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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

Performance

User data throughput

Antenna coverage

1x MBR 189 MK2 2x MBR 189 MK2 3x MBR 189 MK2 4x MBR 189 MK2

RF specifications

Frequency band¹ Channel bandwidth Tx power Antenna gain EIRP Modulation Internal antenna elements

Interfaces

Ethernet/Power connector

Data interface

Weight and dimensions Dimensions

Weight

0.7 - 16.5 Mbps

100° Az x 100° El 180° Az x 100° El 270° Az x 100° El 360° Az x 100° El

4900 - 5900 MHz 20 MHz Up to 4 W 24 dBi Up to 60 dBm GMSK 60

1 x MIL-STD-38999 13-26 Marine Bronze Ethernet 10/100 baseT

323 × 323 × 111 mm 8.5 kg

Power specifications

Supply voltage24 - 48 VDCPower consumption, full Tx210 W, max.Power consumption, Rx only70 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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