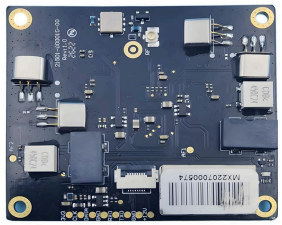
AIS RECEIVER MODULE

HS-MX1206GT

Embedded Dual-Channel AIS Receiver Module

60 × 52 × 10 mm · FPC interface · dual-channel reception



The HS-MX1206GT is an ultra-compact embedded dual-channel AIS receiver module measuring 60 × 52 × 10 mm. A standard FPC interface and 3.3 V TTL serial output make it straightforward to design into marine navigation, communication and monitoring systems.

Both AIS channels are received simultaneously, with sensitivity better than −119 dBm at 20% PER and strong adjacent-channel and blocking performance for reliable reception in dense traffic.

KEY FEATURES

- Dual-channel AIS reception (AIS1 and AIS2)
- Receiver sensitivity < −119 dBm at 20% PER
- Adjacent channel selectivity ≥ 70 dB, blocking ≥ 90 dB
- 3.3 V TTL serial output in NMEA 0183 format
- FPC interface for compact integration
- 9–36 VDC input, 150 mA operating current

TECHNICAL SPECIFICATIONS

Parameter	Specification
AIS channels	AIS1 161.975 MHz, AIS2 162.025 MHz
Receiver sensitivity	< −119 dBm @ 20% PER
Intermodulation	≥ 65 dB
Adjacent channel selectivity	≥ 70 dB
Spurious selectivity	≥ 70 dB
Blocking	≥ 90 dB
Communication interface	3.3 V TTL serial, NMEA 0183
Baud rate	38,400 bps
Operating voltage	9–36 VDC
Operating current	150 mA
Dimensions	60 × 52 × 10 mm
Connector	FPC interface
Operating temperature	−30 °C to +70 °C

• The module accepts 12 V or 24 V DC input; allow one second after power-up before data is valid.
• Reference schematic and FPC pin definition are provided for integration.

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APPLICATIONS

- AIS receiver terminals and black boxes
- Vessel tracking and fleet management systems
- Maritime situational awareness platforms
- AtoN and beacon controllers
- USV and UAV AIS integration

QUALITY, COMPLIANCE & SUPPORT

- Designed and tested against the applicable IEC / ITU-R / NMEA standards for the product family
- Functional test and calibration before shipment
- CE / FCC / CCS certification in progress for selected models
- Standard warranty against manufacturing defects; period confirmed per product
- Technical documentation and configuration tools supplied for integration
- Engineering support for custom firmware, connectors and cabling

COMMERCIAL INFORMATION

ORDERING & CUSTOMISATION

MOQ	10 units for standard models; confirmed for custom configurations
Lead time	2–4 weeks for standard models; confirmed for custom or volume orders
Payment	T/T; other terms by agreement
Samples	Evaluation samples available
Customisation	Firmware configuration, connector, cable assembly, labelling and packaging to your specification

PACKING & DELIVERY

Packing	Anti-static bag, foam and export carton; palletised on request
Shipping	Express (DHL / FedEx / UPS), air freight or sea freight — quoted per order
Origin	Xi'an, China
Documentation	Datasheet, user manual, pinout and test data on request

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Tel +86 180 6672 6340 · sales@haisitek.com · www.haisitek.com
Inertial sensors, IMU / INS and AIS modules since 2015.

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