

MBR 179



KONGSBERG



MARITIME BROADBAND RADIO

The Maritime Broadband Radio is developed for use in maritime applications where digital high-speed reliable communication and data transfer are crucial for efficient and safe operations. The MBR 179 operates in the 5 GHz frequency band and has proven high capacity communication over distances in excess of 45 kilometres.

Extremely robust

The MBR system enables high speed, high capacity and extremely robust data, voice and video transfer between multiple vessels and other assets.

Network

The system is a maritime radio network distribution system operating in the 5 GHz band and has demonstrated stable, high capacity communication in a maritime environment, handling close by vessel operations, platform obstructions and distances in excess of 45 kilometres.

Connecting vessels

Operating as a maritime “information highway”, the MBR connects crews and their vessels with a high-speed and high capacity digital communication channel with “fast track” priority options. The system can securely carry a diverse array of operational information, from real-time video to system data, and remotely situated teams can work together seamlessly, co-ordinating systems and activities for optimal performance, safety and operational success.

Easy to operate

Unlike satellite, Wi-Fi or mobile network platforms, MBR requires no extra infrastructure or equipment beyond the units on the participating vessels. This makes it a simple to use and maintain solution enhancing efficiency in maritime operations.

FEATURES MBR 179

- Smart antenna technology
- No moving parts
- Near/far capability for multiple vessels
- High data throughput in difficult conditions
- Realtime capability
- Easy to configure and operate



TECHNICAL SPECIFICATIONS

PERFORMANCE

Range

Operational range	0 to 45 km
Data rates	0.5 to 5.0 Mbps

Antenna coverage

Omni-directional	360 degrees azimuth
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RF specifications

Frequency band	4900 MHz to 5900 MHz
Channel bandwidth	20 MHz
Transmission power	6 W
Antenna gain	21 dBi
Modulation	GMSK

INTERFACES

Data	1 x Ethernet, RJ-45
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WEIGHTS AND DIMENSIONS

MBR Unit	16.4 kg, 500 x 500 x 323 mm
MBR Power Supply	6.4 kg, 88.1 x 485 x 334.75 mm

POWER

MBR Power Supply	Supply voltage 110 to 240 V AC
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ENVIRONMENTAL SPECIFICATIONS

Operating temperature range

MBR Unit	-30 °C to +55 °C
MBR Power Supply	-15 °C to +55 °C

Operating humidity

MBR Unit	20 to 100 % RH
MBR Power Supply	Max. 95 % non-condensing

Storage humidity

MBR Unit (recommended)	20 to 70 % RH
MBR Power Supply	Less than 55 %

Ingress protection

MBR Unit	IP 66
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Specifications subject to change without any further notice.

