Intellian

v240MT 2

2.4M MULTI-ORBIT MULTI-BAND
Antenna System

FEATURES

FREQUENCY & ORBIT-AGNOSTIC CAPABILITIES

The new Intellian v240MT 2 solution provides the unique capability of switching among different satellite frequency bands and satellite orbit as needed without any user intervention. This enables the operator to select the best solution for the geographic location or for flexibility in achieving the highest throughput on virtually any satellite.

HYBRID GEO/MEO NETWORK AVAILABILITY

Hybrid networks which combine multiple frequencies and orbits are the optimal way to keep a vessel connected. Two antennas may be tracking moving MEO satellites while a third could be pointed at a fixed GEO satellite. This ensures more bandwidth aggregation and more reliable connectivity.

TRUE 2.4M MULTI-BAND RF PERFORMANCE

The design of the system assures consistent RF performance across C-, Ku-, and Ka-bands to deliver high-speed, high-quality connectivity to high-bandwidth demanding users. The v240MT 2 provides unsurpassed seamless operation for vessels in cruise and energy industries requesting bandwidth, coverage, and reliability.

INTELLIGENT MEDIATOR

This incredibly sophisticated system allows for automatic switching between networks, satellites, orbits, and most importantly, provides support for Dual Data Centers. All of this happens automatically, without any user intervention, to ensure data integrity and no dropped calls.

v240MT 2

TECHNICAL SPECIFICATIONS

PHYSICAL

Radome Height	431 cm / 169.5”
Radome Diameter	391 cm / 154”
Reflector Diameter	240 cm / 94.5”
Antenna Weight	1,133 kg / 2,498 lbs

STABILIZED PEDESTAL ASSEMBLY

Platform	3-axis : Azimuth, Elevation, Cross-level
Azimuth Range	Unlimited
Elevation Range	-15° to +120°
Cross-level Range	up to 30°
Stabilized Accuracy	0.2° peak mispointing @ max ship motion
Motor Brake System	Elevation, Cross level

REFLECTOR & FEED ASSEMBLY

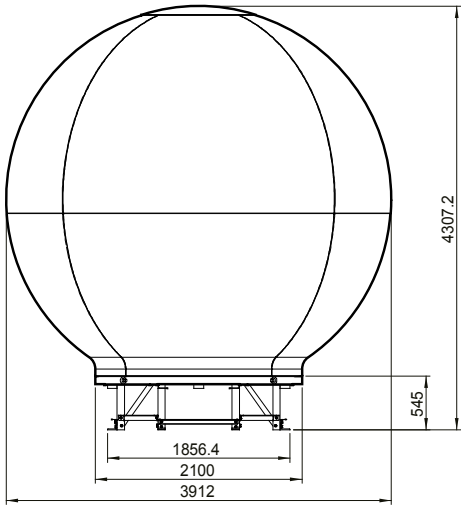
Tx Frequency	C-band : 5.85 GHz ~ 6.425 GHz Ku-band : 13.75 GHz ~ 14.5 GHz Ka-band : 27.5 GHz ~ 30.0 GHz
Tx Gain	C-band : 42.0 dBi @ 6.14 GHz Ku-band : 48.6 dBi @ 14.25 GHz Ka-band : 51.9 dBi @ 28.5 GHz
Rx Frequency	C-band : 3.625 GHz ~ 4.2 GHz Ku-band : 10.7 GHz ~ 12.75 GHz Ka-band : 17.7 GHz ~ 20.2 GHz
Rx Gain	C-band : 38.4 dBi @ 3.91 GHz Ku-band : 47.7 dBi @ 11.85 GHz Ka-band : 49.2 dBi @ 18.7 GHz
G/T (Incl. Radome)	C-band : 19.0 dB/K @ 3.91 GHz Ku-band : 28.0 dB/K @ 12.75 GHz Ka-band : 25.0 dB/K @ 18.7 GHz
BUC Power	C-band up to 400 W Ku-band up to 400 W Ka-band up to 100 W (with the specified BUC)
Polarization	C-band : Circular & Linear Ku-band : Linear (Cross Pol & Co Pol) Ka-band : Circular (Cross Pol & Co Pol)

* 168” sized Radome available as an option.

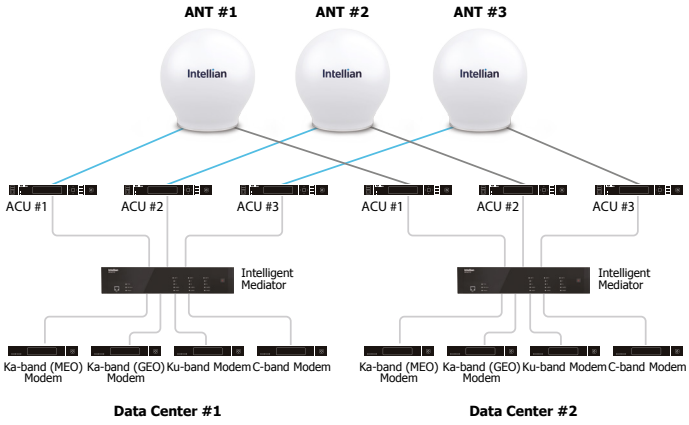
KEY FEATURE

- Multi-orbit and Multi-band supported
- Mix and Match frequency and satellite types
- Dual Data Centers - on-board resiliency
- Smart MEO Satellite Handover function
- Fiber Optic systems interconnect

SYSTEM DIMENSION



SYSTEM DIAGRAM



ESATCOM INC

Esatcom Inc.
www.esatcom.com

Tel:
718.276.0800

Email:
sales@esatcom.com

Part No. 2022_v240MT 2-DS0907