

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