

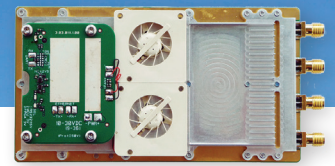
MBR 144 UAV



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 only 85 grams, the MBR 144 UAV is tailored for lightweight UAVs, which require expanded operational range for command and control as well as a payload data link. The overall dimensions of the MBR 144 UAV makes it easy to integrate to many different UAVs with only power and Ethernet connection required. The antenna connections are connector-based, thus the antennas can be adjusted for the specific UAV design.

TECHNICAL SPECIFICATIONS

PERFORMANCE

Range

Operational range ¹⁾	20 km
User data	1 to 15 Mbps

Antenna coverage

Omni-directional	360 degrees azimuth
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RF specifications

Frequency band ²⁾	4900 MHz to 5900 MHz
Channel bandwidth	20 MHz
Tx power	Up to 2 W
Antenna gain	7 dBi
EIRP	Max 40 dBm
Modulation	GMSK
Antenna connectors	4

INTERFACES

Ethernet / LAN	1
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WEIGHTS AND DIMENSIONS

MBR Unit	85 g, 120 x 65 x 13.3 mm
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POWER

Supply voltage	5 V DC
Max. power consumption	25 W
Idle	7 W

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range	-40 °C to +55 °C
Operating humidity	20 to 100 % RH
Storage humidity (recommended)	20 to 70 % RH

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

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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