

# 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

#### Range

Operational range <sup>1)</sup>	20 km
User data	0.7 to 16.5 Mbps

#### Antenna coverage

Omni-directional	360 degrees azimuth
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#### RF specifications

Frequency band <sup>2)</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
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### WEIGHTS AND DIMENSIONS

MBR Unit	2.3 kg (0.8 kg submerged)
	548 x 98 x 98 mm

### POWER

Supply voltage	24 V DC
Max. power consumption	25 W
Idle	7 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

#### Electromagnetic compatibility

Compliance to EMC, immunity/emission	IEC 60945/EN 60945
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#### Product safety

Compliance to LVD, standard used	IEC 60950/EN 60950
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<sup>1)</sup> Operational range is dependent on antenna placement and height

<sup>2)</sup> Configurable range for the single 20 MHz channel

Specifications subject to change without any further notice.

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