



## AL-7108



### 2.4m (96") C-Band Marine Stabilized Tx/Rx System

#### Broadband for Global Deployment

- Superior 2-way, high-speed broadband communication for vital onboard communication and entertainment services
- Designed to provide continuous connectivity in mid-ocean and/or in equatorial areas, subject to heavy rains.

#### Minimum Cost, Maximum Compatibility

- Cost-effective modular design covering various RF packages and multiple modem interfaces
- Delivers global satellite Tx/Rx communication to offshore and all other marine environments.

#### Multiple Services

- Providing onboard telephone, internet, streaming video, data, cellular connectivity, fax and videoconference services for cargo, cruise ships & ferries, tankers, fishing boats, oil & gas rigs and combat vessels
- Globally deployed by Orbit's commercial, private and military customers
- Maintains bore sight directed towards C-Band satellites to provide the optimal 2-way communication coverage.

#### Ku-band Upgrade Option

- A single platform for C-Band or Ku-band linear configuration by switching the system's feed and RF front-end assemblies - no RF realignment required
- Ku-Band configuration compliant with ANATEL.

#### FEATURING

- X/Y configuration, continuous azimuth rotation
- User-friendly interface, high-resolution LCD controller
- High dynamic accuracy
- Built-in GPS
- Supports a wide range of RF packages & modems
- Proven reliability (MTBF)
- Does not require a system balancing
- Stable & efficient communication
- Global satellite coverage database
- Innovative tracking technology
- **Optional:** Ku-Band linear feed assembly
- **Optional:** Remote access for monitoring and control

*Orbit is a world leading supplier of innovative satellite communications solutions as well as tracking, audio and communications management systems. The company's products are deployed on board airborne, marine and ground platforms with both military and commercial customers and are installed on thousands of projects with companies and organizations worldwide.*

*Orbit, a public company, has an international marketing and sales network that includes the United States, Europe, and the Far East in addition to its international technical service centers located around the world.*

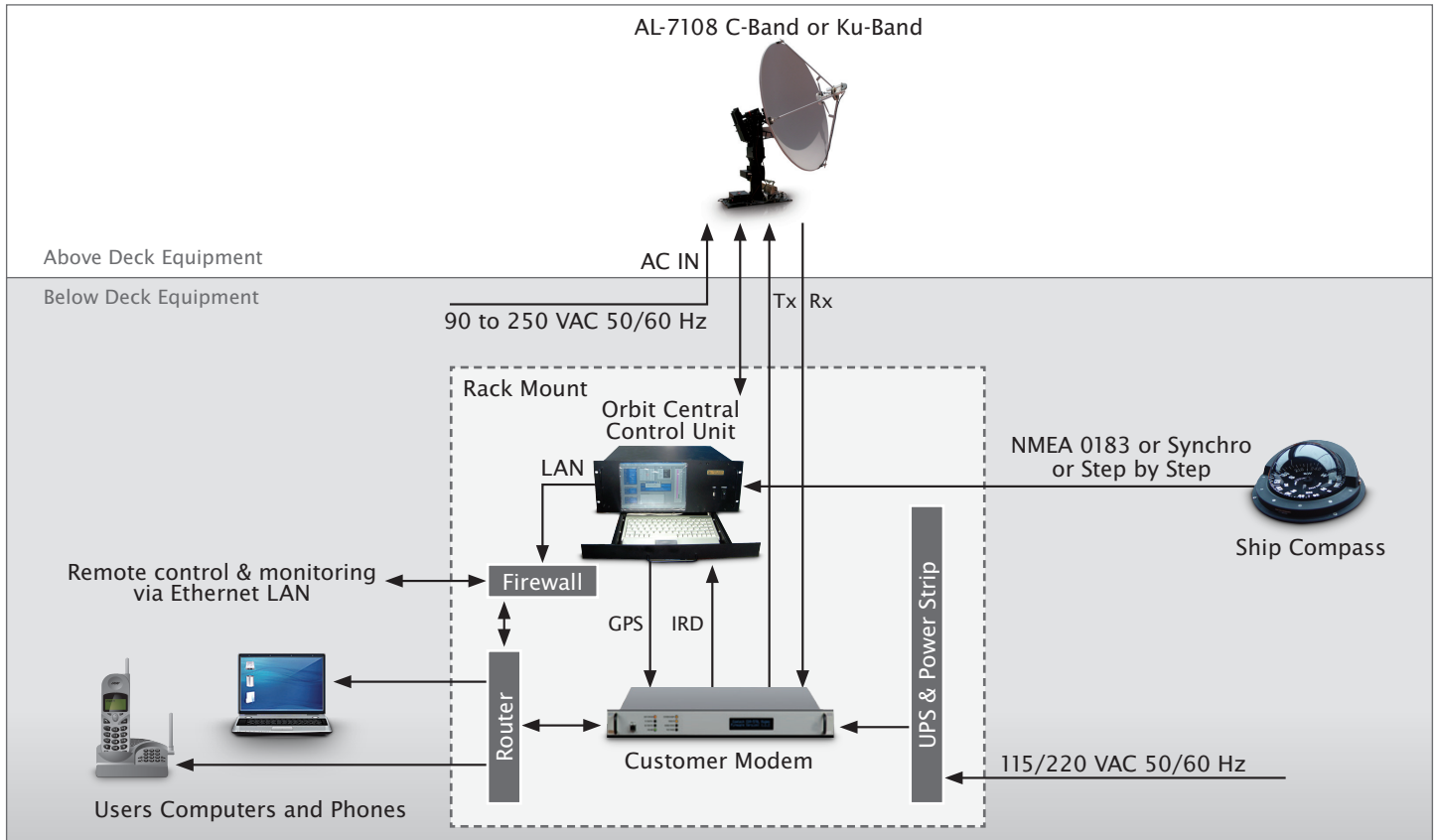
### ORBIT AL-7108 C-Band or Ku-Band Technical Specifications

