Network AIS Shore Station!

Product Overview

AMEC WideLink R150GE is an AIS receiver designed specifically for shore monitoring applications but it can also be used like a normal AIS Receiver for small commercial vessels, fishing vessels, yachts, and sailboats. Built on the superior performance of CYPHO-150, R150GE provides extensive functionality including integrated GPS receiver and comprehensive connection interfaces.

Employing two parallel AIS receivers, R150GE delivers superb receiving sensitivity to ensure maximum reception range of all AIS messages. R150GE is also fit to be deployed as receiving station on shore or remote locations and re-route AIS messages to the dedicated server or any designated IP address via the TCP/IP or UDP/IP.
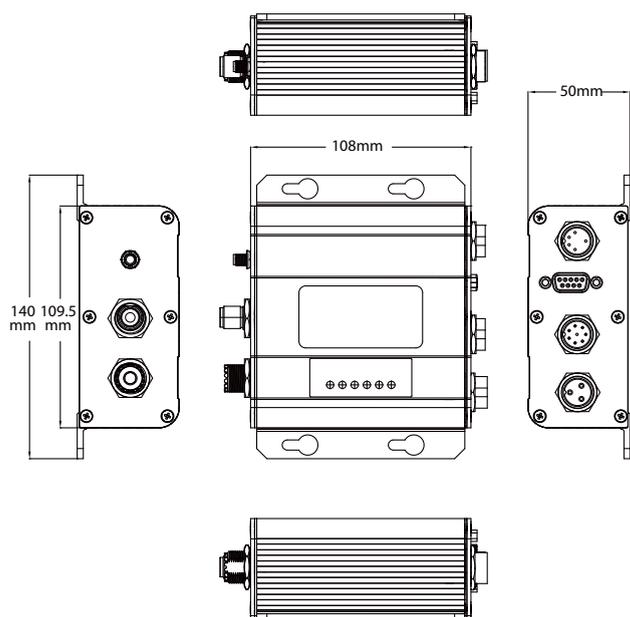
The user can also use the R150GE just like a standard AIS receiver by connecting it to PC or chart plotter via USB, serial port (RS-232) or NMEA 0183, and access AIS data conveniently on any portable devices wirelessly over Wi-Fi. Moreover, when connected to a GPS antenna the receiver will output AIS data together with own vessel´s speed, course, and location.

The unit is equipped with standard USB, RS-232, Wi-Fi, LAN, GPS and NMEA0183 interfaces.
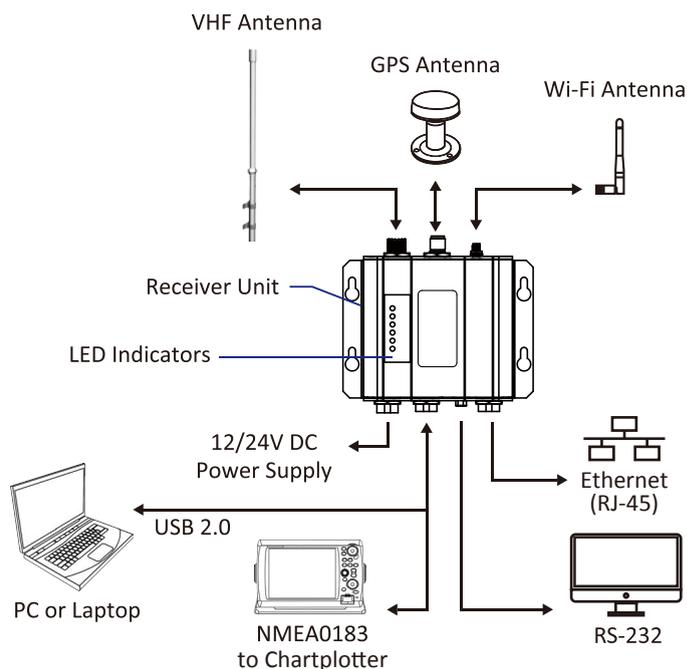
Key Features

▶ Sophisticated dual-channel AIS receivers

▶ Field-proven exceptional performance of receive sensitivity

▶ Receive all AIS information including Class A, Class B, Base Station, AtoN, SART, MOB, etc.

▶ Connect to a PC or a Network via standard RJ-45 Ethernet connector

▶ Able to configure a unique socket ID string for each of the receiver shore station

▶ Connect to a chart-plotter typically via NMEA0183

▶ Support variant interfaces: NMEA0183, RS232, RJ-45, Wi-Fi, USB

▶ Support AC/DC power adapter to ease installation on shore station (OPTIONAL)

▶ Compact size, robust aluminum housing, IP52 waterproof

▶ Supplied with user-friendly AMEC AIS Viewer software for PC

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
Frequency Range	156.025 ~ 162.025 MHz
CH-1	Default CH 87B (161.975MHz)
CH-2	Default 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 ≤ 20%

▶ POWER SUPPLY

Supply Voltage	12 / 24V DC
Power Consumption	<6 Watt

▶ LED INDICATION

Power, Error, AIS Rx, GPS, Ethernet, Wi-Fi

▶ WideLink R150GE SUPPORTED PROTOCOLS

Protocol	TCP/IP & UDP/IP

▶ GPS RECEIVER (integrated)

Receiving Channels	50 channels
Accuracy	IEC 61108-1 compliant
Output Rate	1 Hz
Support: GPS, Gallieo, Beitou, Glonass	

▶ EXTERNAL CONNECTORS

VHF Antenna Connector	SO-239 (female)
GPS	TNC (female)
NMEA 0183	38400 (default), 9600, 4800 bps
USB 2.0	Mini type, waterproof
Ethernet	10/100 Base-T (RJ-45)
RS-232	DB9
Wireless Connection	IEEE 802.11 b/g/n for Access Point or Client Mode
Wireless Security	WPA2-AES for Access Point or Client Mode

▶ ENVIRONMENTAL

Operating Temperature	-15℃~55℃
Storage Temperature	-25℃~70℃
Humidity Operation	0~95% RH at 40℃
Vibration	Compliant with IEC 60945
Waterproof	IP52

▶ PHYSICAL DIMENSIONS

Length	108 mm (4.25 in) without connectors
Width	140 mm (5.51 in)
Depth	50 mm (1.96 in)
Weight	450 g

Note: Specifications are subject to change without prior notice.

The AIS Specialists

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