

OW70M

ONEWEB MARITIME 12 DB/K Dual Parabolic User Terminal



FEATURES

ONEWEB MARITIME USER TERMINAL

The OW70M is the first maritime user terminal that is able to utilize OneWeb's Low Earth Orbit (LEO) satellite constellation. The OW70M provides assured tracking capability even in the harshest of sea conditions, effectively meeting the needs of customers across all maritime sectors with the highest performance and data throughput demands.

HIGH SPEED CONNECTIVITY AT SEA

The OW70M is a cutting-edge user terminal that brings high-speed, low latency communications to maritime customers. With its 73cm reflector and data speeds of up to 195 Mbps downlink and 32 Mbps uplink, the OW70M enables high-speed applications for passenger and crew welfare while facilitating real-time critical operational communications. Users will also benefit from access to OneWeb's guaranteed CIR throughputs, ensuring consistent and reliable performance while at sea.

LOW TEMPERATURE PERFORMANCE

Utilizing the latest heating device technology, the OW70M provides dependable performance in extremely low temperatures (-40 degrees Celsius). With OneWeb being the only LEO constellation committing to 100% coverage of the poles, you can be assured of optimal connectivity for vessels travelling in both polar regions.

ONEWEB LEO CONSTELLATION

OneWeb supplies high speed internet connectivity to every corner of the world, even in the most remote locations. Utilising its 648 satellite constellation, OneWeb is able to deliver high speed, low latency connectivity to vessels wherever they are deployed.

SEAMLESS CONNECTIVITY

The OW70M is comprised of two antennas which operate in Primary-Primary mode. The terminal's 3 axis stabilization platform allows seamless and uninterrupted connectivity, which is essential for smooth reliable handovers. Each antenna works individually which provides increased flexibility for blockage mitigation so integrity of the high speed data transfer and low latency remain optimized.

QUICK AND EASY DEPLOYMENT

The antenna comes pre-assembled and has a single cable connection delivering both power and data between the indoor antenna control unit and the outdoor antenna. This significantly reduces installation time, complexity and cost.

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TECHNICAL SPECIFICATIONS

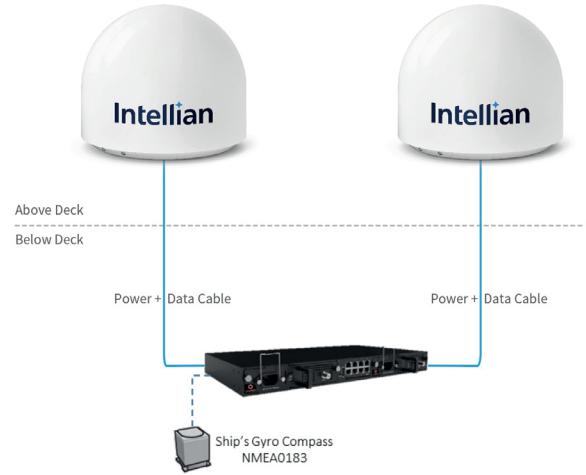
ABOVE DECK UNIT

Radome Height	96.8 cm / 38.1"
Radome Diameter	110.2 cm / 43.4"
Reflector Diameter	73 cm / 28.7"
Antenna weight	62 kg / 136.6 lbs 65 kg / 143.3 lbs (Heating Module installed condition)
Azimuth Range	Unlimited
Elevation Range	-80° to 80°
Cross-level Range	± 10°
Tx Frequency	14.0 ~ 14.5 GHz
Tx Gain	37.8 dBi
Rx Frequency	10.7 ~ 12.7 GHz
Rx Gain	36.5 dBi
EIRP	33.6 dBW/20 MHz (Single Carrier) 36.6 dBW/40 MHz (Dual Carrier)
G/T	12.2 dB/K (@11.8 GHz)
Polarization	Circular (Tx: LHCP, Rx: RHCP)

SYSTEM DIMENSION



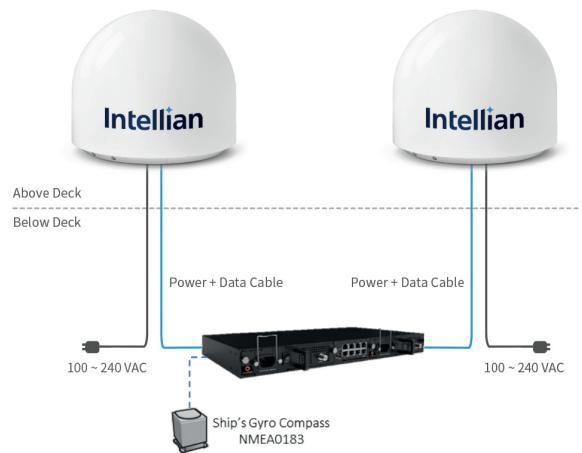
SYSTEM DIAGRAM



BELOW DECK UNIT

Dimensions (WxDxH)	44.2 cm x 25.0 cm x 4.4 cm / 17.4" x 9.8" x 1.7"
Weight	5.1 kg / 11.2 lbs
Interface	2x RG6/RG11 MoCA Port (F-type) 8x Ethernet Port (RJ45) 1x USB (type-A) 1x NMEA-0183 Port (2-pin terminal)
Power Requirement	AC 100V ~ 240V/50Hz ~ 60Hz
DC output range	2x DC 56V +/-5% (2x 250W)

SYSTEM DIAGRAM (HEATING MODULE INSTALLED CONDITION)



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