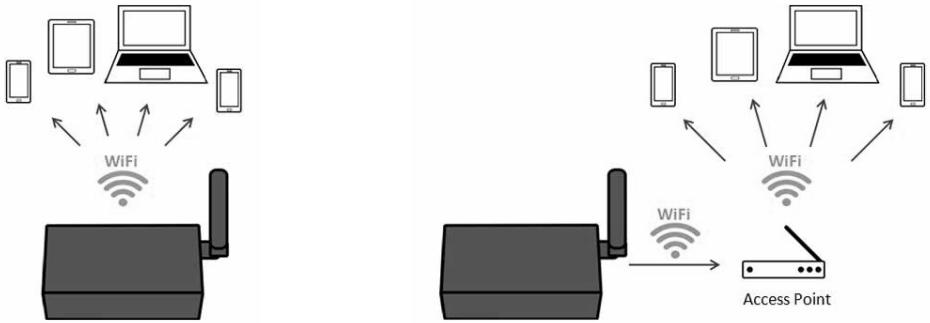
6. Connect via WiFi if desired

You can connect to our wireless products in 2 ways...

Ad-hoc mode WiFi or **Station mode WiFi**



Ad-hoc mode WiFi (direct A027 to phone/tablet/PC) is the default setting, this requires no Windows configuration.

- **On your device (phone/tablet/PC):** 15 seconds after the A027 has powered up, you can scan for a WiFi network with an SSID similar to 'QK-A027xxxx'. Connect the device to '**QK-A027xxxx**' with the default password: '**88888888**'.
- **In your chart software:** set the protocol as '**TCP**', IP address as '**192.168.1.100'** and the port number as '**2000**' in the chart software.

Station mode WiFi (A027 through a router/access point - to phone/tablet/PC) allows you to access your data at the same time as your other WiFi network data. This option requires configuration to set up the connection between the A027 and your router. See the 'Configuration' section of the manual and configuration instructions on the CD provided.

7. You can adjust baud rates if needed

To change the baud rate from the default settings (input 4800bps and output 38400bps), adjust these settings using the Configuration software.

See the 'Configuration' section of the manual and configuration instructions on the CD provided.

Disclaimer: This product is designed to aid navigation and should be used to augment normal navigational procedures and practices. It is the user's responsibility to use this product prudently. Neither Quark-elec, nor their distributors or dealers accept responsibility or liability either to the product user or their estate for any accident, loss, injury or damage whatsoever arising out of the use or of liability to use this product.

Email: info@quark-elec.com

V1.1(10/19)

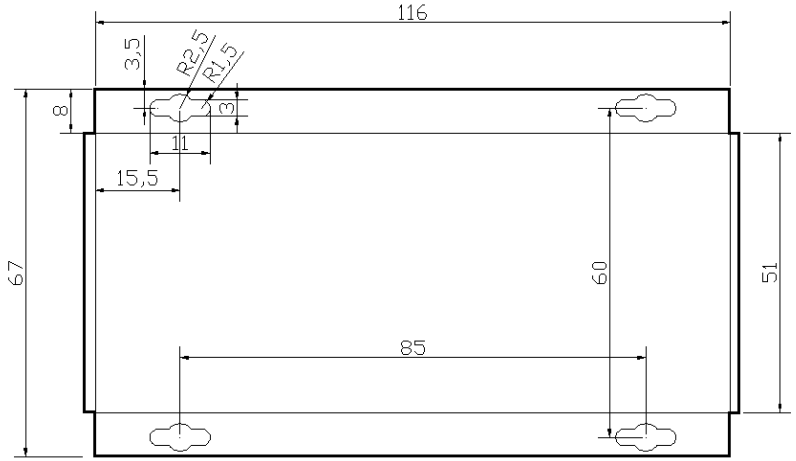
Note: SeaTalk™ is a registered trademark of Raymarine.

QUARK-ELEC

SET-UP GUIDE

QK-A027
WIRELESS AIS RECEIVER
WITH GPS + SEATALK™ CONVERTER

- **What You Need**
- **Installation Overview**
- **Notes**



All products are CE, RoHS certified

www.quark-elec.com

Please recycle your packaging

This is an overview only. Familiarize yourself with the manual and the manuals of any connecting devices before installation. It is always recommended that electronic equipment be installed by an experienced installer.

BEFORE LEAVING HOME:

12.0V from SeaTalk bus required

We recommend pre-installing the Configuration software and drivers if needed, as you might not have a CD reader/internet access on site.
Driver and Configuration software are optional and only needed for specific features.

