



KONGSBERG

PHASED ARRAY FOCUSED RADIO BEAM

Kongsberg Seatek

THE MBR FAMILY

connectingvessels.com

MAXIMIZING PERFORMANCE BY PROVIDING THE FULL PICTURE

Our mission

We shall earn the respect and recognition for our dedication to provide innovative and reliable marine electronics that ensure optimal operation at sea. By utilising and integrating our technology, experience and competencies in positioning, hydroacoustics, communication, control, navigation, simulation, and automation, we aim to give our customers The Full Picture. The Full Picture yields professional solutions and global services that make a difference enabling you to stay ahead of the competition.

Our philosophy

Our success depends on the success of our customers. Actively listening to our customers and truly understanding their needs, and then translating these needs into successful products and solutions is central to achieving our goal. Our people are the key to our success and we empower them to achieve. Working together in a global network of knowledge, guided by our values, engenders innovation and world class performance. Every day we have to think a little differently, because every client is unique. We aspire to translate the imagination and dedication of our staff into successful technologies and solutions. Our commitment is to add value to your operations by providing you with The Full Picture.

Content

- 04 Applications
- 05 Communicating Success
- 06 Enabling Complex Operations
- 08 Product Range
- 10 Game-Changing Communication
- 11 Worldwide Operations

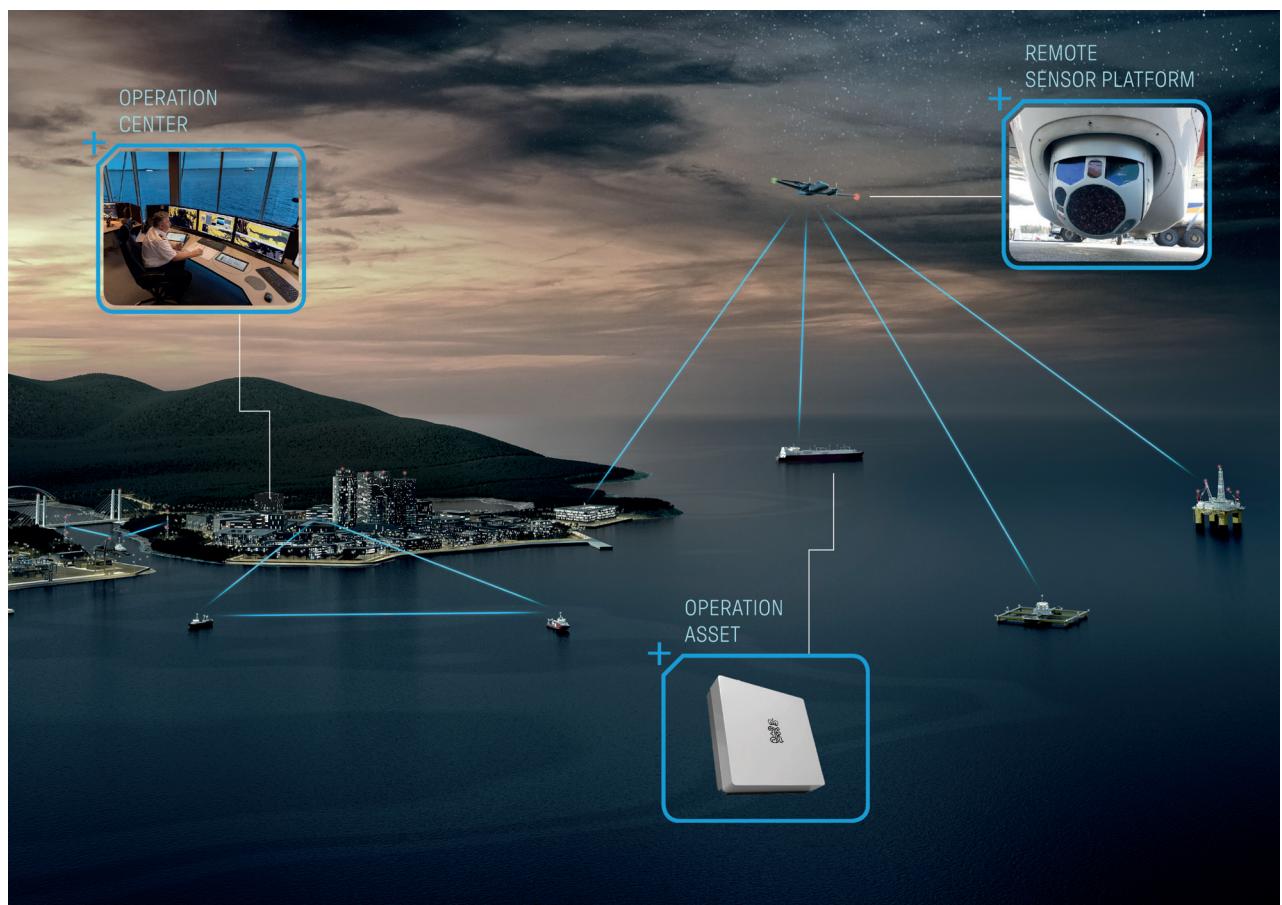
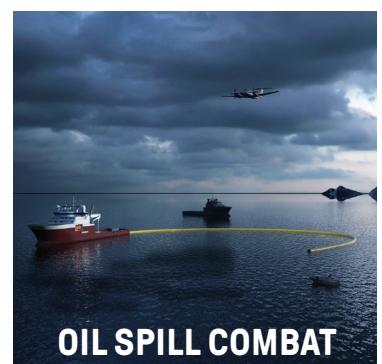
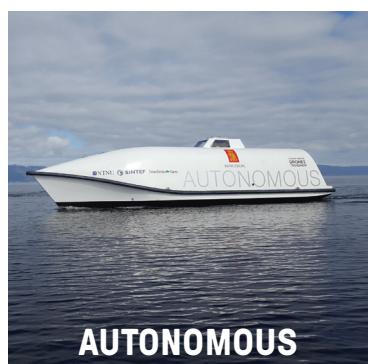
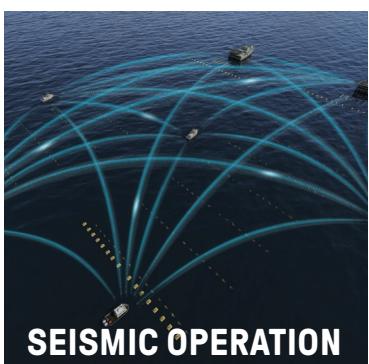
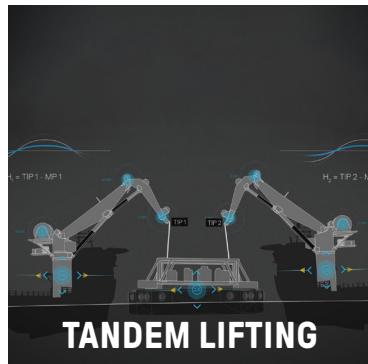
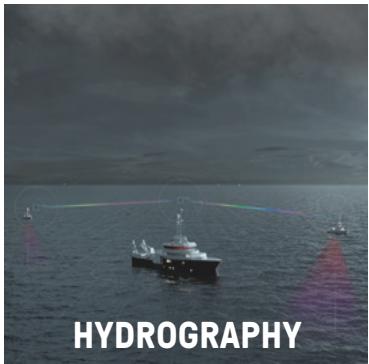


