



AL-7106 1.8m C-Band Marine Stabilized Tx/Rx System

Superior 2-Way High-speed Broadband System



Specially designed to provide continuous connectivity in mid-ocean or in equatorial areas with heavy rains, Orbit Marine's AL-7106 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, the advanced AL-7106 system present an optimal cost/performance solution at sea.

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-7106 is a cost-effective solution globally deployed by Orbit's commercial, private and military customers.

Using superior stabilizing capabilities, AL-7106's circular or linear polarization maintains boresight directed towards C-Band satellites to provide the best in 2-way communication coverage.

Backed by over 50 years of global experience and internationally deployed teams of highly skilled engineers, the comprehensive AL-7106 is at the core of Orbit's product line - one of the company's leading solutions for today's expanding maritime needs.

Benefits

- 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

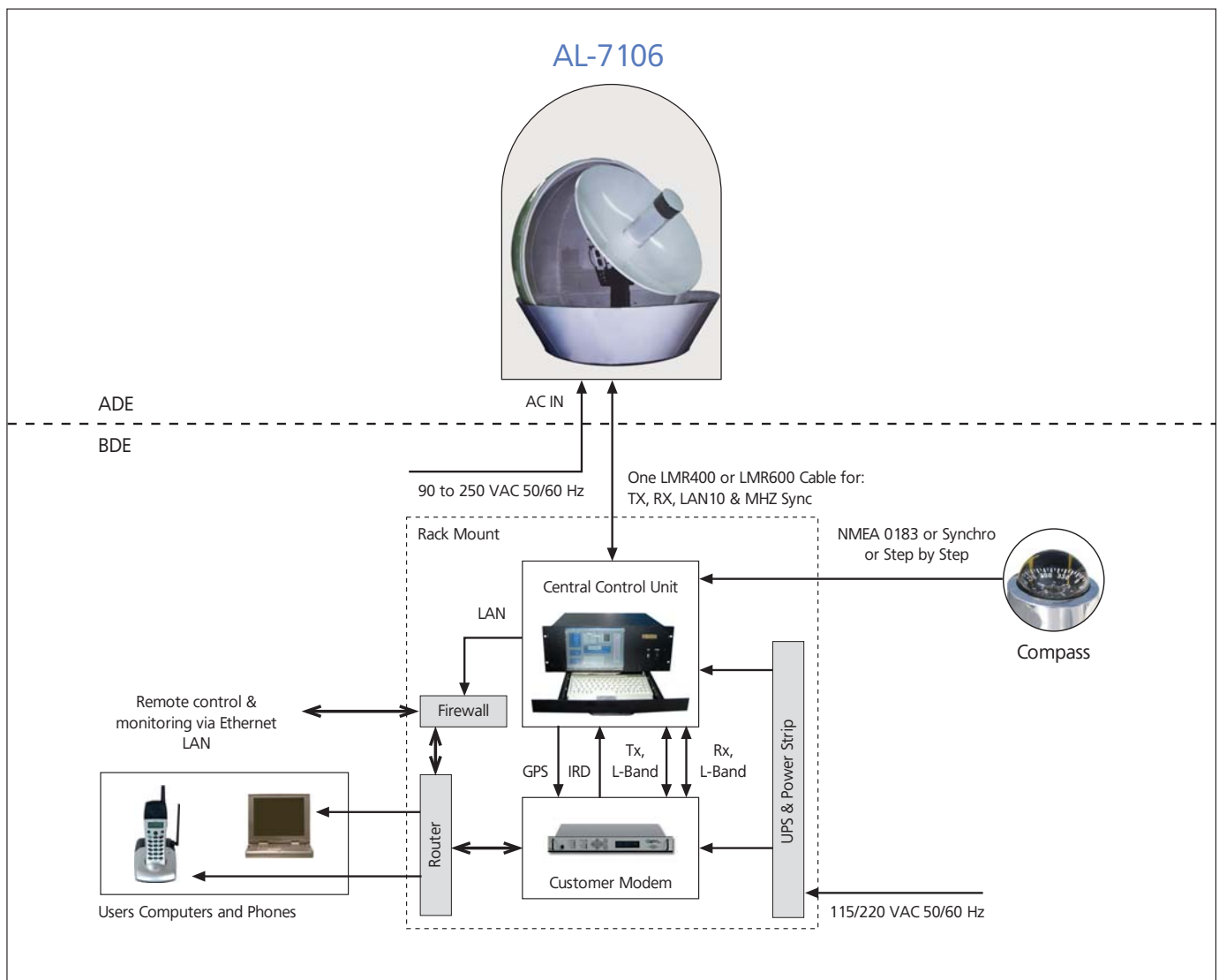
Key Features

- High-Resolution LCD Controller
- Designed to Meet MIL-STD-461/167-1 & 901
- Global Satellite Coverage Database
- Supports NMEA-0183, Step by Step & Synchro Compass Interfaces
- Built-In GPS Antenna
- Remote control & monitoring via Ethernet Lan
- Built-in NBR (Narrow Band Receiver)
- Above & Below Deck connection via a single coax cable using MUX technology



System Specifications

Antenna Type	Cassagrain	Power Requirements	110/220 VAC, 50/60 Hz 1200W (ADE), 200W (BDE)
Dish Diameter	1.8m / 71"	Weight (ADE including Radome)	700Kg / 1,540Lb
Radome Size	D: 2.8m / 110" H: 2.6m / 102"	Dynamic Accuracy	0.1° RMS
Operation Frequency	Tx: 5.7 to 6.5 GHz Rx: 3.4 to 4.2 GHz	Ship Motion:	
Antenna Polarity	Circular (L/R) or Linear (V/H)	Roll	30° @ 8 Sec
Antenna Gain (Typical)	Tx: 38.6dB @ 6.15 GHz Rx: 34.7dB @ 3.95 GHz	Pitch	15° @ 6 Sec
System G/T (Typical)	14.2dB/K @ 3.95 GHz	Yaw	80° @ 50 Sec
Cross-Pol Isolation@Tx	30dB	Turning Rate	10° / Sec
		Modem Interfaces:	L-Band / 70 & 140 MHz



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