AMEC

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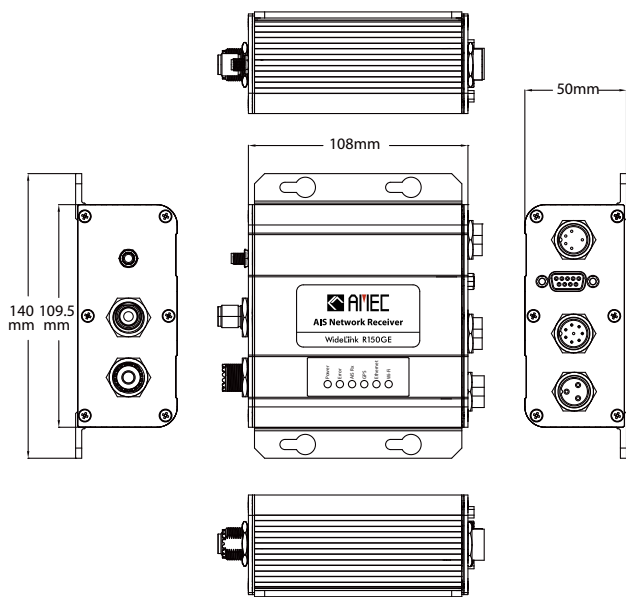
The user can also use the R150GE just like a standard AIS receiver by connecting it to PC or chart plotter via USB, serial port (RS-232) or NMEA 0183, and access AIS data conveniently on any portable devices wirelessly over Wi-Fi. Moreover, when connected to a GPS antenna the receiver will output AIS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

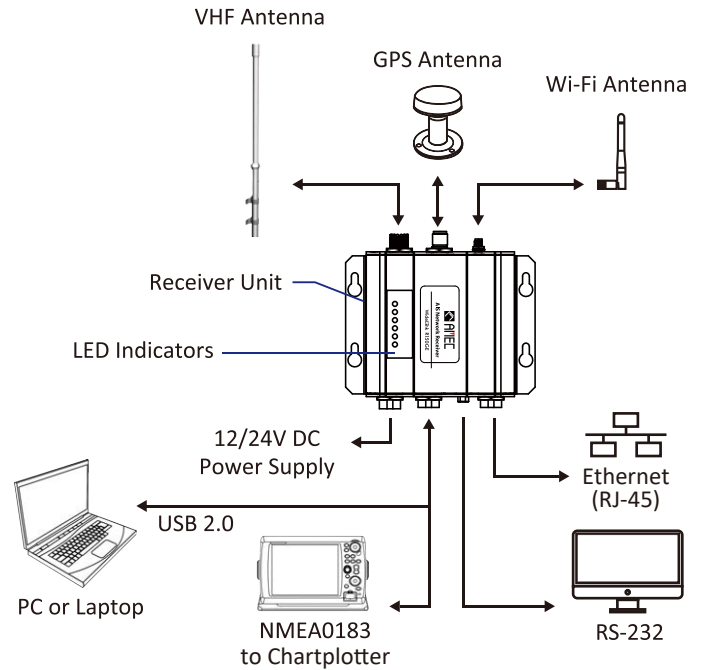The unit is equipped with standard USB, RS-232, Wi-Fi, LAN, GPS and NMEA0183 interfaces.

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

▶ 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

108mm
50mm
140 mm
109.5 mm

AMEC
AIS Network Receiver
WideLink R150GE

CONNECTION DIAGRAM

VHF Antenna
GPS Antenna
Wi-Fi Antenna
Receiver Unit
LED Indicators
12/24V DC Power Supply
USB 2.0
PC or Laptop
NMEA0183 to Chartplotter
Ethernet (RJ-45)
RS-232

SPECIFICATIONS

▶ APPLICABLE STANDARDS

ITU-R M.1371	EN 62311: 2008
IEC 60945 Ed.4.0:2002	EN 300328 V2.1.1
IEC 61162 (applicable parts)	EN 303413 V1.1.1
IEC 61108-1 (applicable parts)	EN 62368-1:2014 + A11:2017
IEC 62287-1 Ed. 2.1:2017 (applicable parts)	
EN 301489-1 V2.1.1 / EN 301489-19 V2.1.0	
EN 301489-1 V2.1.1 / EN 301489-17 V3.1.1	

▶ AIS RECEIVER

Number of AIS Receivers	2 channels
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
AIS Receive Sensitivity	-112 dBm @ PER ≤ 20%

▶ POWER SUPPLY

Supply Voltage	12 / 24V DC
Power Consumption	Greater than 1.5W; Less than 6W

▶ WideLink R150GE NETWORK DETAILS

Network Protocol	TCP/IP & UDP/IP
Wireless Connection	IEEE 802.11 b/g/n
Wireless Security	WPA2-AES for Access Point or Client Mode

▶ GPS RECEIVER (INTEGRATED)

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

▶ LED INDICATION

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

▶ 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.

FC

AMEC
The AIS Specialists

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