UAM-04080X-SI4T

30KM Long-range Underwater Acoustic Modems (UAMs)
Built-in duty module and battery

Overview

The UAM-04080X-SI4T underwater acoustic modem device features a built-in low-power duty module and battery, designed specifically for long-term observation platforms such as seabed bases and buoys. With a modular structure, it can operate at depths of up to 6000m, offering flexible installation. Constructed from TC4 titanium alloy for lightweight design, it meets the needs of weight-sensitive users. The device supports standard control protocols and provides technical support for protocol development. This device provides reliable acoustic communication with a maximum range of 30 km and a user data rate of up to 1kbps (BER 10^{-4}).

Technical Specifications

SPECIFICATIONS	
Communication Frequency Range	4kHz-8kHz
Communication Distance	Up to 30km
Communication Rate	100bps-1kbps
Bit Error Rate	10^{-4}
Operating Modes	Transmit Mode/Receive Mode/Standby Mode
Communication Type	Half-Duplex
Communication Standard	Dual-Mode(MASS/SC-MPSK)
Maximum Working Depth	6000m(with a design margin of 600m)
Standby Power Consumption	20mW
Receive Mode Power Consumption	3.6W
Transmit Mode Power Consumption	up to 300W(with adjustable power levels)
Control Interface	RS485/RS232/RS422
Dimensions	Diameter 184mm × Height 530mm
Weight	24.2kg(in air)/12.4kg(in water)

Application Diagram

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Website: https: //china-sonar.com/
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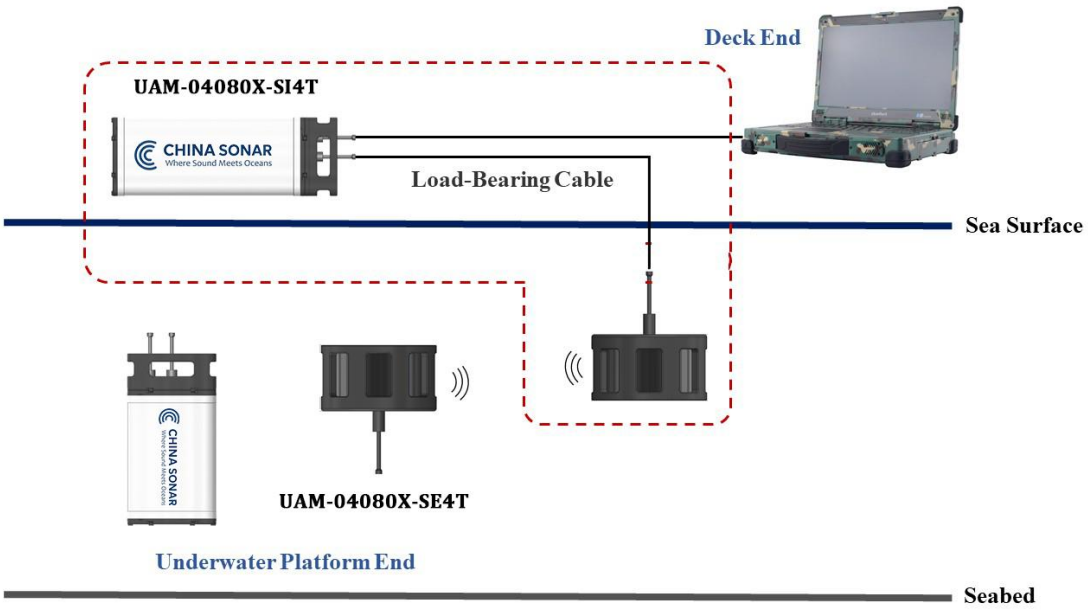
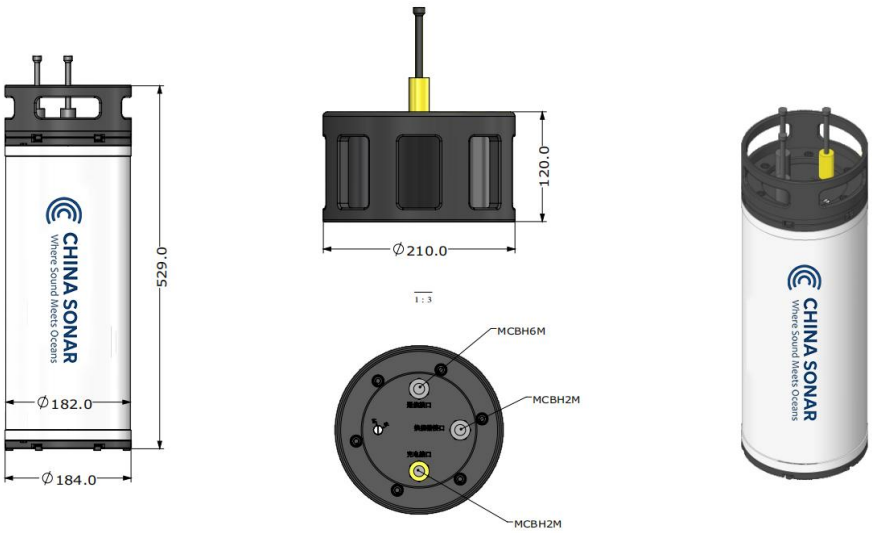
Specifications subject to change without notice.



