

UAM-16320X-II2S

3KM Mid-range Underwater Acoustic Modems (UAMs)
Deck Unit with Built-in Battery



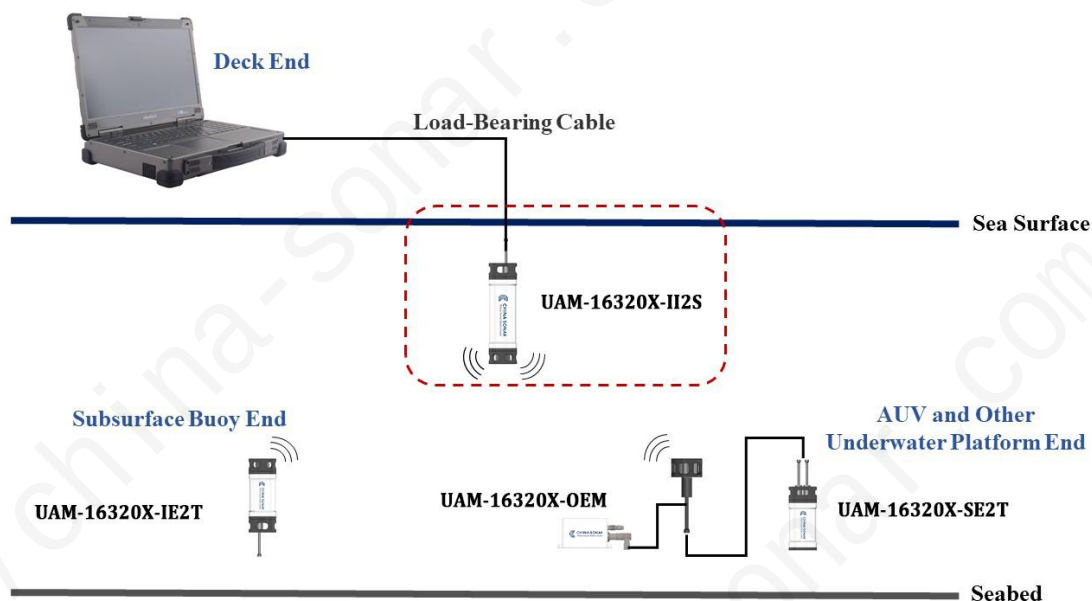
Overview

The UAM-16320X-II2S underwater acoustic communication device, serving as the deck unit of the UAM-16320X series, offers flexible deployment and simple control and use. Users can configure and operate the device using the provided upper-level software, along with a USB-to-RS485 serial cable and bearing cable. It comes with a 50m bearing cable, allowing deployment at depths of up to 30m (the device is designed to withstand pressures up to 4.5MPa, and for deeper deployment, custom extended bearing cables are available). The device features a built-in 7Ah@16.8V battery, providing approximately 8 hours of operation on a single charge (based on 8 hours of receiving and 1 hour of continuous maximum power transmission), meeting most offshore operational needs. This device offers reliable underwater communication with a range of up to 3 km and a maximum user data rate of 4 kbps (with a bit error rate of 10^{-4}).

