ORBIT
COMMUNICATION WITHOUT BOUNDARIES

AL-7207

2.0m (80”)
Quad Ku-Band & Dual C-Band
Marine Stabilized TVRO System

Global Satellite TV Reception

- Robust, high performance 2.0m (80”) linear & circular Ku-Band & C-Band antenna system
- Worldwide coverage and continuous broadband satellite television reception
- Cost-effective modular design features multiple receiver interfaces enabling superior entertainment for global commercial, private and military customers.

Worldwide, Uninterrupted Coverage

Ideal for cross-oceanic or equatorial-based vessels which have to withstand the communication challenges caused by heavy rain.

Ideal Solution for Larger Vessels

- Designed for both military & commercial applications
- Deployed aboard cargo & cruise ships, tankers, oil & gas rigs, navies and a variety of other marine vessels, worldwide.

FEATURING

- Ku-Band & C-Band integrated feed assembly
- LNB - Quad Ku-Band & Dual C-band – Single and seamless connection between ADE and BDE for all 6 cables - no manual intervention
- Pol/X/Y configuration, continuous azimuth rotation
- User-friendly interface, high-resolution LCD controller
- Built-In GPS
- Proven reliability (MTBF)
- Enhanced performance
- Field proven
- Does not require a system balancing
- Robust design
- Fast installation
- Global satellite coverage database
- **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-7207 Ku-Band and C-band Technical Specifications

Antenna Type	Prime Focus
Antenna Size	2.0m / 80”
Radome Size	2.9m / 114”
Dynamic Accuracy	0.1° RMS
Dynamics: **Roll** **Pitch** **Yaw** **Turning Rate**	 30° @ 8 Sec 15° @ 8 Sec 80° @ 50 Sec 10°/Sec
Ship Gyro Interface	NMEA 0183, Step by Step, Synchro
System Weight (including Radome)	565Kg / 1245lb
Operation Frequency	3.7 - 4.2Ghz 10.7 - 12.75Ghz

Antenna Polarity	Linear (V/H), Circular (L/R)
Antenna Gain (Typical)	37dB @ 4.2Ghz 46dB @ 12.75Ghz
System EIRP	32dBW @ 4.2GHz 38dBW @ 12.75Ghz
Power Requirements	110/220 VAC, 50/60Hz 1100W (ADE), 200W (BDE)
Environmental Conditions (Designed to Meet)	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

Typical Block Diagram