



OrSat AL-7103 MKII 1.15m Ku-Band Marine Stabilized Tx/Rx System

Broadband without boundaries



OrSat is the optimal solution for high-speed two-way broadband communication, ensuring superior quality connectivity for comprehensive on-board communication and entertainment applications. With an exclusive mechanical design, compact dimensions, no 'keyholes' for continuous zenith-horizon communications and a built-in RF package of 4/8W BUC, the OrSat turnkey solution typically provides 1 Mbps transmission in an unmatched performance to cost ratio.

The new OrSat is equipped with a highly efficient dual offset Gregorian 1.15m Ku-Band antenna, housed in a low loss 1.28m Radome, delivering the most powerful, compact and cost-effective VSAT package.

With a modular yet robust design, covering multiple modem compatibility, OrSat meets the toughest military standards, and is the latest innovative addition to Orbit's proven Marine Stabilized Satellite Communication Systems.

OrSat has been tested and found compliant with environmental conditions such as: EMI/RFI: EN 6132:97:A3:03 & ETSI EN 320 340 Sec. 4.2.1, Shock: MIL-STD 810E Method 516.5 Pro.1 and Vibration: MIL-STD-167-1 (Mast Mounted).

Backed by 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, police and coastguard vessels, private yachts, cargo & cruise ships, tankers, fishing boats, oil & gas rigs, buoys and other maritime craft.

Benefits

- Innovative technology
- Plug & Play installation
- Worldwide network support
- Easy maintenance - use of modular replaceable LRUs
- Excelling track record

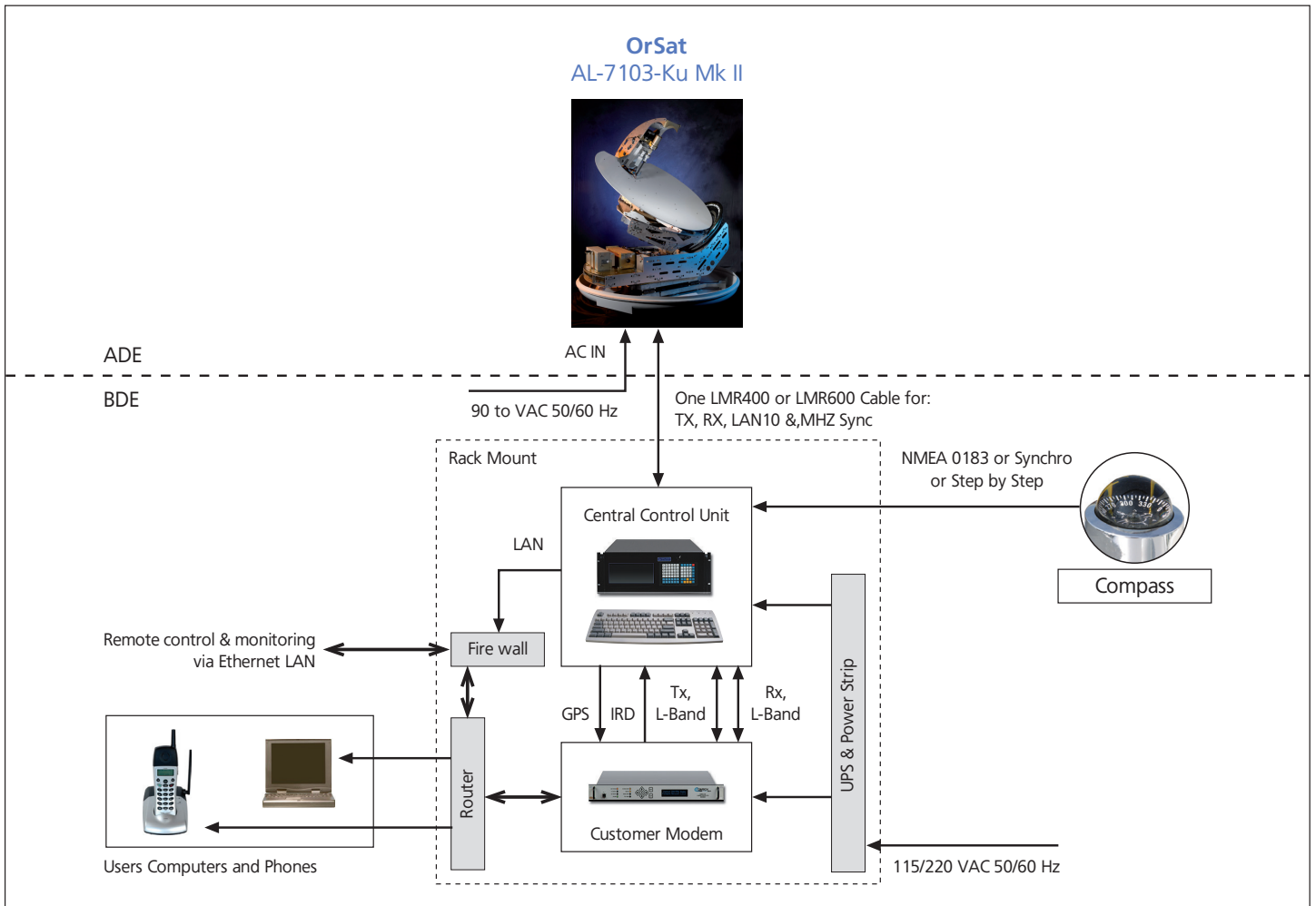
Key Features

- Optimal performance at minimum size
- Remote control & monitoring via Ethernet Lan
- Unique 4 axis configuration enabling full hemispherical coverage
- Built-in NRB (Narrow Band Receiver)
- Interface to modem IRD
- One coax cable connecting ADE & BDE
- Built-in satellite database
- Maintenance & data log-in features
- Tested in severe weather conditions



System Specifications

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



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