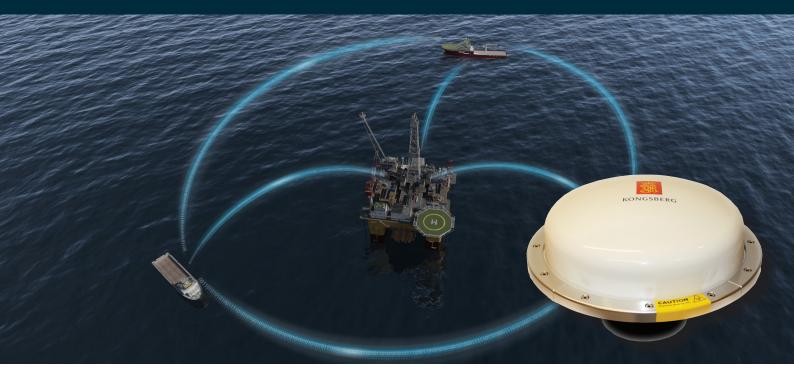
# **MBR 179**





## 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 opertional 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

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

#### **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

#### **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

Specifications subject to change without any further notice.