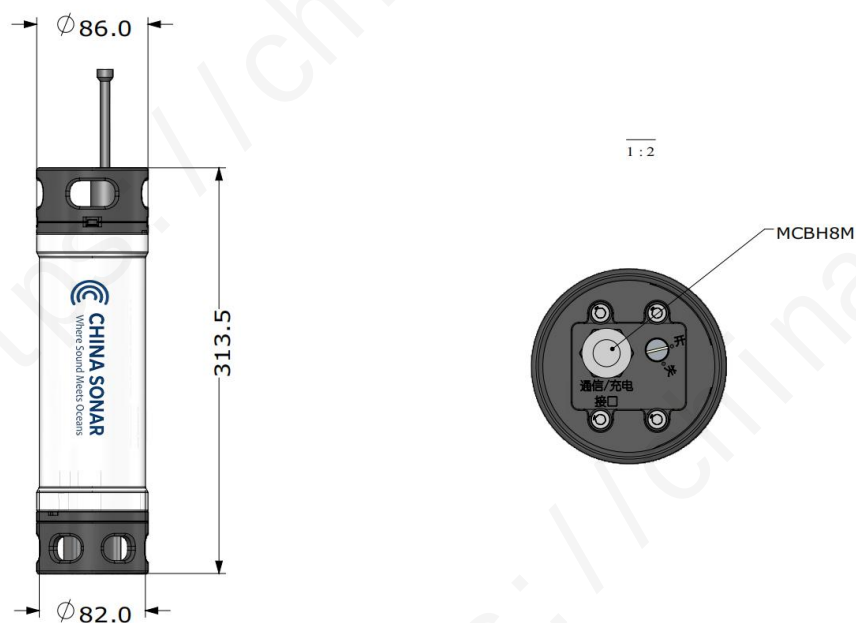
Technical Specifications

SPECIFICATIONS	
Communication Frequency Range	16kHz-32kHz
Communication Distance	Up to 3km
Communication Rate	100bps-4kbps
Bit Error Rate	10^{-4}
Operating Modes	Transmit Mode/Receive Mode
Communication Type	Half-Duplex
Communication Standard	Dual-Mode(MASS/SC-MPSK)
Maximum Working Depth	300m(over 2x design margin)
Built-In Battery Capacity	7Ah@16.8V
Control Interface	RS485/RS232/RS422
Dimensions	Diameter 82mm × Height 314mm
Weight	6.1kg (in air) / 4.8kg (in water)

Application Diagram



Dimensional Diagram



UAM-16320X-IE2T

3KM Mid-range Underwater Acoustic Modems (UAMs)
Externally Powered, More Compact Unit



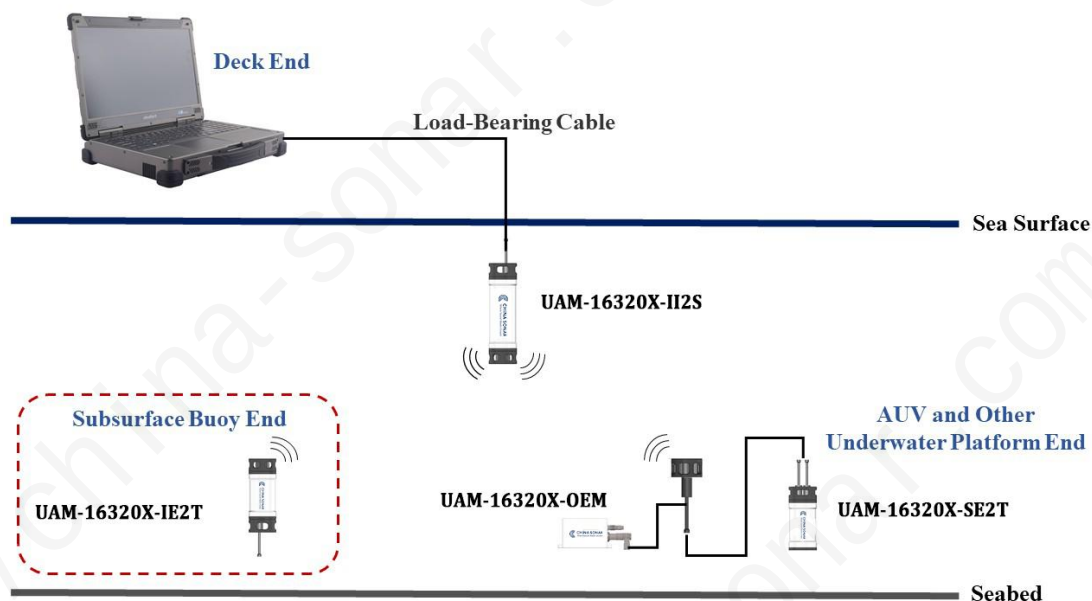
Overview

The UAM-16320X-IE2T underwater acoustic communication device is designed for shallow water applications, offering compact size and low weight. Featuring an integrated structure and TC4 titanium alloy, it comes with an RS232 serial port and operates at depths of up to 300m, meeting the requirements of all waters in the Bohai Sea, Yellow Sea, and East China Sea. The device supports standard control protocols and offers technical support for protocol development. This device offers reliable underwater communication with a range of up to 3 km and a maximum user data rate of 4 kbps (with a bit error rate of 10^{-4}).

