



## 1.15m (45") Ku-Band Marine Stabilized Tx/Rx System

### Broadband without Boundaries



The Orsat-G Antenna System enables high performance, high-speed, 2-way broadband communication in a wide variety of applications.

### Superior Connectivity & Efficiency

The system ensures superior quality of connectivity for comprehensive on-board communication applications via its exclusive mechanical design, compact dimensions and zero 'keyholes' for continuous zenith-horizon global communications.

Orsat-G's built-in RF package (4, 8 or 16W BUC - STD or EXT) combined with its unique RF/ antenna system, provides the best "maximum EIRP spectral density" capability and unmatched performance to size ratio.

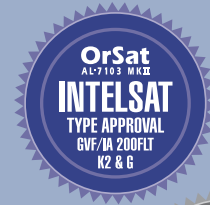
Orsat-G is a highly efficient dual offset Gregorian 1.15m (45") Ku-Band antenna housed in a low loss 1.28m (50") radome, delivering a powerful, compact and cost-effective VSAT package. With its modular and robust design supporting multiple modem compatibility, Orsat-G meets the toughest environmental marine standards and is the latest innovative addition to Orbit's proven Marine Stabilized Satellite Communication Systems.

### Tested & Approved

Orsat-G is the first compact maritime system to receive the Eutelsat, Intelsat and Anatel stamp of approval, demonstrating the technology's capability and superiority and at the same time, Orbit's leadership and commitment to its customers to enable the best satellite communication possible.

Orsat-G is compliant with environmental conditions including: EMC: IEC-EN 60954, Safety: EN 60204-1, ISO 12100-2, Shock: STD 810E Method 516.5 Pro.1, Vibration: MIL-STD-167-1 (Mast Mounted).

With over 50 years of global experience and internationally deployed teams of highly trained engineering support personnel, Orbit's solutions are installed on a wide variety of naval and coastguard vessels, private yachts, cargo and cruise ships, tankers, fishing vessels, oil & gas rigs and other maritime craft.



### Benefits

- Innovative technology
- Unmatched EIRP spectral density
- Plug & Play installation
- Eutelsat, Intelsat and Anatel approvals
- Worldwide support network
- Easy maintenance - use of modular replaceable LRUs
- Excellent proven track record
- Tested and proven in severe weather conditions

