The Maritime Broadband Radio 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. With compact design and tilted antennas suitable for helmet mounting, the MBR 144 Personal is intended for operations where personnel requires a robust communication link during surveillance and inspection. The MBR 144 Personal has integrated antennas and GNSS positioning. The MBR 144 Personal is also available with a dedicated plug-and-play camera for live streaming, and battery packs.

TECHNICAL SPECIFICATIONS

PERFORMANCE
User data 0.7 to 16.5 Mbps

Antenna coverage
Omni-directional 360 degrees azimuth

RF specifications
Frequency band 1)
14900 MHz to 5900 MHz
Channel bandwidth 20 MHz
Tx power Up to 2 W
Antenna gain 7 dBi
EIRP Max 40 dBm
Modulation GMSK
Internal antenna elements 4

INTERFACES
Ethernet/LAN 2

MBR Unit 295 g, 146 x 78 x 43 mm

POWER
Supply voltage 24 V DC
Max. power consumption 25 W
Idle 8 W

ENVIRONMENTAL SPECIFICATIONS
Operating temperature range 2)
-30 °C to +55 °C
Operating humidity 20 to 100 % RH
Storage humidity (recommended) 20 to 70 % RH
Ingress protection IP66

STANDARDS AND REGULATIONS
MBR is in conformity with RED directive 2014/53/EU
EMC ETSI EN 301 843-1
Radio ETSI EN 301 843-7
Product Safety IEC 61010-1
Environmental IEC 60945/EN 60945

WEIGHTS AND DIMENSIONS

1) Configurable range for the single 20 MHz channel
2) Air convection required

Specifications subject to change without any further notice.