MBR 189 MK2

KONGSBERG

Maritime Broadband Radio

The Maritime Broadband Radio (MBR) 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 MK2 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 radio units together, giving up to 360° azimuth coverage. The MBR 189 MK2 is suitable for maritime land-to-sea communication and for ground stations for manned and unmanned aircraft operations.

Technical specifications

CE

Performance

User data throughput	0.7 - 16.5 Mbps

Antenna coverage

1x MBR 189 MK2	100° Az x 100° El
2x MBR 189 MK2	180° Az x 100° El
3x MBR 189 MK2	270° Az x 100° El
4x MBR 189 MK2	360° Az x 100° El

RF specifications

Frequency band[1]	4900 - 5900 MHz
Channel bandwidth	20 MHz
Antenna gain	24 dBi
EIRP	Up to 60 dBm
Modulation	GMSK
Internal antenna elements	60

Interfaces

Ethernet/Power connector	1 x MIL-STD-38999 13-26 Marine Bronze
Data interface	Ethernet 10/100 baseT

Weight and dimensions

Dimensions	323 × 323 × 111 mm
Weight	8.5 kg

Power specifications

Supply voltage	24 - 48 VDC
Power consumption, full Tx	210 W, max.
Power consumption, Rx only	70 W

Environmental specifications

Operating temperature	-40 °C - +55 °C
Ingress protection	IP66

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 VDC) IACS E10 (48 VDC)

1 *Configurable range for the single 20 MHz channel*

Specifications subject to change without any further notice.

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487234/C - September 2025