If you will access data on a Mac/Linux/Windows PC:

- Driver required for Windows. If using Windows 10, the driver should install automatically, if not, it is included on the Free CD and at Quark-elec.com.
- Driver not required for Mac or Linux.

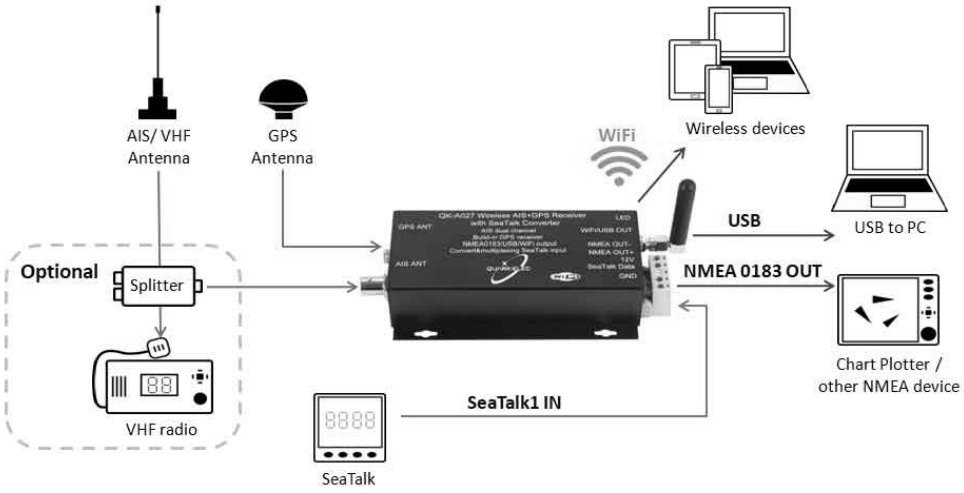
If you will connect to the A027 through Station mode WiFi: (e.g. through a router, see page 4)

- Configuration software (Windows) required. Driver may be required as above.

If you will adjust NMEA 0183 baud rates: The NMEA 0183 output baud rate is set to 38400bps as default. You can adjust the baud rates if desired, using the Configuration software.

- Configuration software (Windows) required. Driver may be required as above.

Configuration Software and specific instructions are on the FREE CD and at www.quark-elec.com.



QK-A027

INSTALLATION

1. Mounting: Consider your location…

- Dry, sturdy location, 0.5m from other WiFi equipment.
- Ensure you have the correct length of cables needed for VHF, GPS and the SeaTalk power source. If drilling holes for your cabling, seal around any holes to prevent damage to your vessel or equipment.

2. Connect your Antennas: VHF and GPS

- **Connect VHF:** If you want to use one VHF antenna for both AIS and radio (or other purposes), then you will need an active splitter. An active splitter will protect the A027 and your other VHF equipment (VHF radio). If you don't then the two signals will significantly damage each device connected as well as reducing the signal.

If using two VHF antennae, place them as far away as possible from each other. (at least 3 metres).

- **Connect GPS if desired:** The GPS antenna should be located outside where the sky is visible for best results.

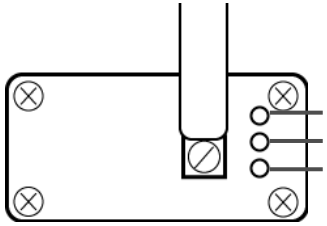
3. Connect to SeaTalk Power

The A027 uses 12.0V power. This is connected via the SeaTalk bus. Connect the 12.0V power and the ground to the A027. Make sure everything is connected securely and is the correct wiring.

Check power supply is connected '+' (12.0V) and '–' (GND) or permanent damage will be caused to the A027.

4. Check LED lights are working from A027

Flashing green lights indicate a valid signal is coming through the A027 from either GPS or AIS.



Power: Top LED (red) flashes at 3 second intervals.
AIS: Middle LED flashes for each valid message received.
GPS: Bottom LED flashes every second while valid message received.

5. Disconnect power and connect NMEA output if desired

Connect the '+' and '-' terminals of the NMEA input/output on the A027 to the '+' and '-' terminals of the output/input on the instrument.
The A027 uses NMEA 0183-RS422. If your connecting device uses the older NMEA 0183-RS232 and you are having issues with your NMEA connection, you may find swapping these terminals works for your device. Alternatively, connect it using a Quark-elec Protocol Bridge (QK-AS03).