

WL-11003 Modem M64



DESCRIPTION

The Modem-M64 is a two-way half-duplex 64bps acoustic modem with a robust and user configurable data link.

The M64 is setting a new market standard with its record-breaking physical size, low power requirement and cost. This combination opens new possibilities for underwater communication in both existing and new markets.

Typical applications include AUV telemetry, ROV wireless control, wireless subsea sensors and other scenarios where you need to wirelessly control and monitor subsea equipment.

KEY FEATURES

- Omnidirectional operation which will keep the data link stable even when the modem is in motion and/or being rotated around its axes.
- Fully self-contained with no requirements for external computers, top-side controllers or other devices.
- The integrated status LED makes it easy to confirm that the communication link is established and when data is transferred.
- Serial 9600 baud UART 3,3V interface makes the M64 easy to integrate with other subsea equipment like sensors, ROVs and AUVs.
- Extremely small size enabling easy integration in other equipment.
- Very low power consumption.
- Highly robust operation, also in areas with acoustic reflections (shallow water, around installations etc.)
- Standard depth rated to 300 meters. Other depth ratings available on request.
- Stable net datalink of 64 bit per second with a typical latency of ~500ms.
- Fully featured API.

MECHANICAL

Device length	: 112 mm
Device width	: 30 mm
Device weight (air)	: 128 gram
Depth rating	: 300 meters
Material	: PEEK
Operating temperature	: -5 to 60 °C

ELECTRICAL

Input voltage	: 10-18 V
Power consumption	: 216 mAh at 12V
Physical interface	: Open ended cable, 4 wires (pwr/serial)
Indicator	: Status LED Sync, Search, Data

ACOUSTIC / COMM

Range	: 200 meters
Frequency	: 100-200kHz
Communication	: UART 9600 baud serial, 3,3V
Data buffer	: 1 MB

APPROVALS

RoHS compliant
CE

DIMENSIONS



ORDERING GUIDE

	WL-11003-1 - 002
PART NUMBER	
CABLE LENGTH	
	002 2 m (default)

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