### Key Features

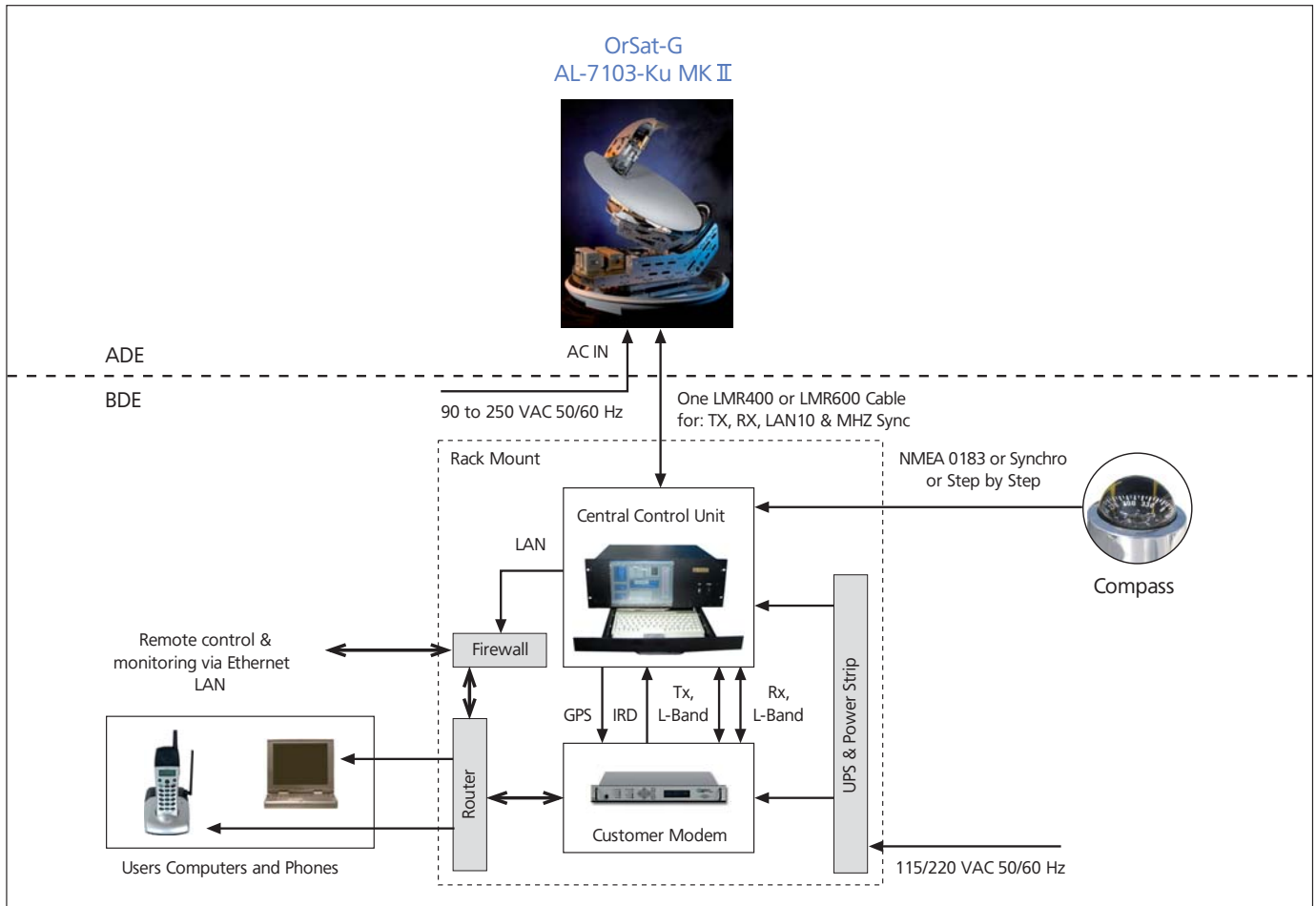
- Optimal performance, minimum size
- Remote control and monitoring via Ethernet LAN or "Back Door"
- Unique 4-axis configuration for full hemispherical coverage
- Dual system configuration (optional)
- Single coax cable for connecting above deck to below deck equipment (using MUX technology)
- Maintenance & data log-in features
- Built-in "Cease Tx" function
- Global application, supports wide band LNB and Co-cross Pol feed
- Automatic Beam Switching (ABS) function
- Fleet management (optional)
- On-site exchangeable to a 16W X-band kit



## System Specifications

Antenna Type	Dual offset Gregorian	Modem Interface	L-Band
Antenna Size	1.15m (45")	Dynamic Accuracy	0.1° RMS
Radome Size	D: 1.28m (50") H: 1.61m (63.4")	Ship Motion:	
Operation Frequency	Tx: 13.75-14.5 GHz Rx: 10.95-12.75 GHz	Roll	30° @ 8 Sec
Antenna Polarity	Linear H/V	Pitch	15° @ 6 Sec
Antenna Gain	Tx: 42.5dBi @ 14.25 GHz Rx: 41dBi @ 11.70 GHz	Yaw	8° @ 15 Sec
Cross-Pol Discrimination	35dB	Turning Rate	12°/Sec
System G/T	19dB/K° @ 11.7 GHz 20° elevation	Ship Gyro Interface:	NMEA 0183, Step by Step, Synchro
Power Requirements	90-260 VAC 50/60 Hz, 300W (4W BUC)	NBR (Narrow Band Receiver):	Yes
		Buc Options:	4W, 8W or 16W BUC (STD or EXT)
		LNB Option:	Wide band global LNB 10.95-12.75 GHz or selection of 1 of 3 bands PLL LNB 1 of 3: 10.95 to 11.70 GHz, 11.70 to 12.20 GHz, 12.25 to 12.75 GHz

\* Optional: Circular 16W X-band kit.



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