

Simply Clear.



CYPHO-101

Real Dual Channel AIS Receiver -

AMEC CYPHO-101 can receive all AIS broadcast messages from both AIS channels simultaneously and consolidate the messages from both channels into a single data stream. Basically, AMEC CYPHO-101 can receive signals faster than other AIS receivers which only can receive one channel at a time.

High Receive Sensitivity -

AMEC CYPHO-101 has outstanding receive sensitivities which allow users to receive wider AIS coverage. The UK magazine, Practical Boat Owner, has tested AMEC CYPHO-101 with highest receive sensitivities, -114 dBm, among 18 AIS receivers.

Fully CE Compliant -

Constructed with rugged hard-anodized aluminum case with sealed connectors and front- and back-panel gaskets for water resistance and a longer lifetime in harsh marine environments. CYPHO-101 series have been strictly tested against IEC 60945 and relevant standards. It is fully CE compliant.

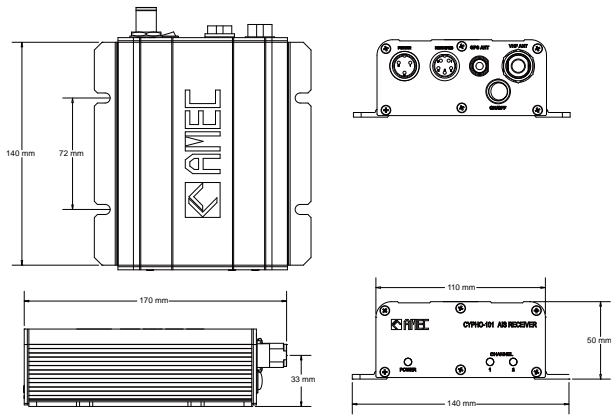
- ▶ Dual channel receiver design
- ▶ Receives both Class A and Class B AIS messages
- ▶ Compatible with major AIS-ready Navigation Systems
- ▶ Robust housing design, easy for installation
- ▶ Innovative wireless design
- ▶ Friendly AIS Viewer software for PC --- Graphical display with two viewing modes: Chart & Alphanumeric View
- ▶ Greatly improves the level of the situational awareness, even in bad weather, worse vision or congested waterways

KEY FEATURES

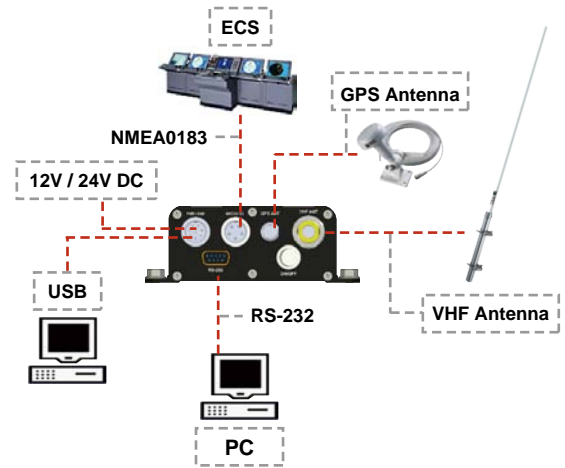
ORDERING INFO.

CYPHO-101:	VHF Antenna, NMEA, RS-232, Power/USB interfaces.
CYPHO-101E:	VHF Antenna, NMEA, Power interfaces.
CYPHO-101G:	VHF Antenna, GPS Antenna, NMEA, RS-232, Power/USB interfaces.

DIMENSIONS



CONNECTION DIAGRAM



SPECIFICATIONS

▶ APPLICABLE STANDARDS

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

▶ POWER SUPPLY

Supply Voltage	12V / 24V DC
Power Consumption	Less than $\leq 2W @ 12V$

▶ LED INDICATION

3 LED Indicators	1 Power on, 2 Rx receiving indicators
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▶ VHF RECEIVER

Frequency Range	161.975 MHz ~ 162.025 MHz
Channel Bandwidth	25 KHz
Number of AIS Receivers	2 Channels
CH-1	Default CH 87B (161.975 MHz)
CH-2	Default CH 88B (162.025 MHz)
Message Format	AIS Class A & B messages
Sensitivity	PER $\leq 20\%$ at -107 dBm

▶ GPS RECEIVER (CYPHO-101G only)

Receiving Channels	12 channels
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▶ CONNECTION INTERFACE

GPS Antenna Connector	TNC (Female) (CYPHO-101G only)
VHF Antenna Connector	Type M (Female) (PL-259)
NMEA 0183	38,400 bps
RS-232	CYPHO-101, CYPHO-101G only
PWR / USB	CYPHO-101, CYPHO-101G only

▶ ENVIRONMENTAL

Operating Temperature	-15°C~55°C
Storage Temperature	-25°C~70°C
Operating Humidity	95% RH at 40°C
Waterproof	IPX5
Vibration, EMI, ESD	IEC 60945

▶ PHYSICAL

Width	110 mm (4.33 inch)
Height	50 mm (1.97 inch)
Depth (include connectors)	150 mm (5.90 inch)
Weight	500 g

▶ SOFTWARE TOOL

AMEC AIS Viewer	AIS Viewer for PC
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Note: Specifications are subject to change without prior notice.



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The AIS Specialists

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