

ONWA[®]

MARINE ELECTRONICS



MODEL

KS-200A+

Class B+ AIS Transponder
Black Box



AIS Technology

MEB Supported

CLASS B+

Built-in AIS Transponder

RS232 / WIFI

Dual
Programming interface

exactTrax™

exactTrax TRACKING SERVICE

NMEA0183

NMEA2000

Interface

AIS TECHNOLOGY, AND ONWA AIS SOFTWARE

■ AIS TECHNOLOGY

The ONWA Class B+ AIS Transponder transmits and receives all AIS data of nearby targets around your boat (with suitable VHF Antenna)



Class B+ AIS Technology

SOTDMA Technology

- Same technology used by Class A
- Guaranteed time slot allocation

5W Transmission Power

- increases the range and AIS Satellite reception enabling Global tracking

Increased Transmission Rate (Based on speed)

■ User friendly interface

Stay connected like never before. The KS-200A+ now includes built-in Wi-Fi, allowing for seamless updates, and effortless integration with other devices onboard.

■ Dual Color LED Pilot Light

With the addition of a dual color LED pilot light, the KS-200A+ provides a clear and unambiguous indication of GPS fix status. This innovative feature ensures that you're always informed about the GPS status at a glance, enhancing safety and reliability.

■ NMEA 2000 Compatibility

Expanding on its predecessor's capabilities, the KS-200A+ offers full NMEA 2000 support, ensuring flawless communication with all NMEA-compatible devices. This feature enhances the flexibility and efficiency of data sharing across your vessel's network.

■ Web configuration or RS232 programming interface

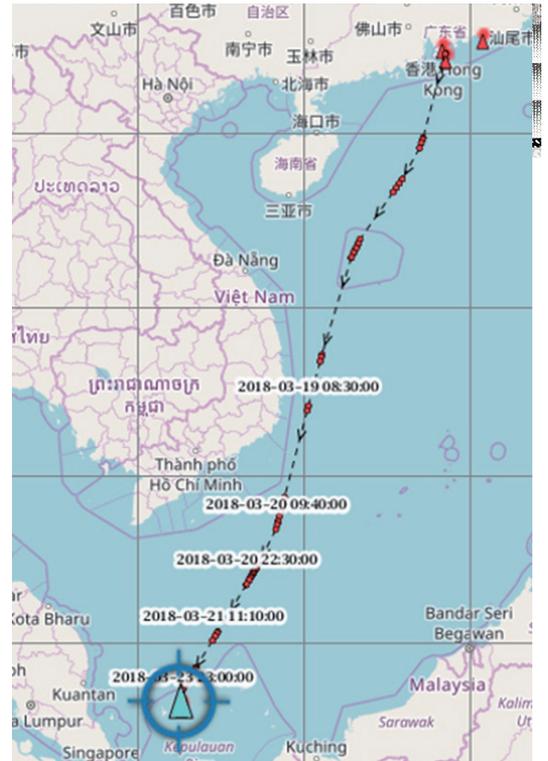
Configure AIS information for your vessel, such as MMSI, Call Sign, Vessel name, etc.

exactTrax™ (exactTrax Tracking)