Illustration of a typical MBR setup

APPLICATIONS

The MBR is suitable for a range of applications, including, but not limited to:



COMMUNICATING SUCCESS

Maritime Broadband Radio (MBR) connects operational assets and teams like never before. Delivering high performance, capacity and barrier-free communications, without the need for expensive infrastructure, MBR unlocks a new age of collaboration for complex operational tasks.

With reliable, durable and cost effective technology, MBR enables the sharing of data and HD video streams between vehicles, vessels and aircrafts.

MBR channels high-speed digital communication and unites teams, across long ranges, ensuring that, no matter what the demands, you have the mission-critical connectivity required for success.

Communicating success

Successful operations depend on effective communication. In a world of increasing complexity, with ever greater demands, the ability to see, hear and understand your team unlocks potential and mitigates risk.

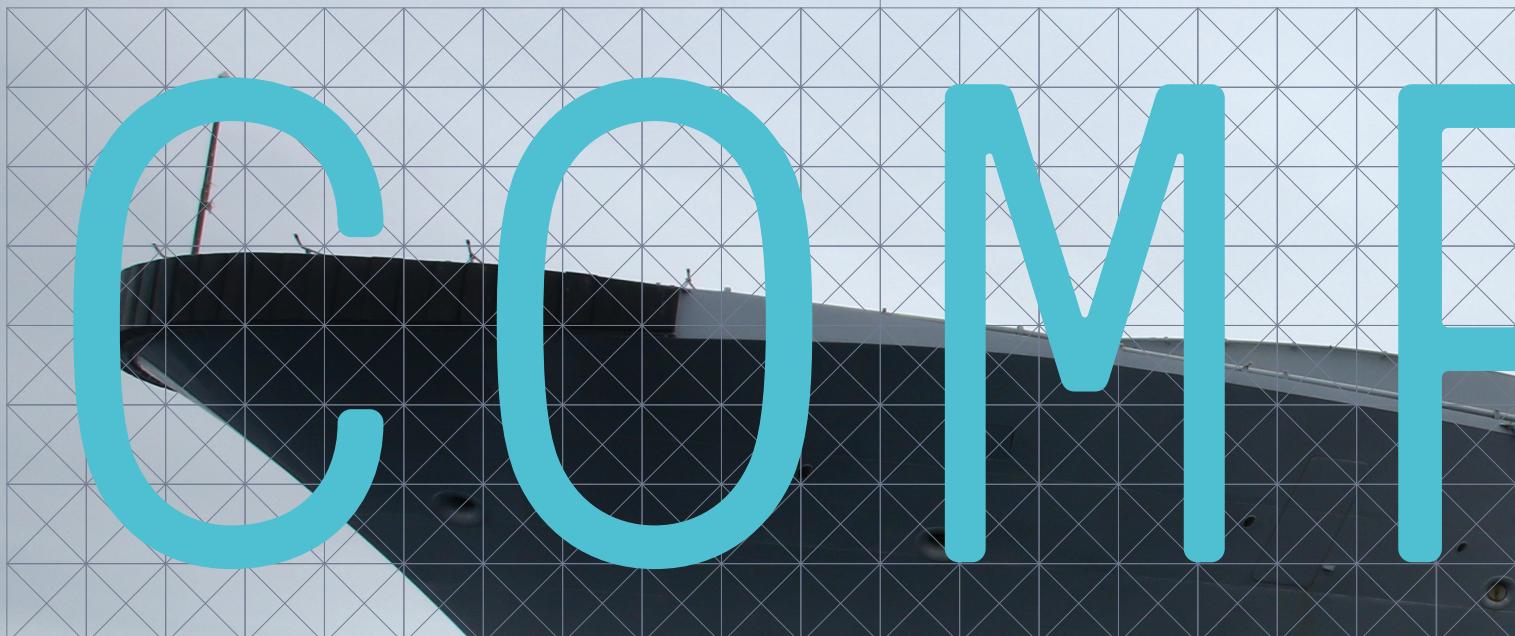
MBR unites people, allowing them to work side by side, even when separated by long distances. Objectives, expertise and real-time insights can be seamlessly shared, ensuring not only awareness and understanding, but also the best chances of operational success - every time, everywhere.

MBR DELIVERS

- **High-capacity** - share HD video, images, maps, sensor data and all vital operational data.
- **Long range capability**
 - seamless digital communication across distances of up to 300 km*
- **Smart systems** - intelligent configurations delivering optimal bandwidth and low latency
- **Barrier-free connectivity** - bypassing steel structures and obstacles for reliable data exchange
- **The power of precision**
 - fail-safe application, control and efficiency
- **'Plug and play' simplicity**
 - secure, simple and strong networks without the need for internet connections
- **Operational reliability** - engineered by KONGSBERG for long-term performance
- **Extreme durability** - pure solid-state technology, high quality manufacturing, and no moving parts
- **Cost effective excellence**
 - easy to install, zero infrastructure and clear, predictable pricing

* Operational range is dependent on antenna placement and height above sea level.

ENABLING



UNITING PEOPLE

Whatever the task, whatever the challenges, whatever the assets and modes of operation are, MBR has the ability to connect diverse teams and help simplify the most complex operations. If your people can communicate they can work together. MBR unites them.

ALL MBR UNITS OFFER

- IP connectivity
- Near/far capability for multiple vessels
- High data through-put, whatever the conditions
- Real time data exchange
- Easy to install, configure and operate
- Reliable performance

BEYOND-LINE-OF-SIGHT

Offering reliable beyond-line-of-sight operational range, MBR forms a high-capacity information highway that allows teams to share data from sensors, communicate seamlessly, and make decisions based on informed, common operational understanding.

It marks a new dawn of collaboration and coordination, paving the way for optimal performance, safety and operational success.



SAFEGUARDING THE SEAS WITH MBR

In 2016 Norway's Coastal Administration and NOFO (Norwegian Clean Seas Association for Operating Companies) fitted MBR units on all oil recovery vessels, and, together with the Norwegian Coast Guard, on the surveillance aircrafts LN-LYR, LN-KYV and LN-TRG.

These diverse assets can now closely coordinate activities to enhance speed, efficiency and effectiveness in the event of critical oil spills. Together they exchange data with broadband capability, yet without internet connectivity, to gain shared understanding and make the right decisions, at the right times.

OPERATIONS

TAILORED FOR YOUR DEMANDS

KONGSBERG understands the maritime environment and your operational objectives. We've tailored our MBR product range to ensure you have units that are optimised for your individual assets and purposes. Each one provides seamless, high capacity data exchange, reliable performance and durable construction, with no moving parts and no need for regular maintenance.

For any operation, in any environment, there's always an MBR.



