

SeaYak

ST1 to NMEA WiFi Bridge
www.yakbitz.com

Once powered up the SeaYak creates a WiFi hotspot. Connect to this with your WiFi Phone/Tablet etc using the default password of 12345678.

Next start your browser and enter 192.168.7.1 into the address bar to access the setup screen shown in Fig. 1.

Operating Mode

The SeaYak can operate as an Access Point which creates a private network to which you connect your WiFi enabled devices such as a smartphones, PCs or tablets. This is the factory default mode.

The SeaYak can also connect to your existing WiFi network so your devices can access the NMEA data broadcast by the SeaYak and also access resources of your network such as the internet or a printer.

N.B. If the Yakker cannot connect to your router pressing the reset button will reboot it in Access Point mode.

Protocol

The SeaYak can send your NMEA data over WiFi using either UDP or TCP protocols as required by your navigation software. UDP is the default factory setting.

Transmit Power

You can adjust the transmit power of the SeaYak according to the range required.

Reset Button

Pressing the reset button reboots the SeaYak in Access Point mode. Press and hold the reset button until the green light starts blinking (approx 5 sec.) to reset the SeaYak to factory default settings.

NMEA DEBUG VIEWER

Click this link to open a page that displays the NMEA sentences that are being transmitted to your connected WiFi devices.

The screenshot shows a mobile browser interface for the SeaYak setup page. The address bar shows '192.168.7.1'. The page has a green background and features the following elements:

- Header:** 'SeaYak by YAKBITZ ST1 to WiFi Bridge'. Below this is the instruction: 'Enter new connection details and hit Submit WiFi'.
- Mode Selection:** Three radio buttons are present:
 - Create Access Point
 - Connect to Router/AP
 - UDP Mode
- Fields for 'Create Access Point':**
 - SSID: SeaYak
 - PWD: 12345678 (with a note '8~16')
- Fields for 'Connect to Router/AP':**
 - SSID: YourNetwork
 - PWD: YourPassword (with a note '0~16')
- Fields for 'UDP Mode':**
 - UDP Port: 2000
- Fields for 'TCP Mode':**
 - TCP Port: 23
- Transmit Power:** A dropdown menu is set to 'HIGH'.
- Submit:** A large white button with the text 'Submit'.
- Footer:** A blue link labeled 'NMEA DEBUG VIEWER'.

Fig. 1

NMEA OUTPUT

These are the NMEA sentences that have created by converting the incoming ST1 data. These sentences will be available to any software running on your connected WiFi devices.

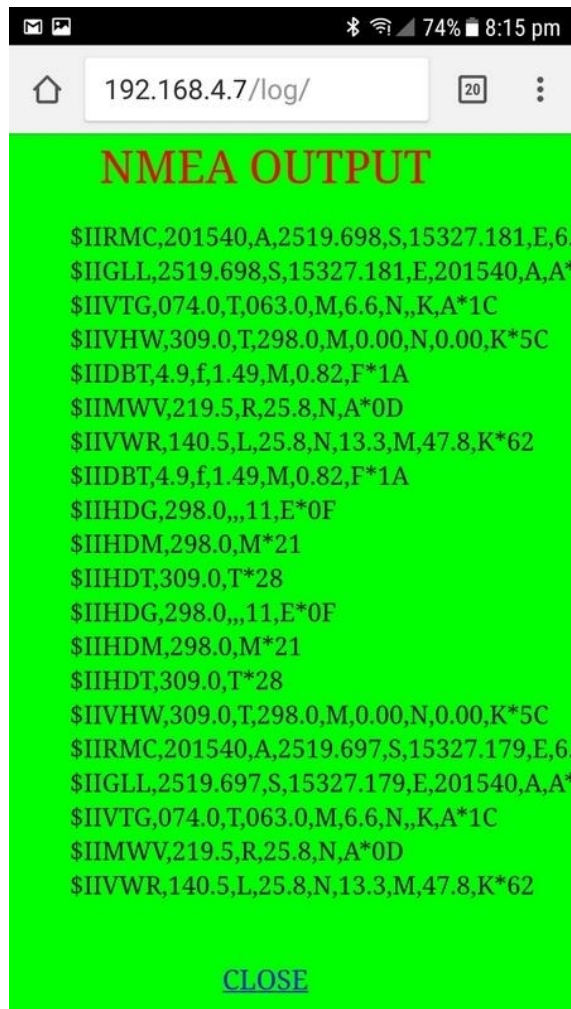


Fig. 1