## Intellian



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# t100W

**World's First & Only Global Satellite TV Service Reception** 1.05m Stabilized Ku-band Marine Satellite Antenna



### Global Satellite Services Compatibility

Intellian t100W provides the ultimate convenience to connect you up to thousands of Free TV, Pay TV, Standard Definition, and High Definition programming all over the world with one LNB module which incorporates multi (8) LO frequencies.

#### Matching Dome Solution

The t100W's radome matches the styling of Intellian's v100GX VSAT antenna, making the two a perfect solution for larger yachts or wherever there is an emphasis on symmetrical design. The v100GX is one of the most popular VSAT antennas on the market today, making the t100W a convenient choice.

#### Intelligent Signal Distribution

t-Series systems now feature an embedded Quattro Switching Module, which intelligently distributes different tone signals to the correct ports on any legacy multiswitches installed throughout the ship. No need for reconfiguring anything below deck apart from the ACU.

### Global Satellite Library

The t100W includes the pre-programmed global satellite library which allows users to select the desired satellite while travelling from region to region. Once the satellite is selected the WorldView LNB module will automatically switch to the corresponding local frequency to receive the signal.

#### Dedicated Management Ethernet Port

The Management Ethernet Port on the front of ACU enables direct and simple network connection between a PC and the ACU. The Management Port supports DHCP network connection by default, allowing automatic IP configurations and quick access to Intellian's remote management solution, Aptus Web.

#### Wireless Connectivity

The built-in Wi-Fi enables the ACU to be wirelessly connected and can be either turned on and off by a switch. Any kind of wireless devices such as PCs, laptops and smartphones can be used to connect to the ACU and monitor, control and change the settings of the system wirelessly.

## **t100W 1.05m Ku-band 3-axis** Marine Satellite Antenna Systems

### **I** Technical Specifications

Physical			
Radome Height	151.4cm / 59.63"		
Radome Diameter	138cm / 54.33"		
Reflector Diameter	105cm / 41.3"		
Weight	93.9kg / 207lbs		
Environmental			
Operating Temp. Range	-25°C to +55°C / -13°F to +131°F		
Storage Temp. Range	-40°C to +80°C / -40°F to +176°F		
Water Ingress	IPX6		
Approvals	CE / FCC		
Warranty	3 year parts and 2 year labor		
Performance			
<b>Reception Frequency</b>	Ku-band (10.7~1	Ku-band (10.7~12.75GHz)	
Polarization	Circular / Linear auto-switchable		
Minimum EIRP	42dBW		
Azimuth Range	680°		
Elevation Range	-15° to +120°		
Ship's Motion	Roll $\pm 25^{\circ}$ , Pitch $\pm 15^{\circ}$ , Yaw $\pm 8^{\circ}$ @ 6 sec period		
Turning Rate	Up to 12°/sec & 5°/sec <sup>2</sup>		
RF Output	Dual / Quad Output		
Antenna Control Unit	t		
Dimensions (WxDxH)	43.1cm x 38cm x 4.4cm / 17" x 15" x 1.7"		
Weight	3.5kg / 7.7lbs		
Display	2 line 40 Character VFD module		
GPS Interface	Built-in (NMEA 0183 GPS)		
Power Requirement	100~240V AC, 50~60Hz, 2A		
Power Consumption	Typ.50W, Max. 100W		
<b>LNB LO Frequencies</b>			
Local Oscillator Frequency	Polarization	Area	
11.250 GHz	Dual Circular	North America, Russia	
10.500 GHz	Dual Circular	Latin America	
10.750 GHz	Single Circular	Korea	
10.750 GHz	Dual Circular	China	
10.678 GHz	Single Circular	Japan	
		0 11 5 1 4 1	

#### System Diagram



#### \*Receivers are not supplied

#### Coverage Map



#### LNB stability: ±10 kHz (Except at Universal 9.75 GHz)

· LNB LO frequencies can be extended

Note LNB LO frequencies are automatically changed according to target satellites

Polarization can be switched between circular and linear

Dual Linear

Dual Linear

Quad Linear

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11.300 GHz

10.700 GHz

Universal

Low: 9.75 GHz High: 10.6 GHz

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