MBR 189

- Sector Antenna, 100° coverage in azimuth and elevation
- High gain steerable in azimuth and elevation
- Relative and absolute positioning (built-in GNSS)
- Built-in multi-sectoring functionality for expansion of sector coverage



MBR 179

- Omnidirectional
- High gain steerable in azimuth
- Absolute positioning (built-in GNSS)



MBR 179 Portable

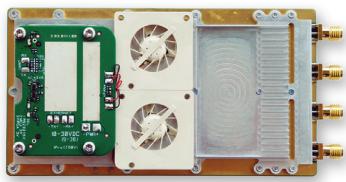
- Portable kit
- Omnidirectional
- High gain steerable in azimuth
- Absolute positioning (built-in GNSS)
- Suitable for quick and temporary deployment

MBR 144



- Omnidirectional
- Compact MBR version
- Ingress protected
- Absolute positioning (built-in GNSS)
- Suitable for small and unmanned vessels

MBR 144 UAV



- Omnidirectional
- Extreme lightweight version
- Suitable for medium and small UAV's for increased operational range

MBR 144 OEM



- Omnidirectional
- OEM unit for customer specific integration



MBR 144 Submersible

- Omnidirectional
- Submersible to 1000 m
- Internal antenna elevated from radio unit
- Suitable for submersible vehicles which require data link when surfaced

MBR 144 Personal



- Omnidirectional
- Body worn
- Absolute positioning (built-in GNSS)
- "Inspection kit" with camera available

NO MARKET EQUIVALENT

Game-changing communication

MBR is unique. There is no market equivalent enabling this degree of data transfer, without the need for internet connectivity, across long distances, in dynamic environments, between multiple assets.

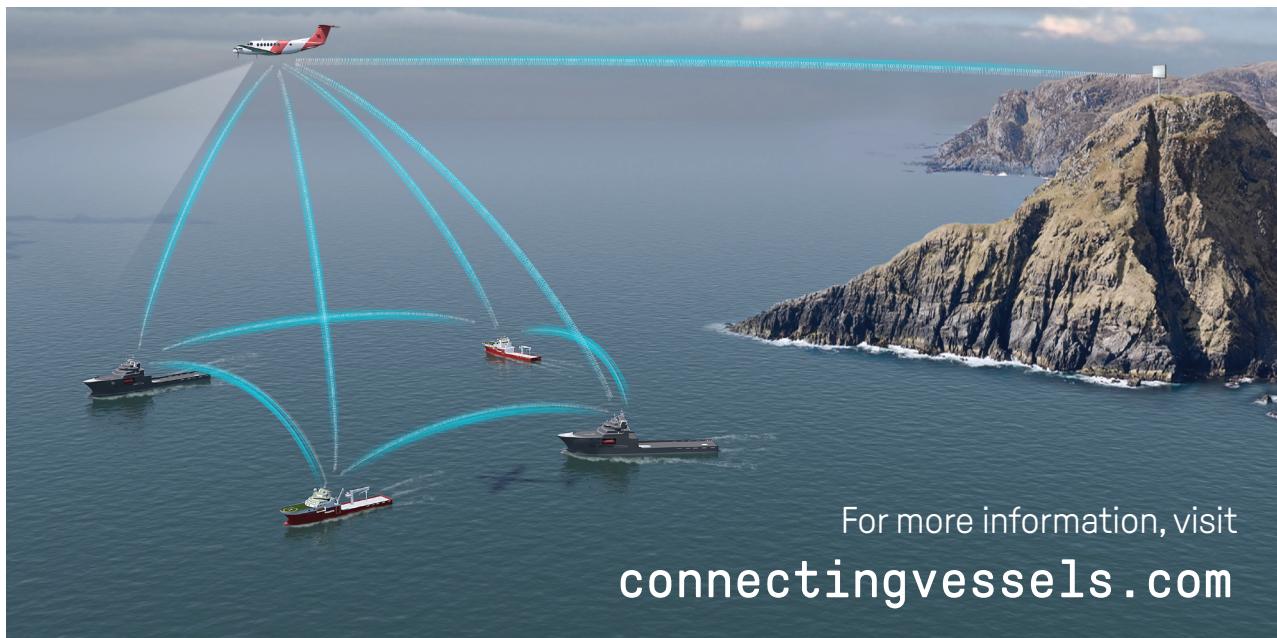
*MBR - uniting
people,
unlocking
operational
potential*

It is simple and cost effective and requires absolutely no specialized infrastructure, unlike traditional data transfer solutions.

There are no subscriptions, no rental agreements and no complicated and costly data charges - just predictable pricing and reliable, high quality performance.

With real-time information, real-time awareness of complex situations can be achieved, empowering safer, more efficient and more successful decision making.

The benefits of MBR are as unique as the technology. Connect with the new possibilities today.



For more information, visit
connectingvessels.com

WORLDWIDE OPERATIONS

KONGSBERG is an international corporation with strong Norwegian roots. Collaboration with our customers, partners and suppliers, and a commitment to understand the context where our technology is applied, are important driving forces beyond the corporation's international development and growth.





KONGSBERG

