MBR 189 MK2 Portable

KONGSBERG

Maritime Broadband Radio

The MBR 189 MK2 Portable is a kit consisting of a MBR 189 MK2 radio, tripod and cables for quick deployment. The MBR MK2 Portable is delivered in two transportation hard cases and is perfect to use both on shore and on vessels which requires quick deployment for temporary operation. 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 Portable 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 MK2 Portable 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
Tx power	Up to 4 W
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
Transportation case 1	17. kg, 100 × 47 × 17 cm
Transportation case 2	20.4 kg, 46 × 31 × 61 cm

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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