

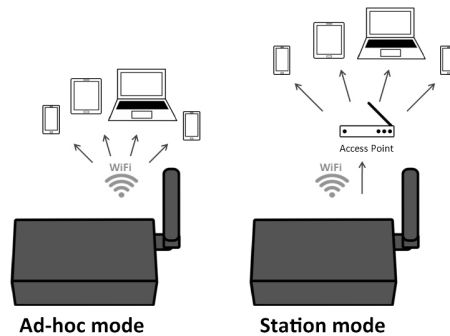
7. WiFi Ad-hoc connection

On your device (phone, laptop etc.):

15 seconds after the A034 has powered up, you can scan for a WiFi network with an SSID similar to 'QK-A034xxxx'. Connect to 'QK-A034xxxx' with the default password: '88888888'.

Chart software: in your chart software, set the protocol to 'TCP', IP address to '192.168.1.100' and port number to '2000'

For Station mode WiFi setup, use the Configuration software. (see below)



QK-A034

NMEA 0183 x3 & SEATALK™ TO 2000 CONVERTER WITH WIFI/USB OUTPUT

USING THE CONFIGURATION SOFTWARE (WINDOWS):

WiFi can be changed from Ad-hoc (default) to Station mode or Standby.

Station mode is configured by inputting your router/access point's details into the Configuration software. (once configured, the correct settings must be entered into your chart software.)

Filtering: using the black list function

If desired, selected NMEA sentences can be blocked from chosen input/s, using the 'black list' field. Remove the '\$' or '!' from the 5 digit NMEA talker and sentence identifier and insert separated by commas. For example to block '!AIVDM' and '\$GPAAM' enter 'AIVDM,GPAAM'. Up to 8 sentences types can be filtered from each input port. If blacklisting SeaTalk data, block the corresponding NMEA message (see the manual for a full list of converted messages).

Monitor the data stream Via USB

Operator can use the display tab on the operation tool to monitor all the data send from NMEA inputs, SeaTalk input to NMEA 2000 network together with all the data were send through NMEA 2000 backbone (PCDIN and NMEA 0183 format)

NMEA Baud rates: Default Baud rates are set to:

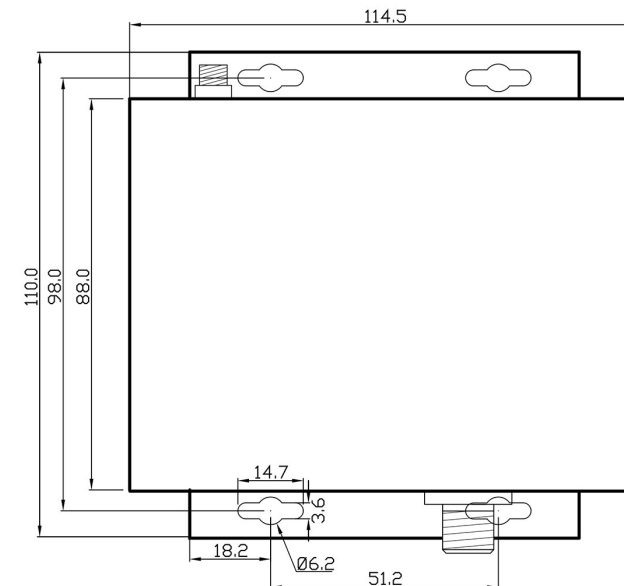
- NMEA IN 1 and 2: 4800bps
- NMEA IN 3: 38400bps


These can be changed as required.

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

V1.0(12/19) **Note:** SeaTalk™ is a registered trademark of Raymarine.



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All products are CE, RoHS certified
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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:

NMEA 2000 power required

Configuration software only works on Windows system.

Driver is required for Windows but may install automatically to Windows 10 systems (if not, it is on the free CD and at quark-elec.com)

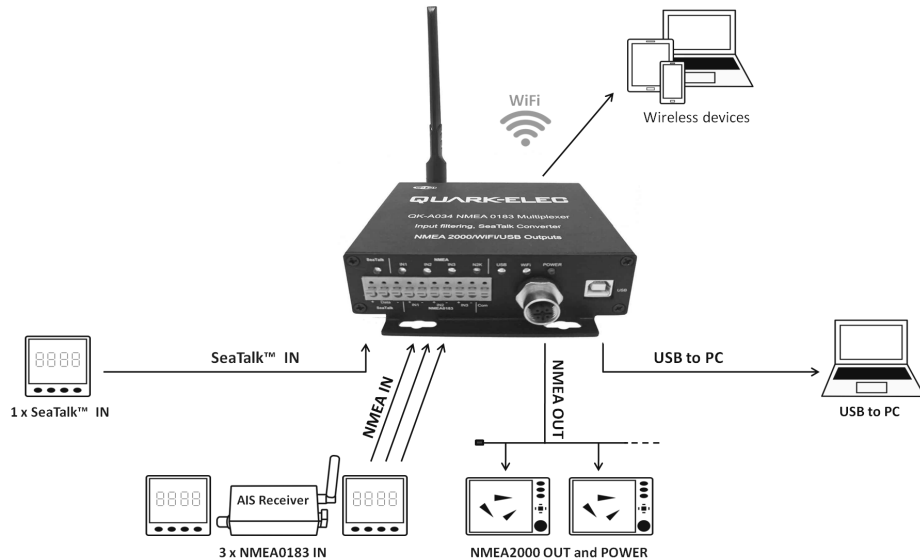
Configuration software is optional and only needed for specific features.

To use any of the following features, you will require the Configuration Software:

- Changing WiFi mode from Ad-hoc to Station mode or Standby
- Changing Baud rates from their default settings
- Filtering unnecessary NMEA 0183 sentences
- Monitor the data streams

Configuration software (Windows) will be required to adjust these settings. (see back of Setup Guide for more information). Driver may be required for older Windows PCs.

The Configuration Software, driver and full manual are included on the CD included and on quark-elec.com. **Consider whether there is a CD reader/internet access on site, if not, pre-configure your device or pre-install the Configuration software and driver if needed.)**



Installation

1. Mounting: Consider your location...

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



2. Disconnect power from NMEA 2000 Backbone and Disconnect power from all NMEA and SeaTalk devices to be connected.

3. Connect all input devices.

- **NMEA 0183:** Connect the '+' and '-' terminals of the NMEA input/output on the A034 to the '+' and '-' terminals of the output/input on the instrument.
The A034 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).
- **SeaTalk:** Take care to connect the '+', 'Data' and '-' correctly. Swapping any of these wires could permanently damage the A034 multiplexer.



4. Connect the A034 to your un-powered NMEA 2000 backbone

5. Re-Connect power to your connected devices and NMEA 2000 backbone. The A034 is powered by the NMEA 2000 backbone.

6. Check LED lights are working as expected

- **SeaTalk and NMEA IN1/2/3 LEDs** will flash for each valid message received.
- **USB and WiFi LEDs** flash for each valid NMEA message sent to USB/WiFi outputs.
- **N2K LED** will flash for each valid NMEA 2000 PGNs sent out on NMEA 2000 port.
- **Power LED** is constantly lit when the device is powered.

