

HOW TO SEND NMEA DATA THROUGH KM-ROUTER

Please refer to the WIFI connection as shown below:

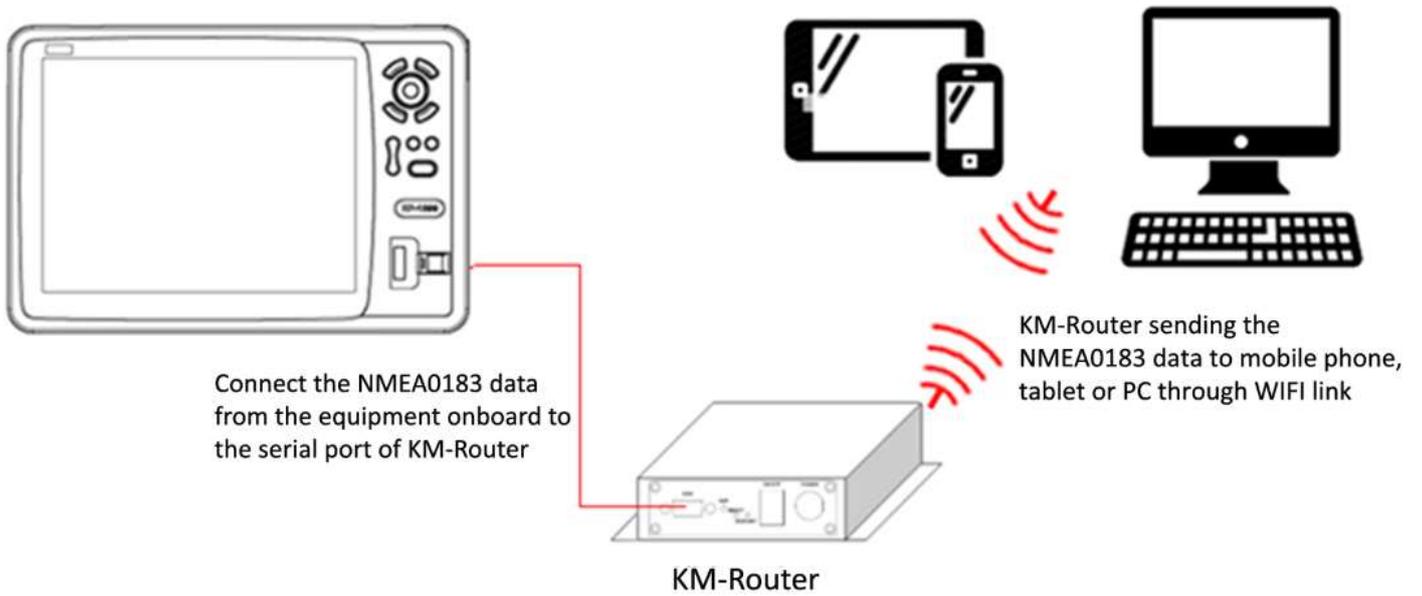


Fig.1

1) Connect the NMEA data RS232 (or any serial data) to the serial port of the KM-Router



Fig.2

2) KM-Router Settings

2.1) Connect the power and switch ON the KM-Router. (refer to the KM-Router quick manual)

2.2) Connect your device (PC, mobile or tablet) to the WIFI network of the KM-Router (Please refer to Fig.3)

2.3) Open the internet browser and type in 223.168.1.253 to access the configuration page (or refer to the KM-router quick manual), refer to Fig.4

Note :

