

MBR 144



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 is crucial for efficient and safe operations. Completely enclosed with integrated antennas the MBR 144 is designed for installations on small manned and unmanned vessels. The unit has an integrated bracket for easy installation on vertical or horizontal rails, and with built-in GNSS sensor, the unit has possibility for absolute positioning. With its neat and slim design, and only one cable to connect, the MBR 144 is easy to deploy on the vessel.

TECHNICAL SPECIFICATIONS

PERFORMANCE

Range

Operational range ¹⁾	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 ²⁾	4900 MHz to 5900 MHz
Channel bandwidth	20 MHz
Tx power	Up to 2 W
Antenna gain	8 dBi
EIRP	Max 41 dBm
Modulation	GMSK
Antenna elements	4

INTERFACES

Ethernet / LAN	1
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WEIGHTS AND DIMENSIONS

MBR Unit	2.5 kg, 260 x 115 x 115 mm
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POWER

Supply voltage	12-24 V DC
Max. power consumption	25 W
Idle	7 W

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	-40 °C to +55 °C
Operating humidity	20 to 100 % RH
Storage humidity (recommended)	20 to 70 % RH
Ingress protection	IP 66

STANDARDS AND REGULATIONS

Electromagnetic compatibility	
EMC	ETSI EN 301 843-7 IEC 60945/EN 60945
Radio	ETSI EN 303 276
Product Safety	
Compliance to LVD, standard used	IEC 61010-1/EN 61010-1

¹⁾ Operational range is dependent on antenna placement and height

²⁾ Configurable range for the single 20 MHz channel

Specifications subject to change without any further notice.

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