

# t110W

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



## Global Satellite Services Compatibility

Intellian t110W 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.

## DVB-S2 Digital TV Reception

Some of the HD TV services have moved onto DVB-S2, and there will be more in the future. Thanks to Intellian's groundbreaking DVB-S2 digital TV technology, now boaters are able to enjoy their favorite DTH (Direct To Home) entertainment at sea, just like home.

## 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 t110W includes the pre-programmed global satellite library which allows boaters 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

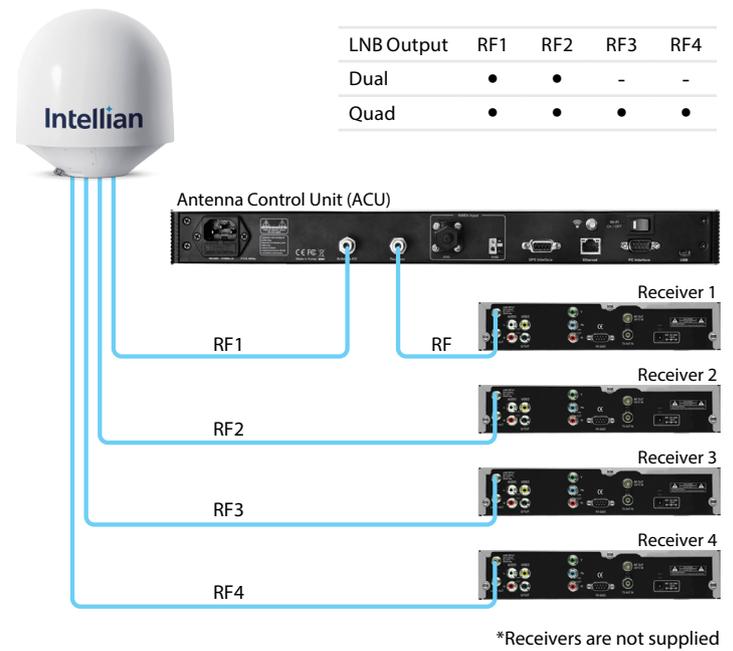
The built-in Wi-Fi enables the ACU to be wirelessly connected and can be either turned on and off by a switch. Any kind of wireless devices such as PCs, laptops and smartphones can be used to connect to the ACU and monitor, control and change the settings of the system wirelessly.

# t110W 1.05m Ku-band 3-axis Marine Satellite Antenna Systems

## Technical Specifications

Physical		
Radome Height	142cm / 55.9"	
Radome Diameter	133cm / 52.4"	
Reflector Diameter	105cm / 41.3"	
Weight	91kg / 201lbs	
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		
Reception Frequency	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 ±25°, Pitch ±15°, Yaw ±8° @ 6 sec period	
Turning Rate	Up to 12°/sec & 5°/sec <sup>2</sup>	
RF Output	Dual / Quad Output	
Antenna Control Unit		
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	
LNB LO Frequencies		
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
11.300 GHz	Dual Linear	South East Asia
10.700 GHz	Dual Linear	Australia
Universal Low: 9.75 GHz High: 10.6 GHz	Quad Linear	Europe, Middle East, Africa, some Asia countries
<b>Note</b>	<ul style="list-style-type: none"> <li>• LNB stability: ±10 kHz (Except at Universal 9.75 GHz)</li> <li>• LNB LO frequencies can be extended</li> <li>• LNB LO frequencies are automatically changed according to target satellites</li> <li>• Polarization can be switched between circular and linear</li> </ul>	

## System Diagram



## Coverage Map



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