<b>Antenna Type</b>	Prime Focus
<b>Antenna Size</b>	2.4m / 96"
<b>Radome Size</b>	4.5m / 177"
<b>Dynamic Accuracy</b>	0.1° RMS
<b>Dynamics: Roll Pitch Yaw Turning Rate</b>	30° @ 8 Sec 15° @ 8 Sec 80° @ 50 Sec 10°/Sec
<b>Ship Gyro Interface</b>	NMEA 0183, Step by Step, Synchro
<b>Modem Interface</b>	L-Band 70 or 140 MHz
<b>System Weight (including Radome)</b>	1150Kg / 2530lb
<b>Operation Frequency</b>	Tx: 5.9 to 6.4 GHz Rx: 3.7 to 4.2 GHz

<b>Antenna Polarity</b>	Circular (L/R)
<b>Antenna Gain</b>	Tx: 40.8dB @ 6.15 GHz Rx: 37.5dB @ 3.95 GHz
<b>System G/T</b>	17.5dB/K @ 3.95 GHz
<b>System EIRP</b>	51.6dBW (for 20W BUC) 54.6dBW (for 40W BUC)
<b>Power Requirements</b>	110/220 VAC, 50/60 Hz 1800W (ADE), 200W (BDE)
<b>CrossPol Isolation@Tx</b>	27dB
<b>Environmental Conditions (Designed to Meet)</b>	Shock: MIL-STD 810E Method 516.5 Pro.I Vibration: MIL-STD-167-1 (Mast Mounted Equipment) Temperature: - Operation: -25°C +55°C with Radome, as per IEC 60945:2002 Dry Heat, Low Temp - Storage: -25°C to +70°C Wind: Up to 100 knots Humidity: IEC 60945:2002-Damp Heat Humidity 93% (+/-3%) @ 40°C

\* On site Ku-band Upgrade RF kit, includes: Feed, Motorized feed & front end (OMT, TRF, etc.), Global LNB, BUC, Accessories.

### Typical Block Diagram



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