MBR 179

KONGSBERG

MARITIME BROADBAND RADIO

The Maritime Broadband Radio is a smart antenna designed for use in any application where digital high-speed reliable communication and data transfer is crucial for efficient and safe operation. With the possibility to adjust the antenna direction in azimuth, the MBR 179 provides high gain omnidirectional coverage ideal for vessels and other moving platforms. 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

Data	1 x Ethernet, RJ-45

WEIGHTS AND DIMENSIONS

MBR Unit	16.5 kg, 500 x 500 x 318 mm
MBR Power Supply	6.4 kg, 88.1 x 485 x 334.75 mm

POWER

MBR Unit

Max. power consumption	210 W
RX only	70 W

MBR Power Supply

Supply voltage	110 to 240 V AC

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range

MBR Unit	-30 °C to +55 °C
MBR Power Supply	-15 °C to +55 °C

Operating humidity

MBR Unit	20 to 100 % RH
MBR Power Supply	Max. 95 % non-condensing

Storage humidity

MBR Unit (recommended)	20 to 70 % RH
MBR Power Supply	Less than 55 %

Ingress protection

MBR Unit	IP66

STANDARDS AND REGULATIONS

Electromagnetic compatibility

Compliance to EMCD, immunity/emission	IEC 60945/EN 60945

Product safety

Compliance to LVD, standard used	IEC 60950/EN 60950

[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.

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