

MBR 144 MK2 Submersible FCC



KONGSBERG



Mobile Broadband Radio

The Mobile Broadband Radio (MBR) is a smart antenna designed for use in maritime applications where digital high-speed reliable communication and data transfer are crucial for efficient and safe operations. The MBR 144 MK2 Submersible FCC allows for resilient and long-range data exchange for surfaced subsea vehicles. The MBR 144 MK2 Submersible FCC is certified for 1000 metres depth and has integrated antennas. The sole connection to the MBR 144 MK2 Submersible FCC is one connector for power and Ethernet.

Technical specifications

Performance

User data 0.7 - 16.5 Mbps

Antenna coverage

Omni-directional 360 degrees azimuth

RF specifications

Frequency band 5725 - 5850 MHz
Channel bandwidth 20 MHz
Antenna gain 7 dBi
EIRP Up to 36 dBm
Modulation GMSK
Internal antenna elements 4

Interfaces

Ethernet/LAN 1

Weight and dimensions

Radio Unit 2.4 kg, 548 × 98 × 98 mm
Weight submerged 0.8 kg

Power specifications

Supply voltage 24 VDC
Power consumption 25 W, max.
Idle 6 W

Environmental specifications

Operating temperature -30 °C - +55 °C
Operating humidity 20 - 100 % RH
Storage humidity 20 - 70 % RH
Pressure rating 1000 m

Standards and regulations

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

FCC ID Q8IM144M2OEM

EMC ETSI EN 301 843-1
ETSI EN 301 843-7
IEC 60945/EN 60945

Radio FCC §15.407

Product safety IEC 61010-1/EN 61010-1

Environmental IEC 60945/EN 60945



Specifications subject to change without any further notice.