Dimensional Diagram



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UAM-04080X-SE4T

30KM Long-range Underwater Acoustic Modems (UAMs)
Lightweight and externally powered

Overview

The UAM-04080X-SE4T underwater acoustic modem device features a built-in low-power duty module, designed specifically for long-term observation platforms such as seabed bases and buoys. With a modular structure, it can operate at depths of up to 6000m, offering flexible installation. Constructed from TC4 titanium alloy for lightweight design, it meets the needs of weight-sensitive users. Powered externally, it provides versatile power supply options to meet diverse user needs. The device supports standard control protocols and offers technical support for protocol development. This device provides reliable acoustic communication with a maximum range of 30 km and a user data rate of up to 1kbps (BER 10^{-4}).

Technical Specifications

SPECIFICATIONS	
Communication Frequency Range	4kHz-8kHz
Communication Distance	Up to 30km
Communication Rate	100bps-1kbps
Bit Error Rate	10^{-4}
Operating Modes	Transmit Mode/Receive Mode/Standby Mode
Communication Type	Half-Duplex
Communication Standard	Dual-Mode(MASS/SC-MPSK)
Maximum Working Depth	6000m(with a design margin of 600m)
Standby Power Consumption	20mW
Receive Mode Power Consumption	3.6W
Transmit Mode Power Consumption	up to 300W(with adjustable power levels)
Power Supply Voltage	DC 48V
Control Interface	RS485/RS232/RS422
Dimensions	Diameter 184mm × Height 354mm
Weight	14.6kg(in air)/7kg(in water)

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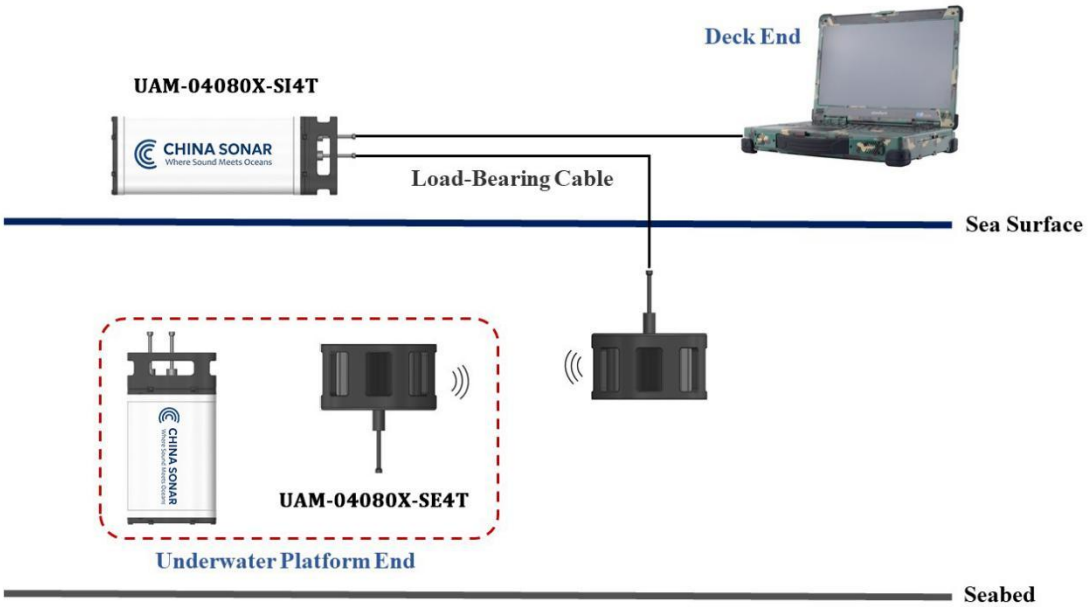
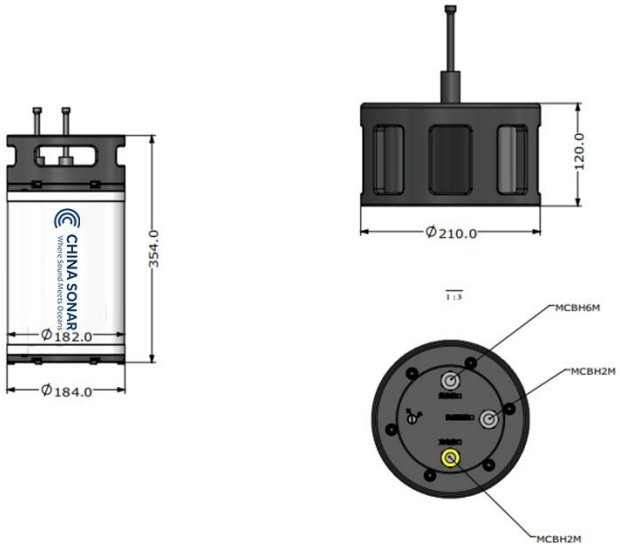
Application Diagram



Dimensional Diagram



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