SUBNERO

MULTI-CHANNEL CONFIGURATION

Software-defined acoustic smart modems with multiple receiving channels

ENHANCED COMMUNICATION PERFORMANCE

Utilizing spatial diversity combining techniques to provide unparalleled communication performance even in the most challenging conditions.

ONE DEVICE, MULTIPLE APPLICATIONS

Fulfilling multiple roles such as high-performance subsea wireless communication device, positioning and navigational aid or a versatile acoustic recorder.

3D POSITIONING AND TRACKING

Providing high precision three dimensional positioning and tracking underwater.

APPLICATIONS

- ✓ Rapid environmental assessment
- ✓ Underwater IoT
- ✓ Underwater positioning and tracking
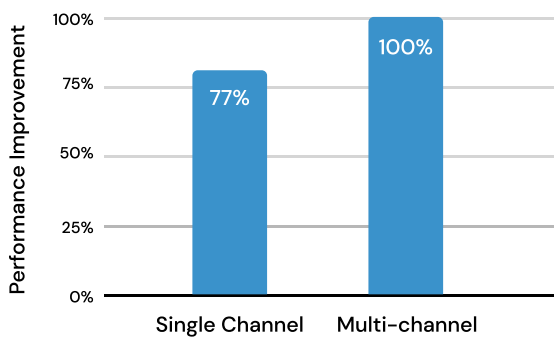- ✓ High-performance acoustic smart modem
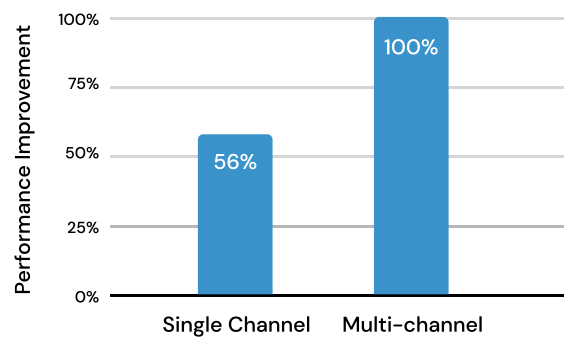
WNC SERIES MULTI-CHANNEL CONFIGURATION

Subnero's multi-channel configuration of smart modems, provide enhanced performance to the end user by leveraging the additional receiving channels and spatial diversity combining techniques.

ENHANCED COMMUNICATION PERFORMANCE

CONTROL Channel

Performance Improvement

- Single Channel: 77%
- Multi-channel: 100%

DATA Channel

Performance Improvement

- Single Channel: 56%
- Multi-channel: 100%

Example performance improvement with multiple channels for CONTROL (FH-BFSK) and DATA (OFDM) channels.

TECHNICAL SPECIFICATIONS

Modem Subnero WNC Series Smart Modems	**Programmable gain** 36 dB
Additional receiving channels Up to 4	**Dimensions** ⌀ 127 ✕ 416 mm
Additional sensors (optional) GPS, Compass	**Weight (in air / water)** 8.0 / 3.0 kg
Waveform streaming Supported (all channels)	**Power consumption** < 7 W (receive mode, nominal) < 45 W (transmit mode, average)

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