

UAM-08160H

High-Speed Underwater Acoustic Modems



Overview

UAM-08160H is a long-range underwater acoustic modem designed for reliable deep-sea communication. It supports a **maximum communication range of up to 10,000 meters at 3 kbps**, enabling stable data transmission over ultra-long distances. With OFDM modulation and flexible interfaces, it is well suited for deep-sea monitoring, AUV/ROV communication, and offshore operations where extended range is critical.

Technical Specifications

Specification	UAM-08160H-IE2A	UAM-08160H-II2A
Frequency Band	8kHz-16kHz	
Communication Range	Max 10,000m(3kbps)	
Communication Rate	3kbps-6kbps (3kbps@10km, 4.5kbps@5km, 6kbps@3km)	
Power Consumption	Transmit: 60W (Customizable); Receive: 1.7W	
Interface	RS422/RS485/RS232(Customizable)	
Operating Mode	Half-Duplex	
Communication System	OFDM	
Supply Voltage	24V~48V DC	
Battery	/	48V7Ah
Material	AluminumAlloy(6061), Operating Depth: 300m	
	Stainless Steel(316L), Operating Depth: 2,000m (optional)	
	TitaniumAlloy(TC4), Operating Depth: 6,000m (optional)	
Dimensions	≤Ø 100mmX225mm	≤Ø 100mmX375mm
Weight	6061: 2.7kg	6061: 4.2kg
	316L: 7.7kg	316L: 9.2kg
	TC4: 4.7kg	TC4: 6.2kg
Operating Temperature	0 °C ~ +50 °C	
Storage Temperature	-20 °C ~ +65 °C	