

# MBR 144 SUBMERSIBLE



KONGSBERG



## MARITIME BROADBAND RADIO

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 <sup>1)</sup> 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

Operating temperature range -30 °C to +55 °C  
Operating humidity 20 to 100 % RH  
Storage humidity (recommended) 20 to 70 % RH  
Pressure rating 1000 m

#### 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

<sup>1)</sup> Configurable range for the single 20 MHz channel

Specifications subject to change without any further notice.

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