The Maritime Broadband Radio 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 provides steerable high-gain antenna direction in an omnidirectional sector, ideal for vessels and moving assets. With 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**
- Range
  - Operational range\(^1\): 45 km
  - User data: 0.7 to 16.5 Mbps
- Antenna coverage
  - Omni-directional: 360 degrees azimuth

**RF specifications**
- Frequency band\(^2\): 4900 MHz to 5900 MHz
- Channel bandwidth: 20 MHz
- Tx power: Up to 4 W
- Antenna gain: 21 dBi
- EIRP: Max 57 dBm
- Modulation: GMSK
- Internal antenna elements: 60

**INTERFACES**
- Ethernet/LAN: 1x RJ-45

**WEIGHTS AND DIMENSIONS**
- MBR unit: 8.8 kg, 323 x 323 x 111 mm

**POWER**
- Supply voltage: 24 - 48 V DC
- Max. power consumption, full TX: 210 W

**ENVIRONMENTAL SPECIFICATIONS**
- Operational temperature range
  - MBR Unit: -40°C - +55°C
- Humidity (operating/storage)
  - MBR Unit (recommended): 20 to 100 % RH / 20 to 70 % RH
- Ingress protection
  - MBR Unit: 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
  - Product safety
  - Environmental
  - IEC 61010-1/EN 61010-1
  - IEC 60945/EN 60945
  - DNVGL-CG-0339 (48 V DC)
  - IACS E10 (48 V DC)

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\(^1\)Operational range is dependent on antenna placement and height
\(^2\)Configurable range for the single 20 MHz channel

Specifications subject to change without any further notice.