

MBR 179 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 beamforming the MBR 179 MK2 provides steerable high-gain antenna direction in an omnidirectional sector, ideal for vessels and moving assets. With a 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

User data throughput 0.7 - 16.5 Mbps

Antenna coverage

Omni-directional 360 degrees azimuth

RF specifications

Frequency band¹ 4900 - 5900 MHz
Channel bandwidth 20 MHz
Tx power Up to 4 W
Antenna gain 21 dBi
EIRP Up to 57 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 9 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.