- Default login ID: admin
- Default login password: admin

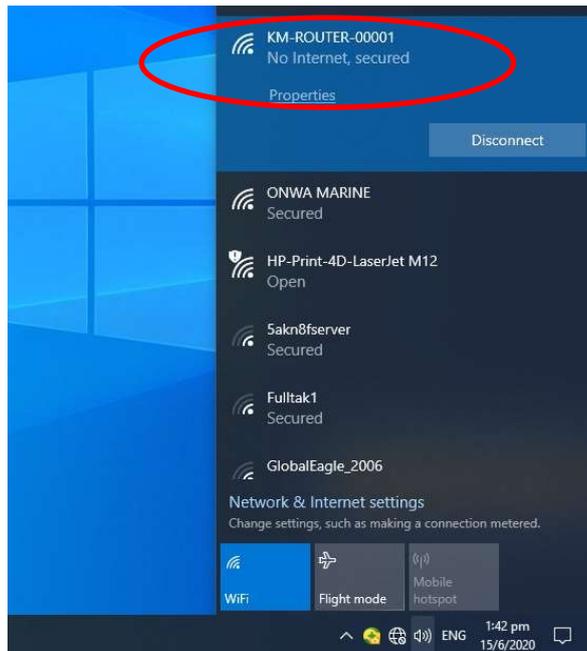


Fig.3

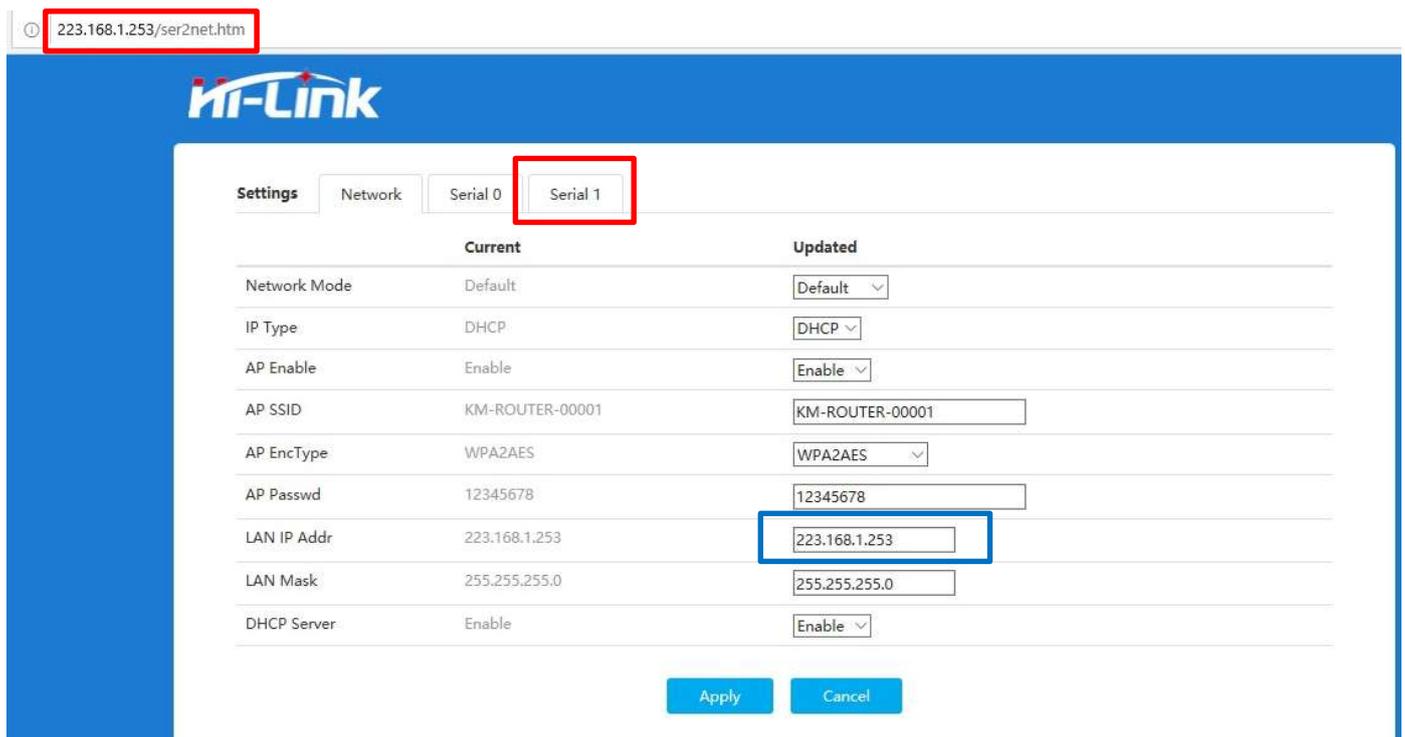


Fig.4

2.4) Click on the “Serial 1” Tab and the page below appears (Fig.5)

