

MBR 189 MK2



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 real-time beamforming, the MBR 189 adjusts the antenna direction for every IP datagram transmitted within a sector of 100° x 100°. This operational sector can be increased by mounting multiple radios together, giving up to 360° azimuth coverage. The MBR 189 is suitable for maritime land-to-sea communication and for ground stations for manned and unmanned aircraft operations.

TECHNICAL SPECIFICATIONS

PERFORMANCE

Range

Operational range ¹	50 km
User data	0.7 to 16.5 Mbps

Antenna coverage

1x MBR 189	100° Az x 100° EI
2x MBR 189	180° Az x 100° EI
3x MBR 189	270° Az x 100° EI
4x MBR 189	360° Az x 100° EI

RF specifications

Frequency band ²	4900 MHz to 5900 MHz
Channel bandwidth	20 MHz
Tx power	Up to 4 W
Antenna gain	24 dBi
EIRP	Max 60 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 ETSI EN 303 276
Radio	IEC 61010-1/EN 61010-1
Product Safety	IEC 60945/EN 60945
Environmental	DNVGL-CG-0339 (48 V DC) IACS E10 (48 V DC)

¹Operational range is dependent on antenna placement and height

²Configurable range for the single 20 MHz channel

Specifications subject to change without any further notice.

September 2019

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