



SUBNERO WNC SERIES

MULTI-RECEIVER MODEM

Acoustic smart modems with multiple receiving hydrophones for enhanced performance



APPLICATIONS

- ✓ Underwater positioning and tracking research
- ✓ High-performance subsea communications
- ✓ Rapid environmental assessment
- ✓ Underwater IoT networks

ENHANCED COMMUNICATION PERFORMANCE

Uses spatial diversity combining to maintain strong and reliable links in challenging acoustic environments.

RESEARCH-READY SIGNAL ACCESS

Provides access to raw acoustic data from all receivers, offering an ideal platform for researchers developing custom communication, navigation, tracking, and signal-processing algorithms for AUVs.

FLEXIBLE DEVICE ROLES

Supports use as a high-performance communication modem, a positioning aid, or a versatile acoustic recorder.

3D POSITIONING AND TRACKING

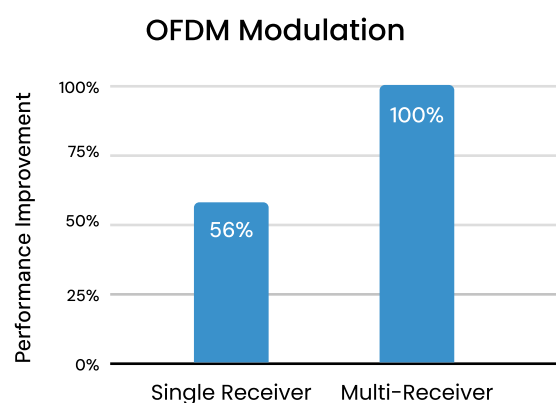
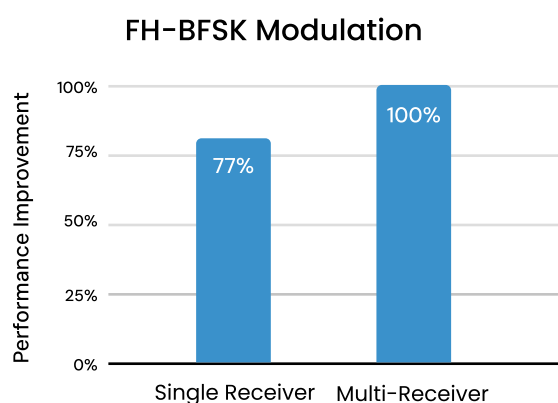
Enables three-dimensional localization and tracking using multi-hydrophone signal processing.



SUBNERO MULTI-RECEIVER MODEM

Upgrade the modem by adding additional receiving hydrophones to enhance performance through spatial diversity, improving reliability, extending range, and enabling advanced sensing capabilities. This configuration provides a stronger platform for demanding communication, localization, and research applications.

ENHANCED COMMUNICATION PERFORMANCE



Example performance improvement for incoherent (FH-BFSK) and coherent (OFDM) modulation schemes.

TECHNICAL SPECIFICATION

Modem

Subnero Gen4X Series Smart Modems

Receive channels

Up to 4

Waveform streaming

Supported (all receivers)

SILVER EDITION

Dimensions (excluding hydrophone)

L12L series (2 receivers)

Ø 100 × 313 mm

M25M series (2 receivers)

Ø 100 × 303 mm

GOLD EDITION

Dimensions (excluding hydrophone)

L12L series (2, 4 receivers)

Ø 100 × 390 mm

M25M series (2, 4 receivers)

Ø 100 × 380 mm

S40H series (2, 4 receivers)

Ø 100 × 371 mm

Specifications are for base models only and are subject to change without notice. Please consult your sales representative for the latest information.

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The future of underwater wireless