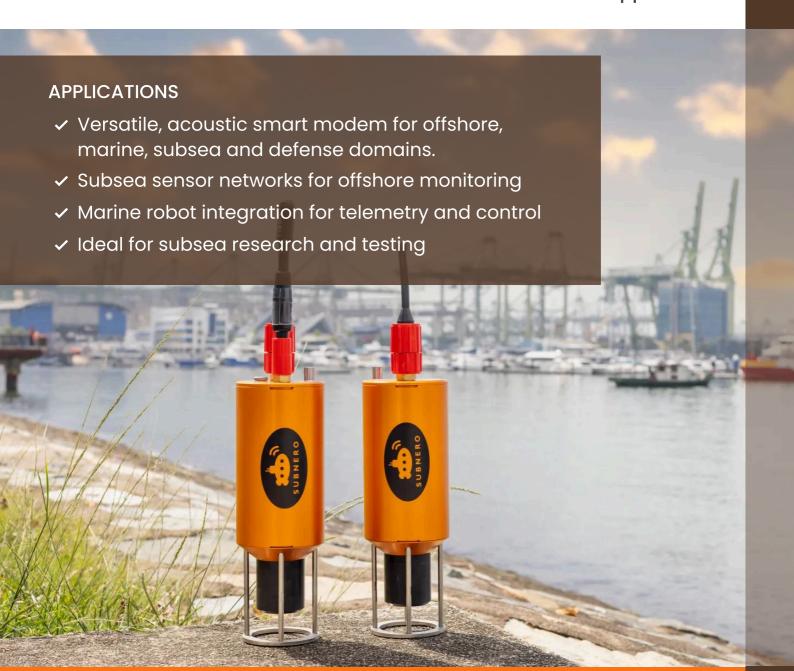


## **SUBNERO M25M SERIES MODEMS**

Versatile connectivity for a diverse set of applications



BEST-IN-CLASS PERFORMANCE

Up to 15 kbps or over 4 km range in challenging littoral waters.

SOFTWARE-DEFINED DESIGN

Flexible, in-field configurable performance powered by UnetStack.

AUVS & SENSORS

Robust links to enable supervised autonomy and remote control for AUVs and subsea sensors.

MULTI-RECEIVER OPTION

Enhanced performance through spatial diversity combining.

JANUS COMPATIBILITY

Fully compliant with NATO JANUS standard for interoperability.

BUILT-IN NETWORKING

Integrated network stack for large-scale underwater networks.



## M25M SERIES MODEMS

The M25M series modem is the dependable workhorse of the Gen4X series, designed for versatility across a wide range of applications. Balancing data rate, range, and robustness, it provides a reliable foundation for marine robotics, and sensor networks.

т	ECHNICAL SPECIFICATION
COMMUNICATION	
Modulation (software defined)	PSK-OFDM, FH-BFSK
FEC (Forward Error Correction)	LDPC, BCH, Convolution code
JANUS support	Yes
Bandwidth	12 kHz (20 - 32 kHz)
SOFTWARE	
Framework	UnetStack
User Interface	Interactive web UI
Software Interfaces	Java, Groovy, Python, C, JavaScript, Julia, JSON/TCP
ELECTRICAL	
Power source	18 - 30 VDC (24 VDC recommended)
Power consumption	< 4 W (receive mode, nominal)
	< 45 W (transmit mode, avg.)
	< 150 mW (sleep mode)
	< 1 mW (deep sleep mode)
Wake up modes	Acoustic wake up
	External electrical interrupt
	Scheduled wake up
External interface	Ethernet (10/100 Mbps), RS232
On-board storage	256 GB, 1 TB
Receive channels	1, 2 (configurable at the time of purchase)
MECHANICAL	
Hull material	Aluminum, Stainless steel, Titanium
Depth rating	300 m, 2000 m, 4000 m, 6000 m
Dimensions	SC: ø 100 x 303 mm, OC: ø 88 x 137 mm
Weight (in air / water)	SC: 2.1 / 0.8 kg, OC: 0.65 kg / NA
Available Configurations	Standalone Configuration (SC)
	Open Configuration (OC)

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