



AL-7108 2.4m C-Band Marine Stabilized Tx/Rx System

Superior 2-Way High-speed Broadband For Global Deployment

Specially designed to provide continuous connectivity in mid-ocean or in equatorial areas with heavy rains, Orbit Marine's AL-7108 system ensures superior 2-way high-speed broadband communication for vital onboard communication and entertainment services.

With cost-effective modular design covering various RF packages and multiple modem compatibility, Orbit's advanced AL-7108's 2.4m circular C-Band antenna delivers global satellite Tx/Rx to offshore and other marine environments.



Providing onboard phone, Internet, streaming video, data, GSM cellular, fax and videoconference systems for cargo, cruise ships & ferries, tankers, fishing boats, oil & gas rigs, buoys & combat vessels, the state-of-the-art AL-7108 is globally deployed by Orbit's commercial, private and military customers.

Using superior stabilizing capabilities, AL-7108's circular polarization maintains boresight directed towards C-Band satellites to provide the best in 2-way communication coverage.

Backed by over 50 years of experience and internationally deployed teams of highly skilled engineers, the comprehensive AL-7108 is at the core of Orbit's product line - one of the company's leading solutions for today's expanding maritime needs.

Benefits

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

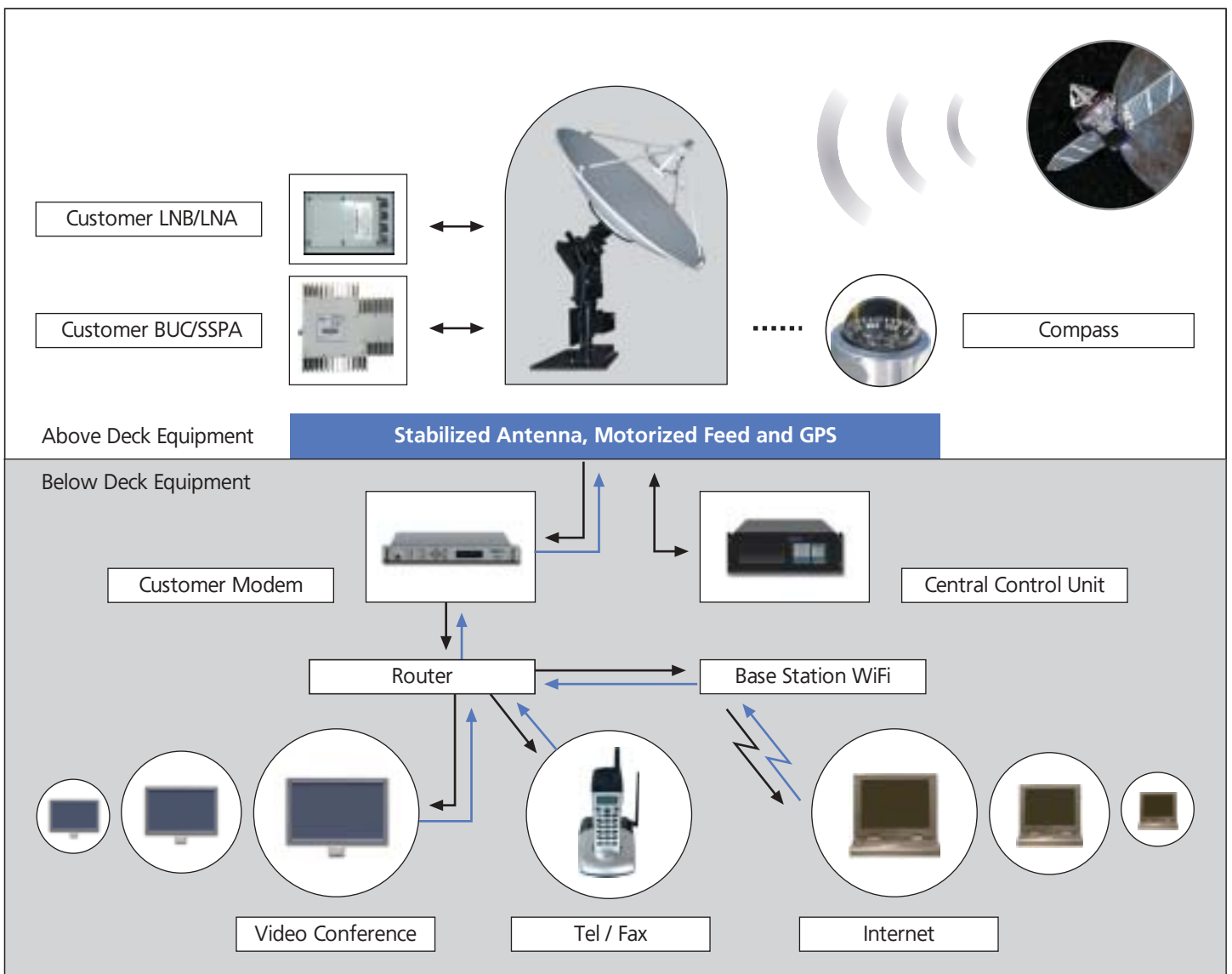
Key Features

- 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	Prime Focus	Power Requirements	110/220 VAC, 50/60 Hz 1800W (ADE), 200W (BDE)
Dish Diameter	2.4m / 96"	Weight (ADE including Radome)	1150Kg / 2530Lb
Radome Size	4.5m / 177"	Dynamic Accuracy	0.1° RMS
Operation Frequency	Tx: 5.9 to 6.4 GHz Rx: 3.7 to 4.2 GHz	Ship Motion:	
Antenna Polarity	Circular (L/R)	Roll	30° @ 8 Sec
Antenna Gain (Typical)	Tx: 41.5dB @ 6.15 GHz Rx: 38.5dB @ 3.95 GHz	Pitch	15° @ 6 Sec
System G/T (Typical)	17.5dB/K @ 3.95 GHz	Yaw	80° @ 50 Sec
CrossPol Isolation@Tx	27dB min	Turning Rate	10°/Sec
		Modem Interfaces: L-Band	70 or 140 MHz



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