

# MBR 179



KONGSBERG



## MARITIME BROADBAND RADIO



The Maritime Broadband Radio is a smart antenna designed for use in any application where resilient high-speed communication and high-capacity data transfer are crucial for efficient and safe operation. With beamforming the MBR 179 provides steerable high-gain antenna direction in an omnidirectional sector, ideal for vessels and moving assets. With narrow fan shaped antenna diagram, a strong link margin is maintained and continuously updated as the unit is unaffected of vessel movements.

### TECHNICAL SPECIFICATIONS

#### PERFORMANCE

##### Range

Operational range <sup>1</sup>	45 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 4 W
Antenna gain	21 dBi
EIRP	Max 57 dBm
Modulation	GMSK
Internal antenna elements	60

##### INTERFACES

Ethernet/LAN	1x RJ-45
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##### WEIGHTS AND DIMENSIONS

MBR unit	8.8 kg, 323 x 323 x 111 mm
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#### POWER

Supply voltage	24 - 48 V DC
Max. power consumption, full TX	210 W

#### ENVIRONMENTAL SPECIFICATIONS

##### Operational temperature range

MBR Unit	-40°C - +55°C
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##### Humidity (operating/storage)

MBR Unit (recommended)	20 to 100 % RH / 20 to 70 % RH
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##### Ingress protection

MBR Unit	IP66
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#### 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 DNVGL-CG-0339 (48 V DC) IACS E10 (48 V DC)

<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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