*Specify when ordering

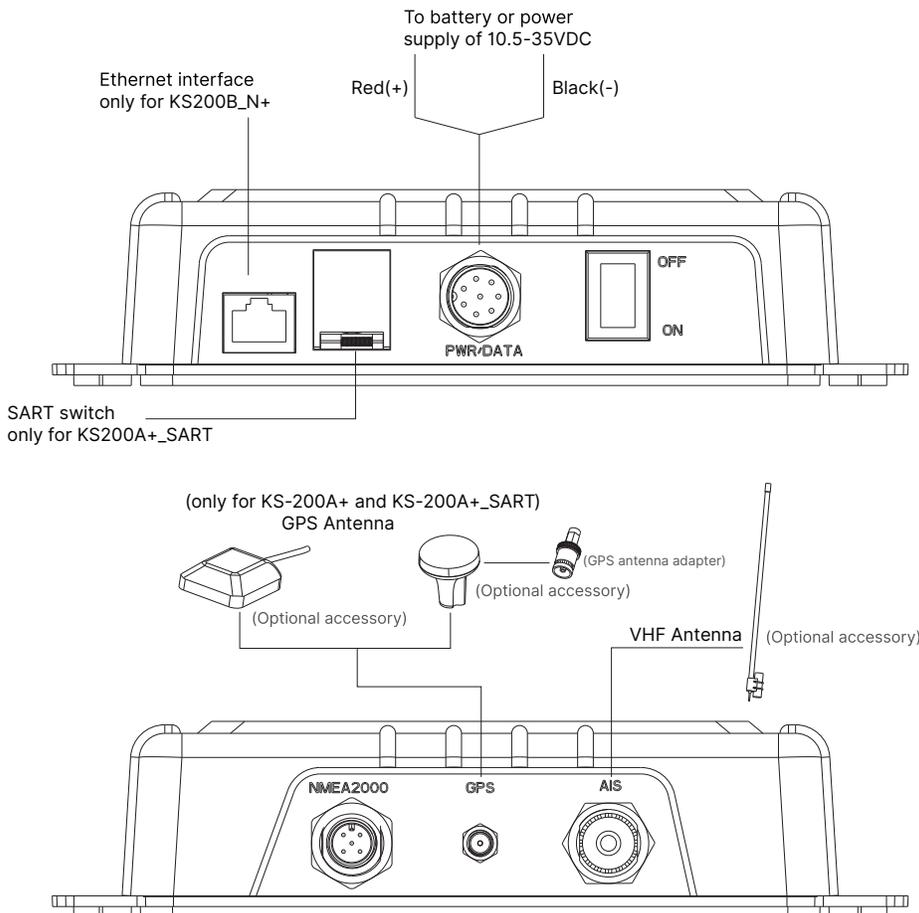
- Track fishing boats and small commercial vessels with AIS Class B type transceivers across the globe.
- Can send standard AIS message and exactTrax message (exactTrax message shows MMSI and position only).
- ONWA AIS can connect other sensors to the AIS module, such as ultrasonic weather sensor and speed log, to send with exactTrax message.

NOTE: In order to use exactTrax, user must avail ExactEarth Service



ExactTrax showing position of a vessel sailing for 1 week from Hong kong to Malaysia in multi-hour vessel track

SYSTEM CONFIGURATION



*Suitable VHF Antenna

•KA-159

(not included in the set, specify when ordering)



