

AIS Network Receiver

WideLink R150GE



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.

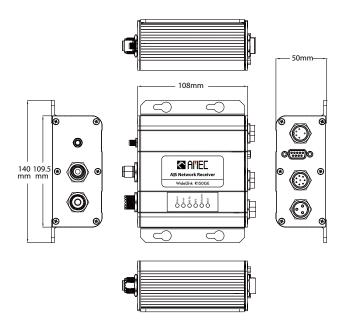
The user can also use the R150GE just like a standard AIS receiver by connecting it to PC or chart plotter via USB, serial port (RS-232) or NMEA 0183, and access AIS data conveniently on any portable devices wirelessly over Wi-Fi. Moreover, when connected to a GPS antenna the receiver will output AIS 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.

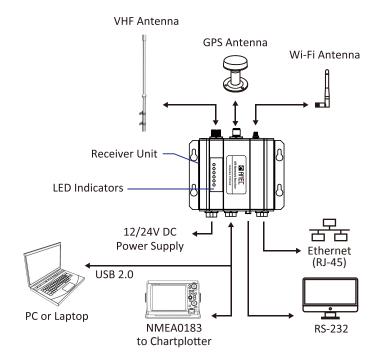
Key Features

- 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

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

Channel Bandwidth 25KHz

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

POWER SUPPLY

Supply Voltage 12 / 24V DC

Greater than 1.5W; Less than 6W **Power Consumption**

LED INDICATION

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

WideLink R150GE NETWORK DETAILS

TCP/IP & LIDP/IP Network Protocol IEEE 802.11 b/g/n Wireless Connection

WPA2-AES for Access Point or Client Mode Wireless Security

GPS RECEIVER (INTEGRATED)

Receiving Channels 50 channels

Accuracy IEC 61108-1 compliant

Output Rate Support: GPS, Gallieo, Beitou, Glonass

EXTERNAL CONNECTORS

VHF Antenna Connector SO-239 (female) GPE Antenna Connector TNC (female)

NMEA 0183 (RS-422) Support one NMEA 0183 interface

> Baud rate configurable (default 38,400 bps) Standard IEC 61162-1 / IEC 61162-2 sentences

RS-232 Female DB9 USB 2.0 Supported

Ethernet 10/100 Base-T (RJ-45 Female)

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 IPX54

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

Cable Length Power Cable: 1 meter

USB/NMEA: 80 centimeters

Ethernet: 1 meter

Note: Specifications are subject to change without prior notice.







Alltek Marine Electronics Corporation

14F-2, No. 237, Sec. 1, Datong Road, Xizhi District, New Taipei City, 22161, Taiwan Tel: +886 2 8691 8568 Fax: +886 2 8691 9569

Sales Contact

For more information, please contact your local representative or Alltek Marine at

sales@alltekmarine.com

www.alltekmarine.com

Distributor/Dealer