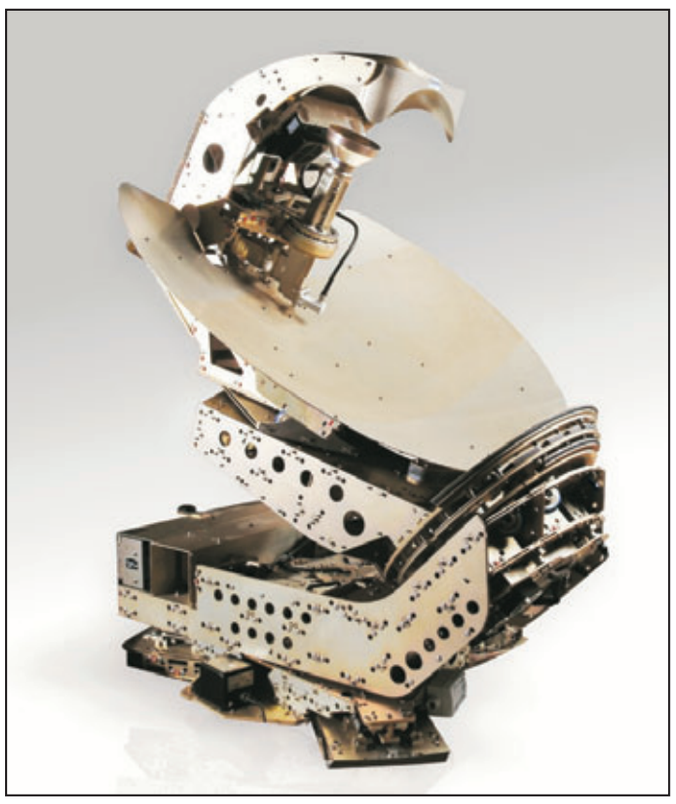
AL-7103-C-C & AL-7103-C-L

1.28m C-Band (Circular or Linear) Marine Stabilized Tx/Rx System

A Unique Combination of Superior Performance, Size & Cost



Orbit's two unique solutions for high performance, high speed 2 way broadband communication - AL-7103-C-C (Circular) & AL-7103-C-L (Linear) antennas ensure superior quality, connectivity for comprehensive on board communication for commercial and defense applications. With an exclusive mechanical design, compact dimensions, no "keyholes" for continuous zenith-horizon communications and a built in RF package of 20W or 10W (extended) BUC, Orbit's turnkey solution provides up to 512 Kbps (depending on the satellite) in an unmatched performance: cost ratio. Both antenna systems are highly efficient dual offset Gregorian 1.28m C-Band antenna housed in a low loss 1.4m radome and delivers the most powerful, compact and cost effective VSAT package for telephone, Internet & streaming video, GSM cellular, fax, videoconference and other applications currently available in Satellite communication. Both antenna systems, with their design to support a variety of modems and ability to meet the toughest military standards, are the latest innovative addition to Orbit's proven Marine Stabilized Satellite Communication Systems.

Backed by over 50 years of global experience and internationally deployed teams of highly trained engineering support personnel, Orbit's solutions are installed on wide variety of military vessels and platforms, police and coastguard vessels, private yachts, cargo & cruise ships, tankers, fishing boats Oil & Gas rigs, buoys and other maritime crafts.

Benefits

- Cost-Effective
- Commercial Off-The Shelf
- No System Balancing Needed
- Innovative Technology
- No Zenith or Horizon "Keyholes"
- Enhanced Performance
- Simplified Installation
- Maintenance Oriented

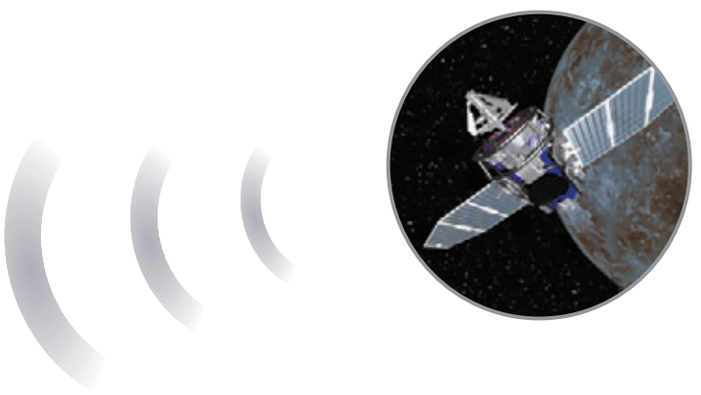
Key Features

- Typical 512 Kbps Data Rate (10W BUC) with ST-1 and AP Star
- Meets MIL-STD-461, 167-1& 901
  Supports NMEA-0183,
  Step by Step & Synchro
  (optional) compass interfaces
- Built-in GPS Antenna
- Built in RF Package: LNB& BUC
- Full Hemispherical coverage

System Specifications

Antenna	Dual offset Gregorian
Antenna Size	1.28m (50.4”)
Radome Size	D: 1.4m (55”) H: 1.6m (63”)
Operation Frequency for Standard Band	Tx: 5.9-6.4 GHz Rx: 3.7-4.2 GHz
Operation Frequency for Extended Band	Tx: 5.8-6.725 GHz, Rx: 3.4-4.2 GHz
Antenna Polarity	Circular L/R or Linear H/V
Antenna gain (Typical)	Tx: 35 dBi @ 6.2 GHz Rx: 30 dBi @ 3.8 GHz

Cross-Pol Isolation	>35 dB
Typical System G/T	12 dB/K° @ 3.8 GHz
Typical System EIRP	44 dBw @ 6.2 GHz with 10W BUC
Power Requirements	90-260 VAC 50/60 Hz, 300W
Modem Interface	L-Band (Tx, Rx)
Dynamic Accuracy	0.1° RMS
Ship Motion	
Roll	30° @ 8 sec
Pitch	15° @ 6 sec
Yaw	8° @ 50 sec
Turning Rate	12°/sec



Compass

Above Deck Equipment

Stabilized Antenna, Motorized Fees and GPS

Below Deck Equipment

Costumer Modem

L-Band

Central Control Unit

Router

Base Station WiFi

Video Conference

Tel / Fax

Internet

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