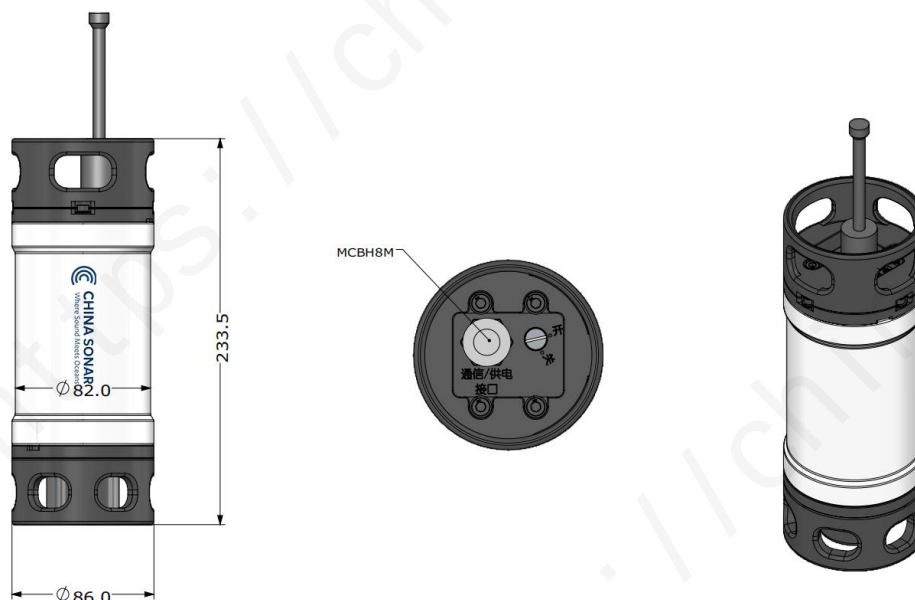
Technical Specifications

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Communication Frequency Range	16kHz-32kHz
Communication Distance	Up to 3km
Communication Rate	100bps-4kbps
Bit Error Rate	10^{-4}
Operating Modes	Transmit Mode/Receive Mode
Communication Type	Half-Duplex
Communication Standard	Dual-Mode(MASS/SC-MPSK)
Maximum Working Depth	300m(over 2x design margin)
Receive Mode Power Consumption	1.5W
Transmit Mode Power Consumption	up to 40W (with adjustable power levels)
Power Supply Voltage	DC 16.8V
Control Interface	RS485/RS232/RS422
Dimensions	Diameter 86mm × Height 234mm
Weight	2.8kg (in air) / 2kg (in water)

Application Diagram



Dimensional Diagram



UAM-16320X-SE2T

3KM Mid-range Underwater Acoustic Modems (UAMs)
Externally Powered, Allowing Users to Design Custom Battery
Compartments for Mission Requirements



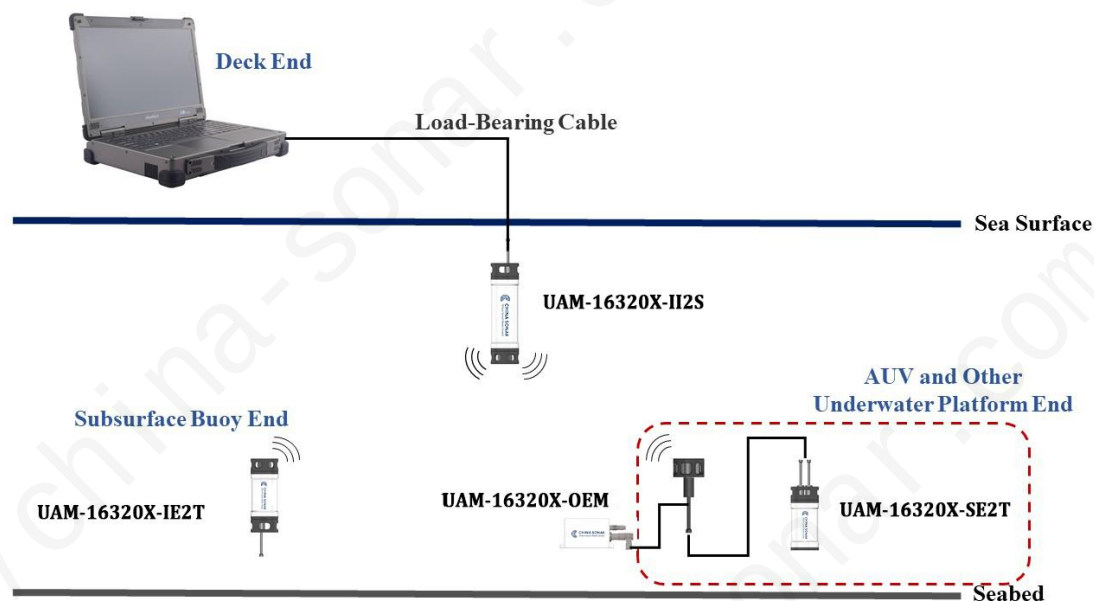
Overview

The UAM-16320X-SE2T underwater acoustic communication device is externally powered, allowing users to design custom battery compartments based on mission requirements to meet diverse needs. Featuring a modular structure, it operates at depths of up to 300m, offering flexible installation options. Constructed from TC4 titanium alloy for lightweight design, it meets the needs of weight-sensitive users. The device supports standard control protocols and offers technical support for protocol development. This device offers reliable underwater communication with a range of up to 3 km and a maximum user data rate of 4 kbps (with a bit error rate of 10^{-4}).