*GPS Antenna

•KA-07

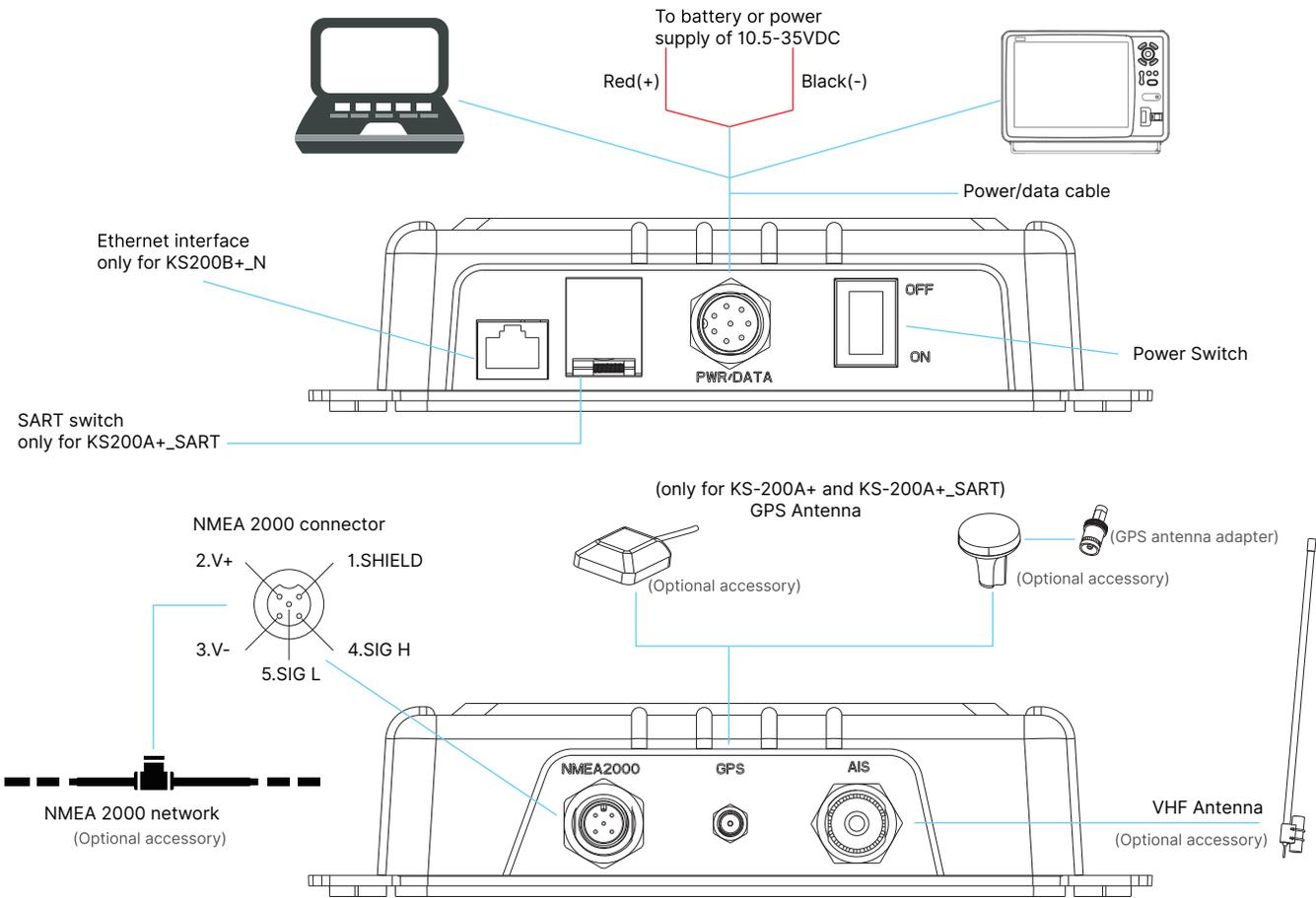
(not included in the set, specify when ordering)



SPECIFICATIONS

GPS Receiver (AIS Internal)	IEC 61108-1 compliant
Connectors	VHF Antenna connector PL259 female GPS Antenna connector SMA female NMEA 2000 Interface
PHYSICAL	
Dimension:	200mm(length) x 102mm(width) x 45.8mm(height)
Weight:	0.45kg
POWER	
Input:	10.5~35VDC
Power Consumption:	0.20A nominal
Electrical Interface	RS232 38,400 baudrate bi-directional
Environmental	IEC 60945 (Cat C)
Operating Temperature:	-25°C to +60°C
NMEA Sentence Supported	VDM, VDO, RMC, GSV, GGA, GSA
AIS CHARACTERISTICS	
Frequency Rate:	161.975 MHz, 162.025MHz
Access Scheme:	SOTDMA
Channel Bandwidth:	25KHz
Modulation:	AIS GMSK
Number of AIS Transmitter:	1
Number of AIS Receiver:	2
AIS Channel 1:	CH 87B (161.975 MHz)
AIS Channel 2:	CH 88B (162.025 MHz)
Standard TX Power Output:	5W
Customizable TX Power Output:	2W, 12.5W
RX Sensitivity:	≤ -112dBm @ 20% PER
RX Message Format:	AIS Class A and B messages
Comply Standard:	IEC-62287 IEC 62287-2 Ed. 2.0:2017

Interconnection diagram



Dimension

