

AIS Receiver CYPHO-150



Product Overview

The AMEC CYPHO-150 is an AIS receiver. It receives AIS navigation data from AIS-equipped vessels nearby and the data is utilized to improve navigation safety. CYPHO-150 is designed to inter-operate with AIS Class A or Class B transponders, or any other AIS station operating on the AIS VHF data link.

CYPHO-150 is built with two parallel AIS receivers in one box. The default frequencies are standard marine VHF AIS channels, i.e. 161.975 and 162.025 MHz. Having CYPHO-150 AIS receiver on board, not only can you monitor the status of the vessels in the surrounding area, but also receive the dynamic information (position, speed, SOG, etc.), static information (ship name, MMSI, call sign, etc.), and voyage related information (cargo type, destination, etc.) from any vessels nearby that are equipped with AIS transponders.

Equipped with standard USB and NMEA0183, CYPHO-150 allows connectivities to most available peripherals in the market. Through USB, users are able to view AIS information on their preferred navigation chart software on their PCs or notebooks.

CYPHO-150 is IPX2 water resistant providing acceptable protection against water. It complies with international IEC 60945 standard and has gained CE/FCC conformity. You have made a smart choice to ensure a happy and safety journey.

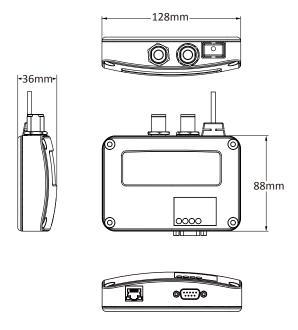
Key Features

- ► Able to receive all AIS information from Class A, Class B, Base Station, AIS AtoN, AIS SART, etc.
- Compact size, robust housing, easy installation
- Capable of connecting to chartplotter or PC
- ▶ Built-in VHF antenna splitter with low insertion loss (CYPHO-150S only)
- Designed with sophisticated dual-channel receivers
- ► Field-proved exceptional receiving sensitivity performance
- ► Connect to a PC or a Network via the standard RJ-45 Ethernet connector (CYPHO-150G only)
- ► Supplied with user-friendly AMEC AIS Viewer software for PC

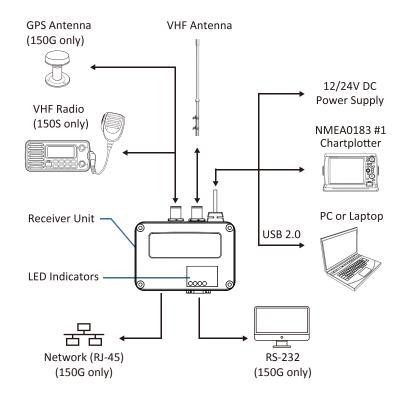
Ordering Information

Model	Interfaces Supported						
	VHF Antenna	NEMA0183	USB	VHF Radio	GPS	RS-232	Network
CYPHO-150	•	•	•				
CYPHO-150S	•	•	•	•			
CYPHO-150G	•	•	•		•	•	•

DIMENSIONS



CONNECTION DIAGRAM



SPECIFICATIONS

▶ APPLICABLE STANDARDS

IEC 62287-1 (applicable parts) IEC 60945 (applicable parts)
ITU-R M.1371 (applicable parts) IEC 61162 (applicable parts)

► AIS RECEIVER

Number of AIS Receivers 2 channels

CH-1 CH 87B (161.975MHz)
CH-2 CH 88B (162.025MHz)

Channel Bandwidth 25KHz

Message Format AIS Class A & B messages
Data Rate 9,600bps / per channel
Receive Sensitivity -112 dBm @ PER \leq 20%

POWER SUPPLY

Supply Voltage 12 / 24V DC Power Consumption <1.50 Watt

LED INDICATION

CYPHO-150 Power, Error, AIS Rx

CYPHO-150S Power, Error, AIS Rx, Radio Tx

CYPHO-150G Power, Error, AIS Rx, Link/Act

RF PERFORMANCE (CYPHO-150S only)

Frequency Range 156.025 ~ 162.025 MHz

AIS Receiver Sensitivity -110dBm (when not connecting to DSC)

VHF Port Insertion Loss Receiver Path: 3.5dB
Transmit Path: 1.2dB

Note: Specifications are subject to change without prior notice.

CYPHO-150G SUPPORTED PROTOCOLS

Protocol TCP/IP & UDP/IP

EXTERNAL CONNECTORS

VHF Antenna Connector SO-239 (Female)

NMEA 0183 38400 (default), 9600, 4800 bps

USB 2.0 Supported

VHF Radio Supported (CYPHO-150S only)
GPS Supported (CYPHO-150G only)
RS-232 Supported (CYPHO-150G only)
Ethernet 10/100 Base-T (RJ-45, 2PIN Power)
(CYPHO-150G only)

ENVIRONMENTAL

Operating Temperature -15°C~55°C

Storage Temperature -25°C~70°C

Humidity Operation 0~95% RH at 40°C

Vibration IEC 60945

Waterproof IPX2

PHYSICAL DIMENSIONS

 Length
 128 mm (4.99 in)

 Width
 36 mm (1.40 in)

 Depth
 88 mm (3.43 in)

 Weight
 210 g (including cable)





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