| | Current | Updated |
|-------------------------|------------|------------|
| Baudrate | 38400 | 38400 |
| Data Width | 8 | 8 |
| Parity | NONE | NONE |
| Stop Bit | 1 | 1 |
| Flow Control | Disable | Disable |
| Socket Protocol Type | Tcp Server | Tcp Server |
| Locale Port | 8081 | 8081 |
| Packet Framing Lenth | 200 | 200 |
| Packet Framing Timeout | 50 | 50 |
| Packet Framing Interval | 10 | 10 |
| TCP Timeout | 0 | 0 |
| Reconnect Interval | 200 | 200 |
| TCP Keep Alive | 1 | 1 |
| TCP Max Connect | 100 | 100 |

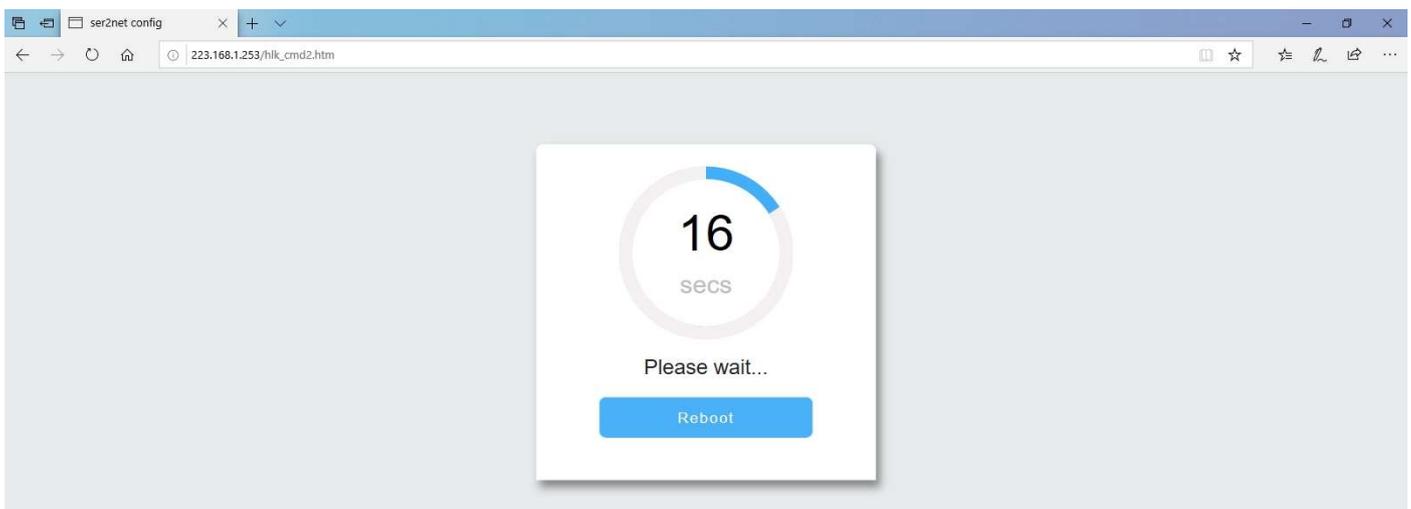
Apply Cancel

Fig.5

2.5) Enter the baudrate of the NMEA data (or any serial data) connected to the KM-Router.

Note: It is recommended to leave other settings as default.

2.6) Click [Apply] to save settings.



2.7) After reboot, check the settings. The Current settings should be the same as the Updated settings as shown below (Fig.6):

