

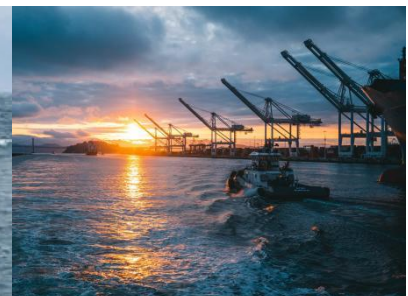
HS-MX1205GT

New Gen Multi-Mode 12.5W AIS Transceiver Module
Excellent Rx Sensitivity to -119dBm @ 20% PER

Target for AIS Class A, AtoN, Virtual AtoN, USV and UAV



- Using a dedicated high performance AIS processor using SDR technology
- Integrates full-function AIS transceiver
- Support for 1/2/5/12.5W SOTDMA Class specification
- Excellent Rx sensitivity down to $-119\text{dBm}@20\%PER$
- Meet type I/II/III AIS AtoN requirements
- Automatically receiving and processing of all AIS message
- Can receiving then decoding position, heading, speed and other information according to the standard format of AIS message
- Comply with IEC 60945, IEC 61993-2, IEC 62320-2, ITU-R M1371-5 standards
- Ultra small size (90mm x 90mm x 15mm)
- Suitable for general shipborne AIS Class A terminal, AIS base-station, AIS AtoN, maritime UAV, USV, offshore wind power system equipment and bridge collision avoidance early warning system



BRIEF INTRODUCTION

HS-MX1205GT is the newest & compact multi-mode AIS(Automatic Identification System) Class A transceiver that integrates 12.5W SOTDMA Class A technology to meet the market demands of next-generation ships and shore-based communication networks, providing important and effective navigation assistance and communication method for ship pilots and shore-based management.

SAFETY

AIS improves safety on water through enhanced navigation awareness and reduces time of Search & Rescue.

SECURITY

AIS helps to identify and track vessels and improve border security by transmitting precise navigation data.

VESSEL MONITORING SYSTEM

AIS enables automatic control and intruder or vessel movement alerts within designated areas.

PORT VESSEL TRAFFIC MANAGEMENT

AIS enables port traffic management by using precise tracking and identification data.

SPECIFICATIONS

Power Supply: 6 to 36 VDC
 Power Consumption: 200mA @ 12VDC, <2.3W average
 Output Power: 1W or 12.5W
 GPS: Built-in 50 channel GPS receiver
 IEC 61108-1 compliant
 Data Interface: 3.3V TTL, NMEA0183
 IEC61162-1: NMEA0183 input & output, 38400bps
 Silent mode switch input
 VHF Transceiver: transmitter x 1 / receiver x 2
 Operation Frequency: 156.025 to 162.025MHz in 25KHz
 Receiver Sensitivity: <-119dBm @ 20% PER
 Four LED indicators for power, transmit, receive and error
 IEC60945 compliant
 Operating Temperature: -20°C to +60°C
 Standards and Approvals
 IEC61993-2 Edition 2
 ITU-R M.1371-5
 IEC60945 Edition 4
 IEC61162-1/2 Edition 2
 IEC61108-1

SUPPLIED WITH

AIS configuration command guide
 Datasheet and user manual
 GPS Antenna
 AIS Antenna(Optional)

KEY FEATURES

Multi-mode configurable AIS Class A, base station, A
 Rx sensitivity down to -119dBm @ 20% PER
 Wide supply voltage 9~36V
 Small size 90mm x 90mm x 15mm

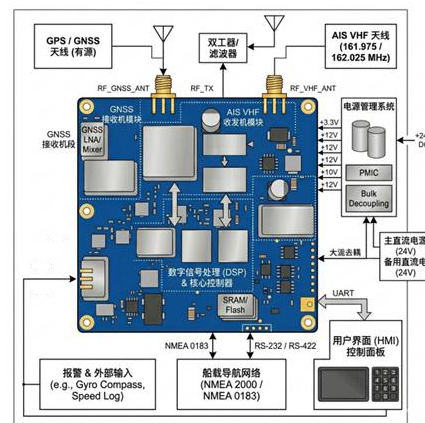
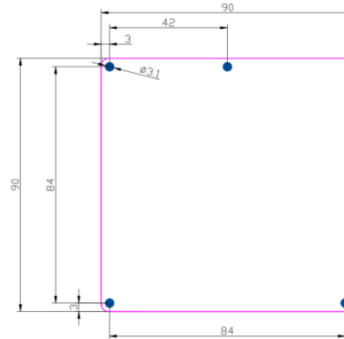
AIS Class A transponder
 AIS base station
 Electronic Fence for Offshore Wind Farm
 Type 1/2/3 AtoN and virtual AtoN
 UAV and USV

DIMENSIONS

90mm x 90mm x 15mm

WEIGHT

100g



TYPICAL APPLICATIONS

Specifications subject to change without notice Rev1.0: April 2026

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