Intellian

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.

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.

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.

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.

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 undisrupted 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.

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

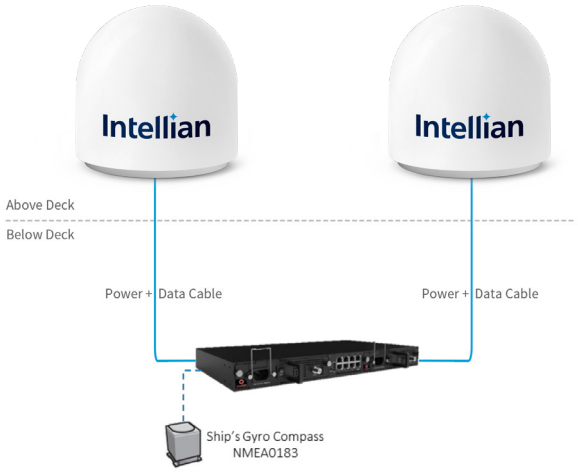
Radome Height	85 cm / 33.5"
Radome Diameter	85.6 cm / 33.7"
Reflector Diameter	53.0 cm / 20.9"
Azimuth Range	Unlimited
Elevation Range	-80° to 80°
Cross-level Range	± 10°
Tx Frequency	14.0 ~ 14.5 GHz
Tx Gain	34.9 dBi
Rx Frequency	10.7 ~ 12.7 GHz
Rx Gain	33.4 dBi
EIRP	33.6 dBW/20 MHz (Single Carrier)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

BELOW DECK UNIT

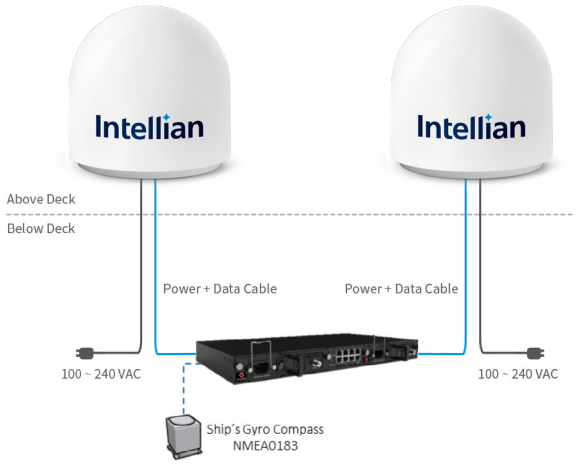
Dimensions (WxDxH)	44.2 cm x 25.0 cm x 4.4 cm / 17.4” x 9.8” x 1.7”
Weight	5.1 kg / 11.2 lbs
Interface	2x RG6/RG11 MoCA Port (F-type) 8x Ethernet Port (RJ45) 1x USB (type-A) 1x NMEA-0183 Port (2-pin terminal)
Power Requirement	AC 100V ~ 240V/50Hz ~ 60Hz
DC output range	2x DC 56V +/-5% (2x 250W)

SYSTEM DIMENSION

SYSTEM DIAGRAM



SYSTEM DIAGRAM (HEATING MODULE INSTALLED CONDITION)



Global HQ
Innovation Center
Intellian Technologies, Inc
T +82 31 379 1000

APAC
Seoul
Intellian Technologies, Inc.
T +82 2 511 2244

Americas
Irvine
Intellian Technologies USA, Inc.
T +1 949 727 4498 Toll Free +1 888-201-9223

EMEA
Rotterdam
Intellian B.V.
T +31 1 0820 8655

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