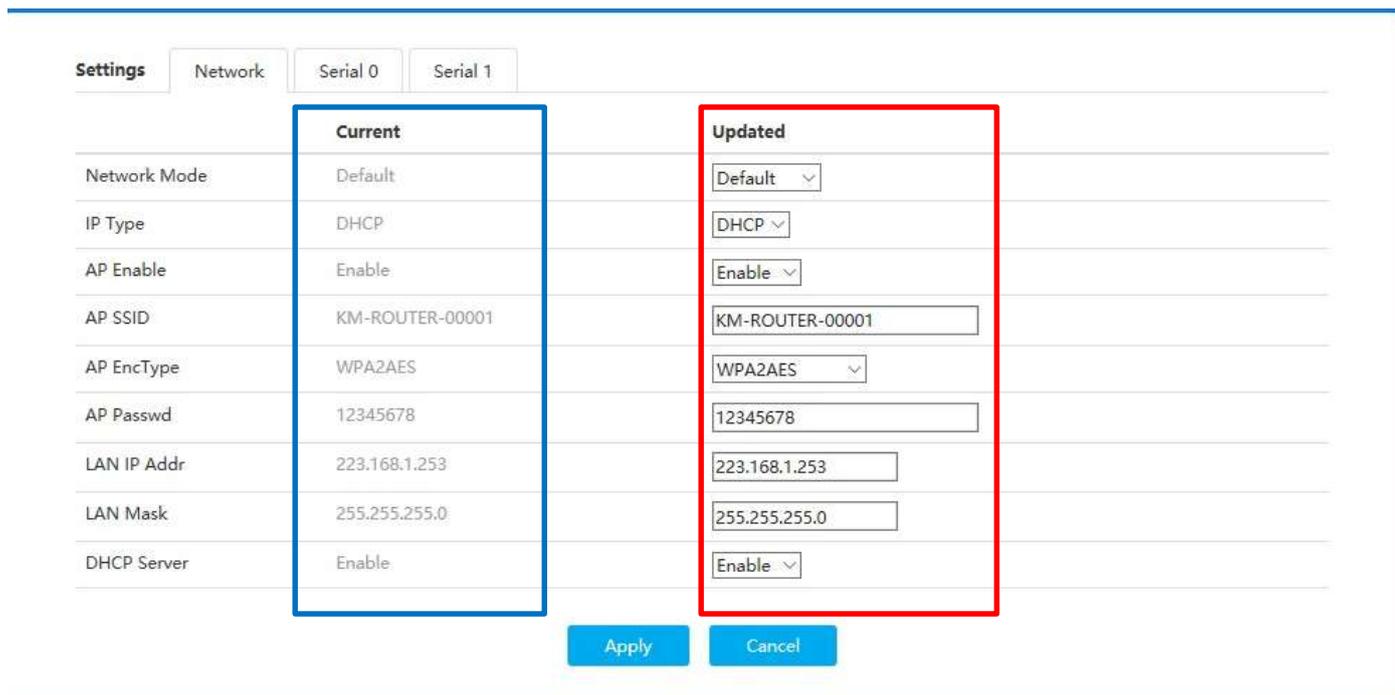


Fig.6

3) Example of transferring the AIS NMEA data from the **ONWA AIS plotter KP-1299A** to a PC through the KM-router WIFI

3.1) Connect KP-1299A AIS output to the serial port of KM-router. (refer to Fig.2)

3.2) Download and Install OPENCNP to a PC , <https://opencpn.org/OpenCPN/info/downloads.html>

3.3) Connect the PC to the WIFI network of the KM-router. (Refer to Fig.3)

3.4) Run OPENCNP and follow the steps as shown in Fig 7.

Note: Fill the settings in the blue box (step 4) according to the settings of the KM-router in the blue boxes as in Fig. 4 and Fig. 5

