SUBNERO M25M SERIES MODEMS

Fourth generation software-defined acoustic modems with class leading performance

KEY FEATURES

- Up to 15 kbps data rate
- More than 4 km communication range in shallow waters
- Deep sleep state with <1 mW power consumption
- Supports localization & ranging with 1 m precision
- Support for arbitrary waveform transmission and recordings
- Enhanced performance with additional receiving channels

SUITABLE FOR

- Frequent ADCP data retrieval for long term deployments
- Localization and communication for underwater inspection

BEST-IN-CLASS PERFORMANCE

Subnero's M25M series modems can be configured dynamically (in the field) to operate with high data rates (up to 15 kbps) or longer communication ranges (more than 4 km) or a combination of both, to provide best-in-class performance in tropical, warm and shallow waters.

SDOAM POWERED BY UnetStack4

Being software defined open architecture (SDOAM), the M25M series modems offer unprecedented flexibility to the user for integrating with other platforms (e.g. ADCP), dynamically configuring to avoid interference with other acoustic devices, and keeping up-to-date with regular software updates.

NETWORKING AND LOCALIZATION READY

Engineered for building large underwater networks, multiple M25M series modems can form distributed or cellular-like centralised networks. Such networks with handover, relaying, routing and tracking capabilities can provide support for communication and localization applications.

SILVER EDITION

WNC-M25MSS4, WNC-M25MSE4

Subnero's silver edition modems are designed to provide high-performance underwater wireless communication and localization features in all kinds of environments. They are available in different configurations such as standalone, embedded, and multichannel to support a variety of operational needs and use cases.

RESEARCH EDITION

WNC-M25MRS4

Aimed directly at academic researchers and underwater technology enthusiasts, our research edition underwater modems are designed to bridge the gap between developing applications using a simulator (e.g. Unet simulator) and high-end commercial deployments. Due to their low cost, these modems provide an easier entry to the world of underwater communications to any underwater technology enthusiasts.

OPTIONAL ACCESSORIES AND UPGRADES

In addition to the various editions and configurations, the Subnero WNC series of products support a rich ecosystem of optional accessories and upgrades starting from battery packs, underwater cables to additional receiving channels, additional sensors such as GPS, Compass (AHRS), multiple storage options (up to 1 TB), electrical interfaces and additional coprocessors for deploying user applications, making it one of the most versatile acoustic devices in the market today.