LUMA X

The **LUMA™ X** is a high-speed, long-range wireless optical modem designed for underwater communication, offering superior data rates, low latency, and lower power consumption compared to traditional acoustic modems. Its ultra-compact, lightweight design makes it ideal for small ROVs and AUVs, while its energy efficiency is perfect for battery-powered applications. With a high data rate, long range and complete bi-directional transceiver, it also features ad-hoc networking available upon request.

The **LUMA™ X** features a software-configurable cable interface compatible with Ethernet, RS232, or RS485, allowing it to easily replace cabled connectors in existing systems. This modem excels in various applications, including wireless data retrieval from submerged sensors, high-speed communication for underwater devices, and HD video streaming in deep-sea environments.

SYSTEM SPECIFICATIONS

Dimensions	126 mm x ø 60 mm (4.96 in x ø 2.36 in)
Weight in Air	530 g (18.69 oz)
Weight in Water	125 g (4.41 oz)
Maximum Data Rate	10 Mbit/sec
Maximum Range	50 m (164.04 ft)
Supply Voltage	12 - 36 V
Depth Rating	6000 m, 12000 m * (19685 ft, 39370 ft)
Beam Pattern	120 deg. cone

SYSTEM FEATURES

Software Features*	Error Detection FEC Auto-wakeup REST API for Configuration
Power Consumption: Active, Receiving	2 W
Power Consumption: Transmitting	2 - 20 W (typ.)
Connector	SubConn Circular 8 pins DBH8MTI

ADDITIONAL FEATURES ARE UPGRADEABLE UPON REQUEST.