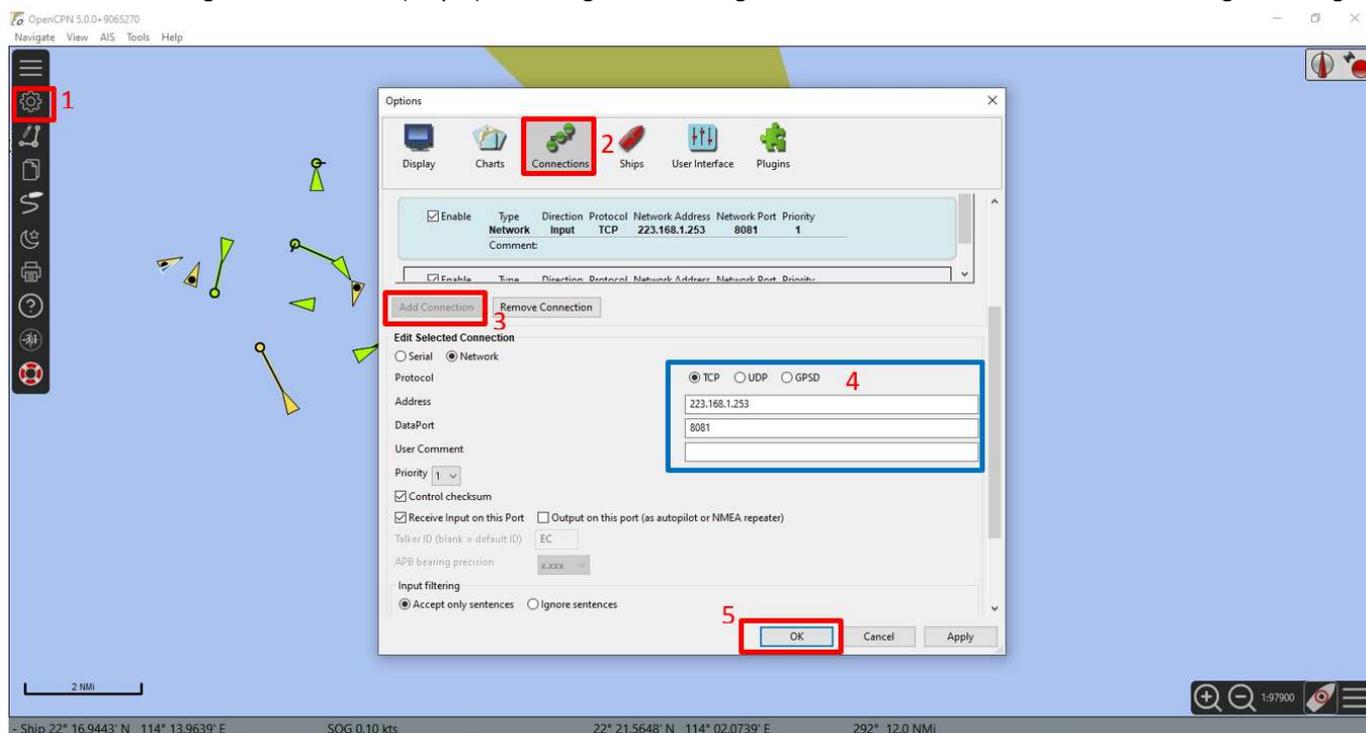


Fig.7

3.5) OPENCNP now shows the AIS and GPS data from KP-1299A.