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Bit Error Rate	10^{-4}
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Communication Type	Half-Duplex
Communication Standard	Dual-Mode(MASS/SC-MPSK)
Maximum Working Depth	300m(over 2x design margin)
Receive Mode Power Consumption	1.5W
Transmit Mode Power Consumption	up to 40W (with adjustable power levels)
Power Supply Voltage	DC 16.8V
Control Interface	RS485/RS232/RS422
Dimensions	Diameter 86mm × Height 192mm
Weight	2.5kg (in air) / 1.67kg (in water)

Application Diagram



Dimensional Diagram



UAM-16320X-OEM

3KM Mid-range Underwater Acoustic Modems (UAMs)
Customized OEM Model for Deep Collaboration



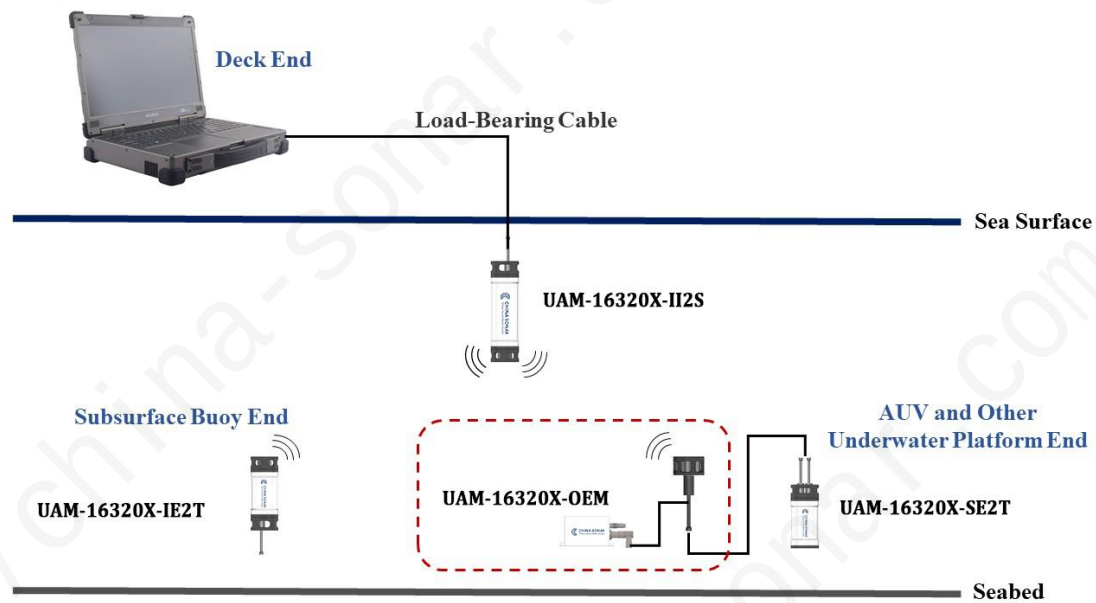
Overview

The UAM-16320X-OEM underwater acoustic communication device is a customized model for deep collaboration, available in an OEM form. It supports large platforms such as moorings, seabed stations, UUVs, gliders, wave gliders, and buoys. With OEM integration and extensive platform adaptation experience, it offers maximum flexibility for customers. The accompanying OEM sensor is capable of operating at depths of up to 300m. The device supports standard control protocols and provides technical support for protocol development. This device offers reliable underwater communication with a range of up to 3 km and a maximum user data rate of 4 kbps (with a bit error rate of 10^{-4}).

Technical Specifications

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Communication Frequency Range	16kHz-32kHz
Communication Distance	Up to 3km
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Bit Error Rate	10^{-4}
Operating Modes	Transmit Mode/Receive Mode
Communication Type	Half-Duplex
Communication Standard	Dual-Mode(MASS/SC-MPSK)
Maximum Working Depth	300m(over 2x design margin)
Receive Mode Power Consumption	1.5W
Transmit Mode Power Consumption	up to 40W (with adjustable power levels)
Power Supply Voltage	DC 16.8V
Control Interface	RS485/RS232/RS422
Dimensions	Length 128mm × Width 98mm × Height 70mm
Weight	1kg (in air)

Application Diagram



Dimensional Diagram

