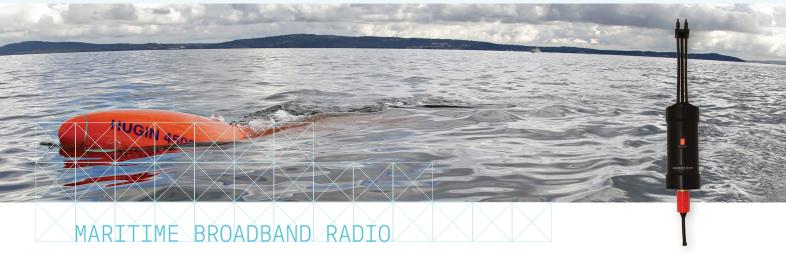
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KONGSBERG

MBR 144 SUBMERSIBLE



The Maritime Broadband Radio is a smart antenna designed for use in maritime applications where digital high-speed reliable communication and data transfer are crucial for efficient and safe operations. The MBR 144 Submersible allows for resilient and long-range data exchange for surfaced subsea vehicles. The MBR 144 Submersible is certified for 1000m depth, and has integrated antennas. The sole connection to the MBR 144 Submersible is one connector for power and Ethernet.

TECHNICAL SPECIFICATIONS

PERFORMANCE

User data 0.7 to 16.5 Mbps

Antenna coverage

Omni-directional 360 degrees azimuth

RF specifications

Frequency band ¹⁾ 4900 MHz to 5900 MHz

Channel bandwidth 20 MHz
Tx power Up to 2 W
Antenna gain 7 dBi
EIRP Max 40 dBm
Modulation GMSK
Internal antenna elements 4

INTERFACES

Ethernet/LAN 1

WEIGHTS AND DIMENSIONS

MBR Unit 2.4 kg (0.8 kg submerged) 548 x 98 x 98 mm

POWER

Supply voltage 24 V DC Max. power consumption 30 W Idle 6 W

ENVIRONMENTAL SPECIFICATIONS

 $\begin{array}{ll} \mbox{Operating temperature range} & -30\ ^{\circ}\mbox{C to } +55\ ^{\circ}\mbox{C} \\ \mbox{Operating humidity} & 20\ to 100\ ^{\circ}\mbox{RH} \\ \mbox{Storage humidity (recommended)} & 20\ to 70\ ^{\circ}\mbox{RH} \\ \mbox{Pressure rating} & 1000\ ^{\circ}\mbox{m} \end{array}$

STANDARDS AND REGULATIONS

MBR is in conformity with RED directive 2014/53/EU

EMC ETSI EN 301 843-1 ETSI EN 301 843-7 IEC 60945/EN 60945

 Radio
 ETSI EN 303 276

 Product Safety
 IEC 61010-1/EN 61010-1

 Environmental
 IEC 60945/EN 60945

Specifications subject to change without any further notice.



¹⁾ Configurable range for the single 20 MHz channel