDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesPower Requirement100-240V AC, 50-60 Hz, 4A	Physical	
Reflector Diameter60.0 cm / 23.6"Weight59.5kg / 131.2lbs (variable w/ RF components)Stabilized Pedestal AssemblyPlatform3-axis / Azimuth, Elevation, Cross-levelAzimuth RangeUnlimitedElevation Range-10° to 100°Cross-level Range±30°Stabilization Accuracy0.2° peak mis-pointing @ max ship motion conditionMotor Brake SystemElevation, Cross-levelReflector & Feed Assembly13.75-14.5 GHz Ku-bandTX Gain37dBi @ Mid bandRX Frequency10.95-12.75 GHz Ku-bandRX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control Unit3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocolDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesWi-Fi OperationYesWi-Fi OperationYesWi-Fi OperationYesManagement PortYesManagement PortYesManagement PortYesManagement PortYesManagement PortYesManagement PortYesManagement PortYesManagement PortYesManagement PortYes	Radome Height	84.5cm / 33.3"
Weight59.5kg / 131.2lbs (variable w/ RF components)Stabilized Pedestal AssemutePlatform3-axis / Azimuth, Elevation, Cross-levelAzimuth RangeUnlimitedElevation Range-10° to 100°Cross-level Range±30°Stabilization Accuracy0.2° peak mis-pointing @ max ship motion conditionMotor Brake SystemElevation, Cross-levelReflector & Feed Assembute13.75-14.5 GHz Ku-bandTX Frequency13.75-14.5 GHz Ku-bandTX Gain37dBi @ Mid bandRX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control Unit3.5kg / 7.7lbsWeight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceMIEA / NMEA 2000Modem ProtocolDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesManagement PortYes	Radome Diameter	78.0cm / 30.7"
Stabilized Pedestal AssemblyPlatform3-axis / Azimuth, Elevation, Cross-levelAzimuth RangeUnlimitedElevation Range-10° to 100°Cross-level Range±30°Stabilization Accuracy0.2° peak mis-pointing @ max ship motion conditionMotor Brake SystemElevation, Cross-levelReflector & Feed AssemblyTX FrequencyTX Frequency13.75~14.5 GHz Ku-bandTX Gain37dBi @ Mid bandRX Frequency10.95~12.75 GHz Ku-bandRX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control Unit3.5kg / 7.7lbsDimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesManagement PortYesManagement PortYesNanagement PortYesStablink LAN PortYes	Reflector Diameter	60.0 cm / 23.6"
Platform3-axis / Azimuth, Elevation, Cross-levelAzimuth RangeUnlimitedElevation Range-10° to 100°Cross-level Range±30°Stabilization Accuracy0.2° peak mis-pointing @ max ship motion conditionMotor Brake SystemElevation, Cross-levelReflector & Feed AssemblyTX FrequencyTX Frequency13.75~14.5 GHz Ku-bandTX Gain37dBi @ Mid bandRX Frequency10.95~12.75 GHz Ku-bandRX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control Unit3.5kg / 7.7lbsDimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesManagement PortYesManagement PortYesNational Control Mational PortYes	Weight	59.5kg / 131.2lbs (variable w/ RF components)
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Cross-level Range±30°Stabilization Accuracy0.2° peak mis-pointing @ max ship motion conditionMotor Brake SystemElevation, Cross-levelReflector & Feed AssembJTX GrainTX Gain37dBi @ Mid bandRX Frequency10.95~12.75 GHz Ku-bandRX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control Unit3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesIntellian LAN PortYes	Azimuth Range	Unlimited
Stabilization Accuracy0.2° peak mis-pointing @ max ship motion conditionMotor Brake SystemElevation, Cross-levelReflector & Feed AssemblyTX Frequency13.75~14.5 GHz Ku-bandTX Gain37dBi @ Mid bandRX Frequency10.95~12.75 GHz Ku-bandRX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control Unit3.5kg / 7.7lbsDimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYes	Elevation Range	-10° to 100°
Motor Brake SystemElevation, Cross-levelReflector & Feed AssemblTX Frequency13.75~14.5 GHz Ku-bandTX Gain37dBi @ Mid bandRX Frequency10.95~12.75 GHz Ku-bandRX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control Unit3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesIntellian LAN PortYes	Cross-level Range	±30°