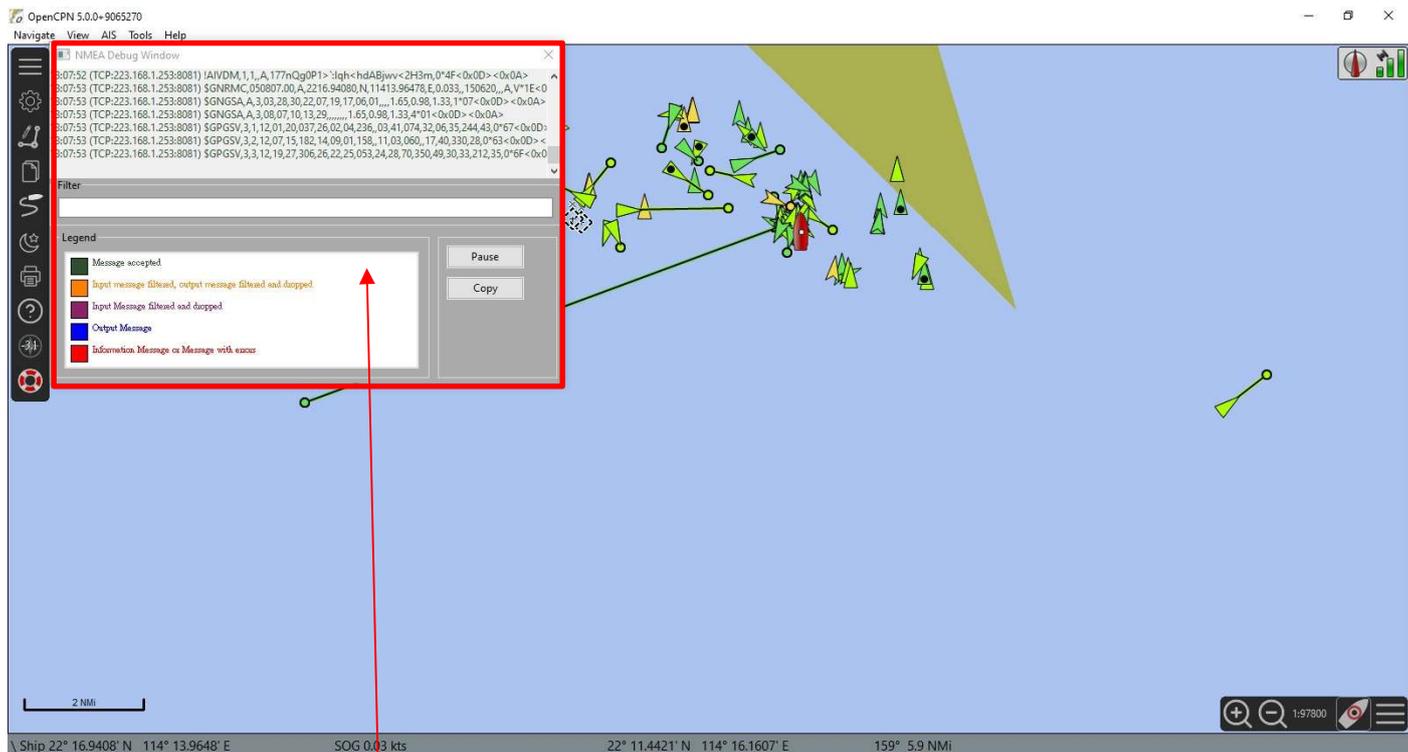


Fig.8

Note: To show the “NMEA debug window”, Follow the steps as shown in Fig.9

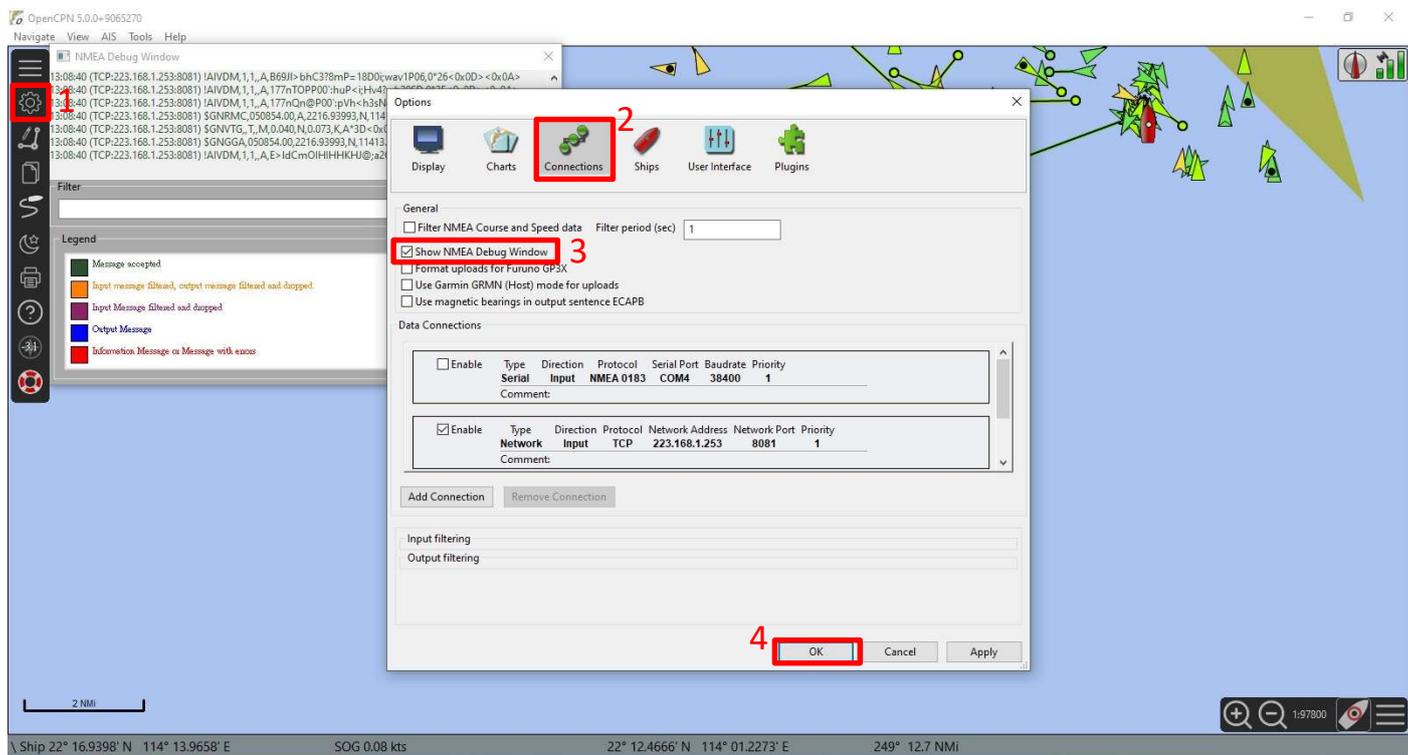


Fig.9

4. Example of transferring the AIS NMEA data from the **ONWA AIS plotter KP-1299A** to a **Mobile device** through KM-router WIFI

4.1) Connect KP-1299A AIS output to the serial port of KM-router. (refer to Fig.2)

4.2) Download and Install OPENCNP APP



Fig.10

