



AL-7109 2.8m C-Band Marine Stabilized Tx/Rx System

2-Way Fast Broadband - Wherever You Are, Whatever The Weather

Specially designed to provide unbroken connectivity while crossing mid-ocean or in equatorial areas with heavy rains, AL-7109 ensures superior 2-way high-speed broadband communications at all times, to all aboard ship. Delivering vital communication and entertainment systems - telephone, Internet, streaming video, data, GSM cellular, fax, videoconference and more - the state-of-the-art AL-7109 is deployed by Orbit's commercial, private and military customers around the globe.



Designed for the full spectrum of cargo, cruise ships & ferries, tankers, fishing boats, oil & gas rigs, buoys, combat vessels, and other maritime vessels, AL-7109 is part of Orbit's proven Marine Stabilized Satellite Communication Systems.

With cost-effective modular design covering various RF packages and multiple modem compatibility, the advanced AL-7109 system has a 2.8m antenna that stabilizes three axes to maintain boresight and linear & circular polarization towards C-Band satellites to enable worldwide coverage for the very best in 2-way communications.

Backed by over 50 years of global experience and internationally deployed engineering teams providing RF mechanical and functional adaptation support, Orbit's modular, flexible AL-7109 is a comprehensive solution for today's wide-ranging maritime needs.

Benefits

- Global Coverage
- Stable & Efficient Communication
- No System Balancing Needed
- Enhanced Performance
- User Friendly Operation
- Innovative Tracking Technology
- Robust Design
- Proven Reliability (High MTBF)
- High Dynamic Accuracy
- Supports Various RF Packages & Modems

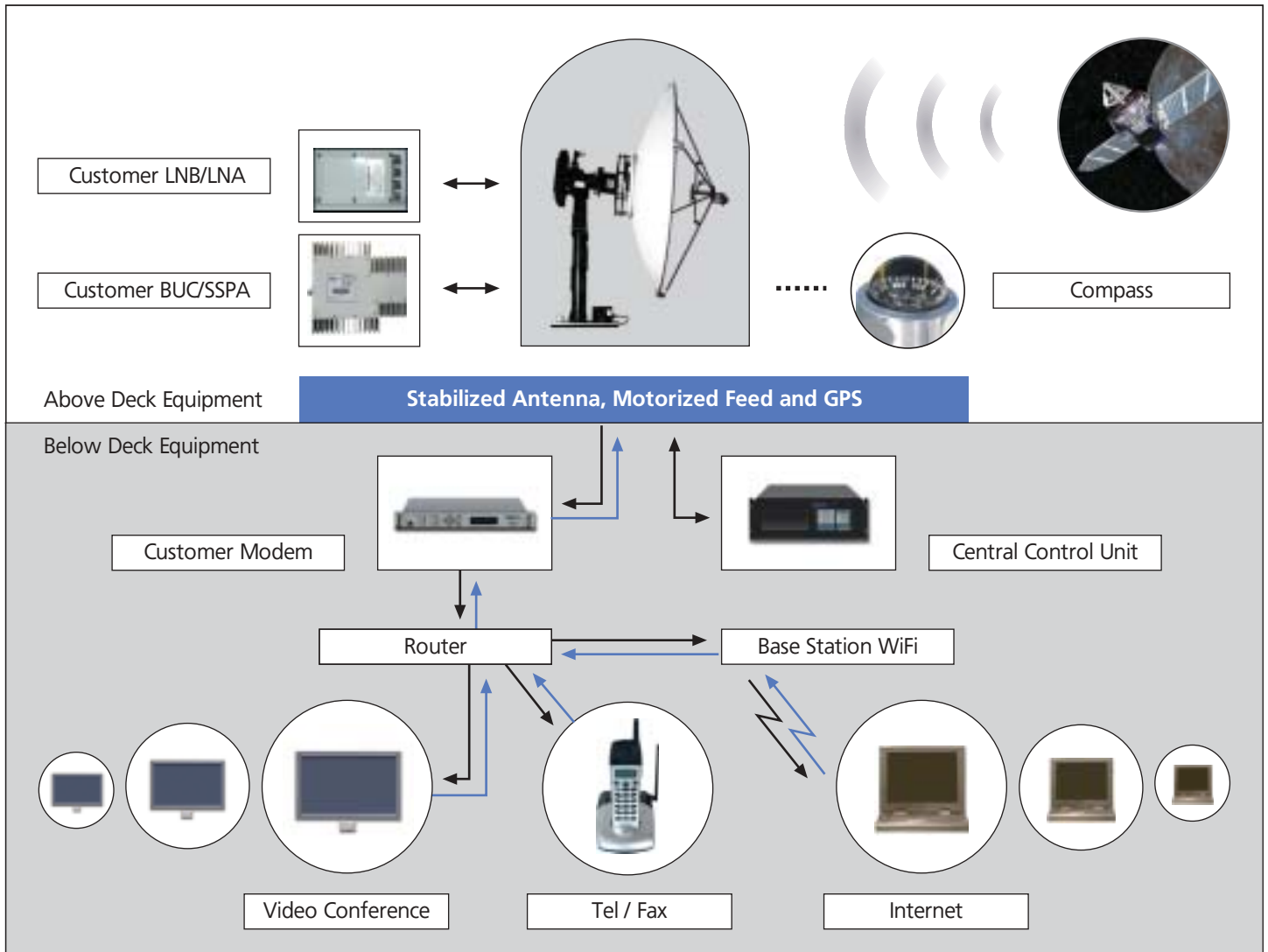
Key Features

- High Resolution LCD Controller
- Designed to meet MIL-STD-461, 167-1 & 901
- Global Satellite Coverage Database
- Optional: Remote Operation via Telephone Link
- Supports NMEA-0183, Step by Step & Synchro Compass Interfaces
- Built-In GPS Antenna



System Specifications

Antenna Type		Power Requirements	110/220 VAC, 50/60 Hz 1800W (ADE), 200W (BDE)
Rx:	Cassergain	Weight (ADE including Radome)	1380Kg / 3036Lb
Tx:	Prime Focus	Dynamic Accuracy	0.1° RMS
Dish Diameter	2.8m / 110"	Ship Motion:	
Radome Size	4.9m / 193"	Roll	30° @ 8 Sec
Operation Frequency	Tx: 5.9 to 6.4 GHz Rx: 3.7 to 4.2 GHz	Pitch	15° @ 6 Sec
Antenna Polarity	Circular (L/R) or Linear (H/V)	Yaw	80° @ 50 Sec
Antenna Gain (Typical)	Tx: 42dB @ 6.15 GHz Rx: 38.5dB @ 3.95 GHz	Turning Rate	10°/Sec
System G/T (Typical)	18.5dB/K @ 3.95 GHz	Modem Interfaces: L-Band	70 or 140 MHz
Cross-Pol Isolation @Tx	30dB min		



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