Reflector & Feed AssemblyTX Frequency13.75~14.5 GHz Ku-bandTX Gain37dBi @ Mid bandRX Frequency10.95~12.75 GHz Ku-bandRX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control Unit3.5kg / 7.7lbsDimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesIntellian LAN PortYes	Stabilization Accuracy	$0.2^\circ$ peak mis-pointing @ max ship motion condition
TX Frequency13.75~14.5 GHz Ku-bandTX Gain37dBi @ Mid bandRX Frequency10.95~12.75 GHz Ku-bandRX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control Unit3.5kg / 7.7lbsDimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesIntellian LAN PortYes	Motor Brake System	Elevation, Cross-level
TX Gain37dBi @ Mid bandRX Frequency10.95~12.75 GHz Ku-bandRX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control Unit3.5kg / 7.7lbsDimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	Reflector & Feed Assembly	
RX Frequency10.95~12.75 GHz Ku-bandRX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control UnitJintellian PLL LNBDimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	TX Frequency	13.75~14.5 GHz Ku-band
RX Gain35.6dBi @ Mid bandG/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control UnitJintellian PLL LNBDimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	TX Gain	37dBi @ Mid band
G/T15.0dB/K (Clear Sky, 30° Elevation)BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control UnitJimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	RX Frequency	10.95~12.75 GHz Ku-band
BUC4W, 8W, 16W (optional)LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control Unit1Dimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesIntellian LAN PortYes	RX Gain	35.6dBi @ Mid band
LNBIntellian PLL LNBPolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control UnitDimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesIntellian LAN PortYes	G/T	15.0dB/K (Clear Sky, 30° Elevation)
PolarizationCross-pol & Co-pol / Cross-pol onlyAntenna Control UnitDimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesIntellian LAN PortYes	BUC	4W, 8W, 16W (optional)
Antenna Control UnitDimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	LNB	Intellian PLL LNB
Dimensions (WxDxH)43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	Polarization	Cross-pol & Co-pol / Cross-pol only
Weight3.5kg / 7.7lbsDisplay2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	Antenna Control Unit	
Display2 line 40 character graphic VFD moduleGyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	Dimensions (WxDxH)	43.1cm x 38.1cm x 4.4cm / 17" x 15" x 1.7"
Gyrocompass InterfaceNMEA / NMEA 2000Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	Weight	3.5kg / 7.7lbs
Modem InterfaceEthernet port / RS-232C / I/O portsModem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	Display	2 line 40 character graphic VFD module
Modem ProtocoliDirect, Comtech, SatLink, Hughes, GILATRemote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	Gyrocompass Interface	NMEA / NMEA 2000
Remote ManagementYesWi-Fi OperationYesManagement PortYesIntellian LAN PortYes	Modem Interface	Ethernet port / RS-232C / I/O ports
Wi-Fi OperationYesManagement PortYesIntellian LAN PortYes	Modem Protocol	iDirect, Comtech, SatLink, Hughes, GILAT
Management Port Yes   Intellian LAN Port Yes	Remote Management	Yes
Intellian LAN Port Yes	Wi-Fi Operation	Yes
	Management Port	Yes
Power Requirement 100~240V AC, 50~60 Hz, 4A	Intellian LAN Port	Yes
	Power Requirement	100~240V AC, 50~60 Hz, 4A

#### Key Features

• Gyro-free Operation

Aptus software control

#### Without requiring heading device input Quick setup to reduce installation time Fail safe redundancy Built-in web interface Automatic diagnosis Remote firmware upgrade Antenna monitor & control

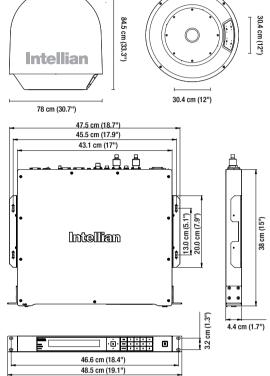


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Marine Satellite Antenna Systems

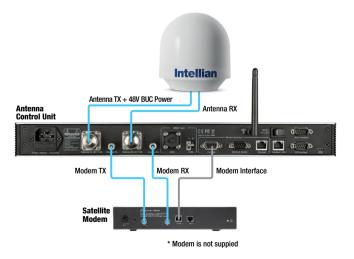
60cm Ku-band 3-axis

System Dimensions



#### System Diagram

Two coaxial cables from antenna to ACU 8W BUC power through antenna TX line. No ship gyrocompass connection required.



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