4.3) Connect the Mobile device to the WIFI network of the KM-router. (Refer to Fig.3)

4.4) Press setup Icon. (refer to Fig.11)



Fig. 11

4.5) Choose "Connections" and Press "Add" (refer to Fig.12)

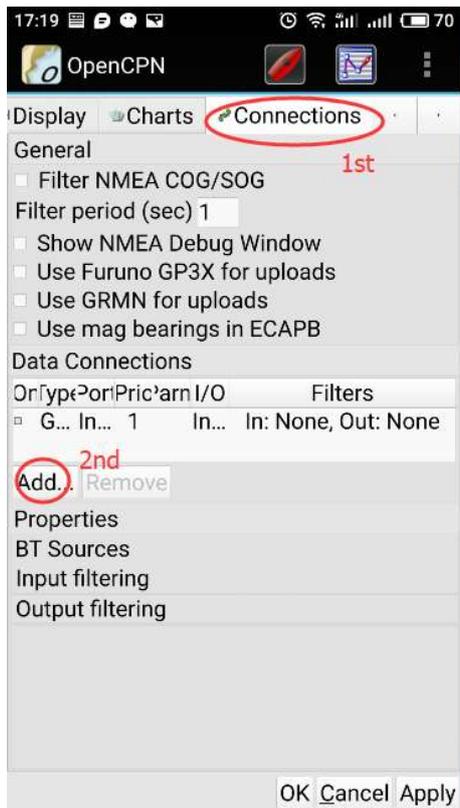


Fig.12

4.6) Follow the steps in Fig.13 and enter:

Address: 223.168.1.253

DataPort: 8081

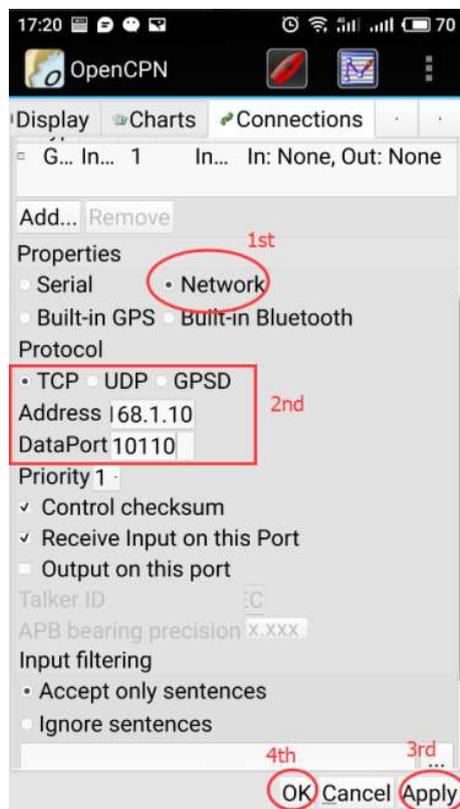


Fig.13

OPENCPN now shows the received NMEA data through the WIFI network

