

# **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.

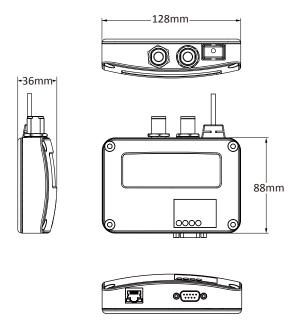
# **Key Features**

- ► 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-150GE only)
- ► Supplied with user-friendly AMEC AIS Viewer software for PC

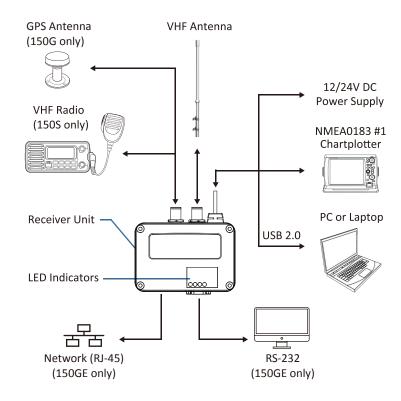
# Ordering Information

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

### **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 Receivers2 channelsFrequency Range156.025 ~ 162.025 MHzCH-1Default CH 87B (161.975MHz)CH-2Default CH 88B (162.025MHz)Channel Bandwidth25KHzMessage FormatAIS Class A & B messagesData Rate9,600bps / per channel

-112 dBm @ PER ≤ 20%

► POWER SUPPLY

Receive Sensitivity

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

# ► LED INDICATION

CYPHO-150 Power, Error, AIS Rx

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

CYPHO-150GE Power, Error, AIS Rx, GPS, Ethernet

#### **▶ CYPHO-150GE SUPPORTED PROTOCOLS**

Protocol TCP/IP & UDP/IP

Note: Specifications are subject to change without prior notice.

## ► RF PERFORMANCE (CYPHO-150S only)

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

### **EXTERNAL CONNECTORS**

VHF Antenna Connector

NMEA 0183

38400 (default), 9600, 4800 bps

USB 2.0

VHF Radio

Supported (CYPHO-150S only)

GPS

Supported (CYPHO-150GE only)

RS-232

Supported (CYPHO-150GE only)

Ethernet

10/100 Base-T (RJ-45, 2PIN Power)
(CYPHO-150GE 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)





#### **Alltek Marine Electronics Corporation**

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