

OW50M-Rac

ONEWEB MARITIME 9 DB/K
Dual Parabolic User Terminal



FEATURES

ONEWEB MARITIME USER TERMINAL

The OW50M is the first maritime user terminal that is able to utilize OneWeb's Low Earth Orbit (LEO) satellite constellation. The OW50M-Rac 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.

FIBRE-LIKE CONNECTIVITY AT SEA

With an optimized G/T of 9.3dB/K and 53cm reflector, the OW50M is able to deliver unparalleled high speed, low latency connectivity. Combined with optimized EIRP, the terminal can achieve significant return throughput performance.

SEAMLESS CONNECTIVITY

The OW50M 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.

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.

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.

LOW TEMPERATURE PERFORMANCE

Utilizing the latest heating device technology, the OW50M 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.

OW50M-Rac

TECHNICAL SPECIFICATIONS

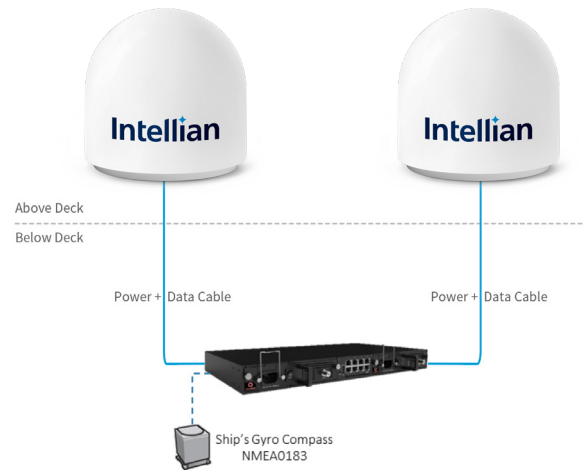
ABOVE DECK UNIT

| | |
|--------------------|----------------------------------|
| Radome Height | 85 cm / 33.5" |
| Radome Diameter | 85.6 cm / 33.7" |
| Reflector Diameter | 53.0 cm / 20.9" |
| Azimuth Range | Unlimited |
| Elevation Range | -80° to 80° |
| Cross-level Range | ± 10° |
| Tx Frequency | 14.0 ~ 14.5 GHz |
| Tx Gain | 34.9 dBi |
| Rx Frequency | 10.7 ~ 12.7 GHz |
| Rx Gain | 33.4 dBi |
| EIRP | 33.6 dBW/20 MHz (Single Carrier) |
| G/T | 9.3 dB/K (@11.8 GHz) |
| Polarization | Circular (Tx: LHCP, Rx: RHCP) |

SYSTEM DIMENSION



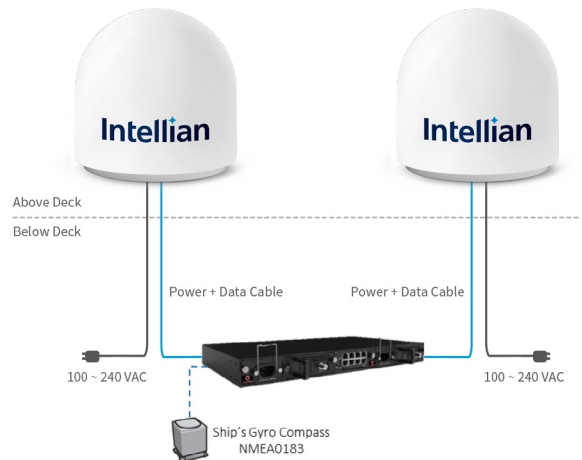
SYSTEM DIAGRAM



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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