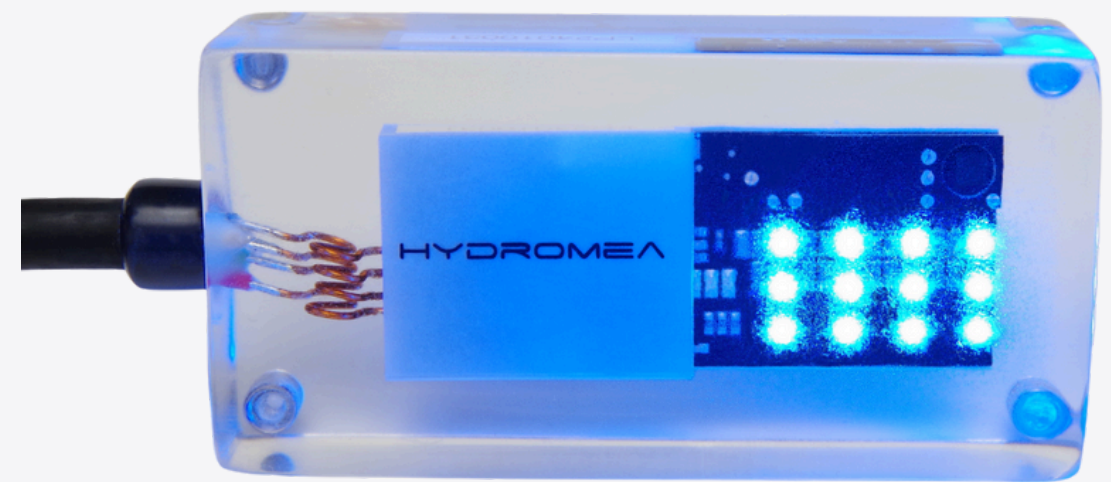


LUMA 250LP

The **LUMA 250LP** optical modem delivers outstanding performance and energy efficiency in a compact design, ideal for underwater communication. With superior data rates, low latency, and lower power consumption than acoustic modems, it is perfect for data downloads from submerged sensor platforms and wireless interfacing between ROVs/AUVs and deep-sea infrastructure. Its energy-efficient design includes a configurable sleep mode that activates after inactivity and can be optically woken by another modem.

Ultra-compact and lightweight, the **LUMA 250LP** is suited for small ROVs and AUVs, offering four transmission power levels (2 to 5 W) and a wide supply voltage range. The software-configurable serial cable interface supports RS232 or RS485 for easy integration into existing systems. Applications include wireless readout of landers, low-power communication for battery-operated devices, and wireless video streaming for mini ROVs, making it a versatile subsea networking solution.



SYSTEM SPECIFICATIONS

Dimensions	100 x 50 x 30 mm (3.94 x 1.97x 1.18 in)
Weight in Air	250 g (8.82 oz)
Weight in Water	50 g (1.76 oz)
Data Rate	250 Kbit/sec Up to 600 Kpbs at Reduced Range
Maximum Range	7 m (22.96 ft)
Supply Voltage	12 - 36 V
Depth Rating	6000 m (19685 ft)
Beam Pattern	120 deg. cone

SYSTEM FEATURES

Software Features*	Error Detection FEC Auto-wakeup
Power Consumption: Sleep Mode	< 10 mW
Power Consumption: Active, Receiving	0.5 W
Power Consumption: Transmitting	2 - 5 W (typ.)
Connector	SubConn MCIL6M or As Requested

**ADDITIONAL FEATURES ARE UPGRADEABLE UPON REQUEST.
PRELIMINARY SPECIFICATIONS MAY CHANGE WITHOUT NOTICE*



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