

7. Standard WiFi Ad-hoc connection

On your wireless device (tablet etc.):

15 seconds after the A034 has powered up, scan for a WiFi network with an SSID similar to 'QK-A034xxxx'.

Connect to 'QK-A034xxxx' with the default password: '88888888'.

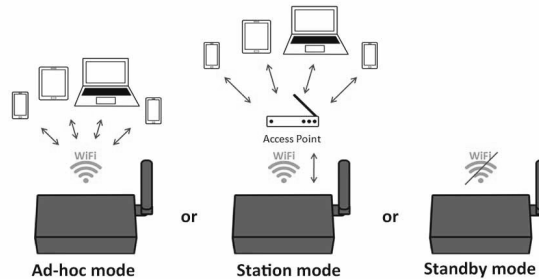


Chart software: in your chart software, set the protocol to 'TCP', IP address to '192.168.1.100' and port number to '2000'

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

QK-A034

BI-DIRECTIONAL NMEA 2000 TO WIFI AND USB MULTIPLEXER WITH NMEA 0183 AND SEATALK INPUT OPTIONS

USING THE CONFIGURATION SOFTWARE (WINDOWS):

Ad-hock WiFi passwords can be changed for security and memorability.

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).

Routing your data.

As a default, all inputs' data (excluding any filtered data) is routed to all outputs. Data can be routed to limit the data flow to certain output/s by un-ticking the corresponding boxes in the Configuration software.

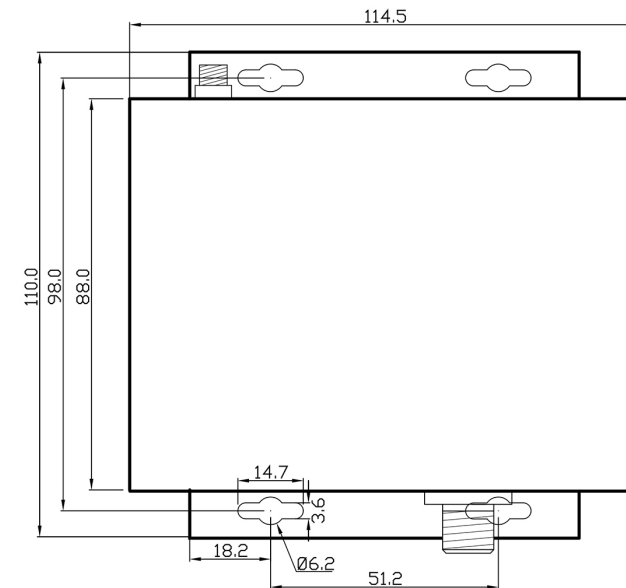
Monitor the data stream Via USB

Use the 'Display' tab on the Configuration tool to monitor all input data with all the data send through NMEA 2000 backbone. (both PCDIN and NMEA 0183 format)

NMEA Baud rates: Default Baud rates settings are:

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

These can be adjusted 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 V2.0(12/19) **Note:** SeaTalk™ is a registered trademark of Raymarine.



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More information at www.quark-elec.com



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

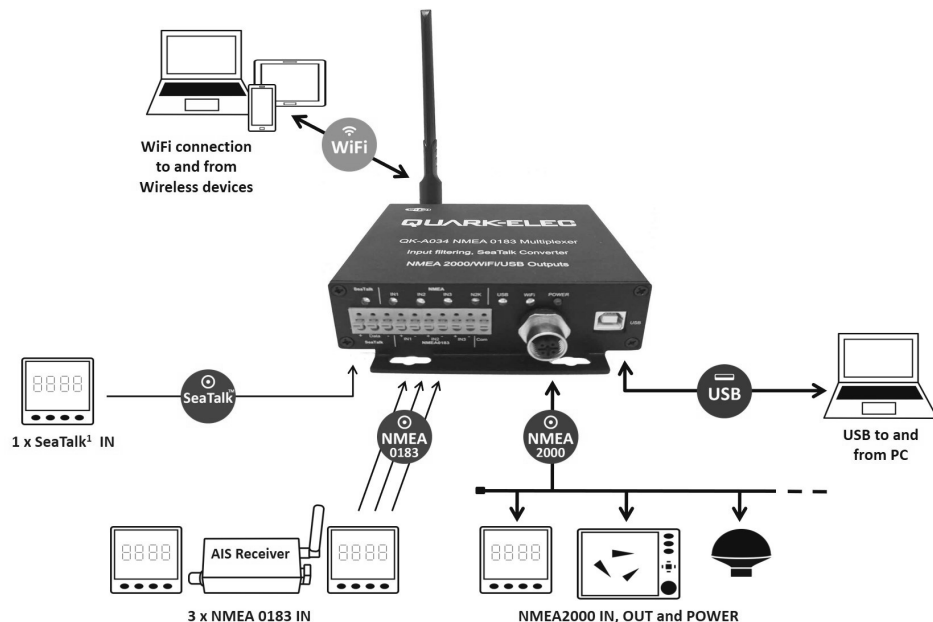
Configuration software is optional and only needed for specific features.

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

- Changing WiFi mode from Ad-hoc to Station mode or Standby
- Adjusting Baud rates from their default settings
- Filtering unwanted or excess data
- Routing Data away for certain output devices
- Full Diagnostics monitoring of 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. This may install automatically to Windows 10 systems (if not, it is on the free CD and at quark-elec.com)

The Config Software, driver and full manual are on the included CD and on www.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 any 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.

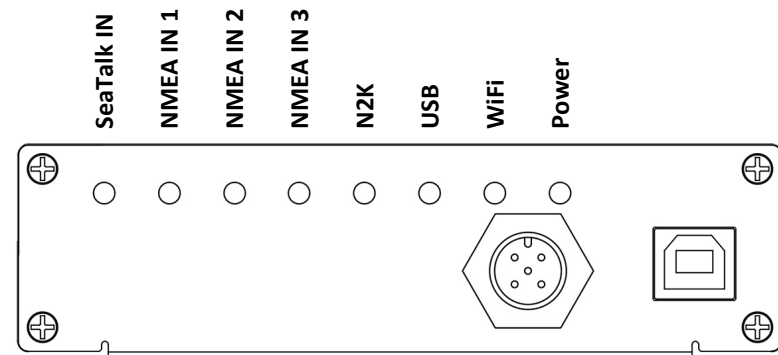


4. Connect the A034 to your un-powered NMEA 2000 backbone

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.



7. Follow your marine software/APP instructions for adding input/output data sources. (Standard setting can be found in the A034 manual. WiFi set up instructions over-leaf.)