

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 and vessel-to-vessel communication.

TECHNICAL SPECIFICATIONS

PERFORMANCE

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 5725 MHz to 5850 MHz
Channel bandwidth 20 MHz
Tx power Up to 1W
Antenna gain 24 dBi
EIRP Up to 54 dBm
Modulation GMSK
Internal antenna elements 60

INTERFACES

Ethernet/LAN 1x RJ-45

WEIGHTS AND DIMENSIONS

MBR unit 8.8 kg, 323 x 323 x 111 mm

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

Humidity (operating/storage)

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

Ingress protection

MBR Unit IP66

STANDARDS AND REGULATIONS

MBR is in conformity with RED directive 2014/53/EU

FCC ID Q8IM189MK2
EMC ETSI EN 301 843-1
ETS EN 301 843-7
IEC 60945/EN 60945
FCC §15.407
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)



Specifications subject to change without any further notice.

KONGSBERG SEATEX

Switchboard: +47 73 54 55 00
Global support 24/7: +47 33 03 24 07
E-mail sales: km.seatex.sales@km.kongsberg.com
E-mail support: km.support.seatex@km.kongsberg.com

kongsberg.com/maritime



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