RUSOKU

Application Note. OpenCPN

Starting your TouCAN Marine Converter using the TwoCan Plugin

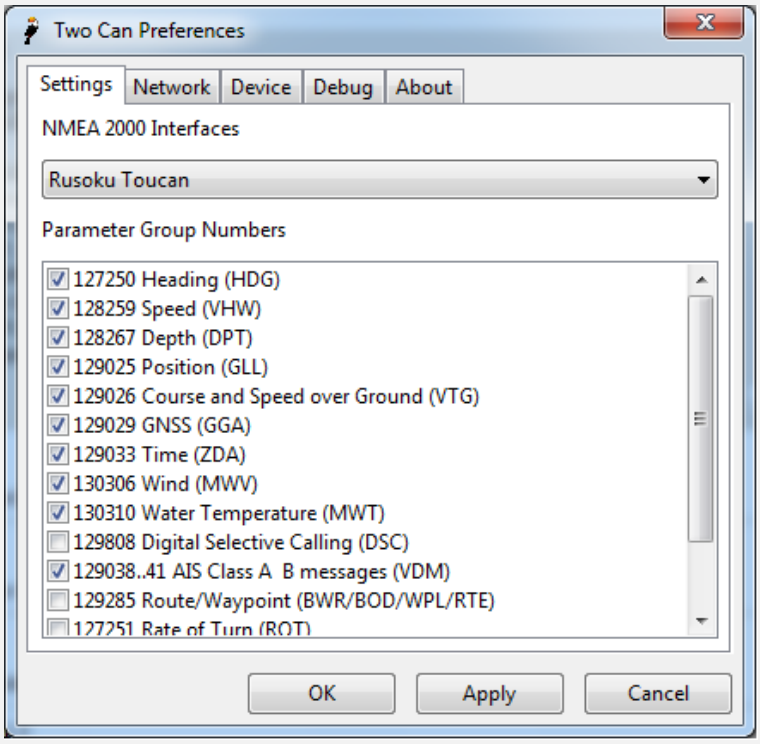
You are able to run your TouCAN Marine converter on OpenCPN by using a TwoCan Plugin, which is free of charge and easily accessible via Github platform.

The following guide will walk you through the simple installations steps on both Windows & Linux operational systems.

About TwoCan plugin:

TwoCan - An OpenCPN Plugin is dedicated for integrating OpenCPN with NMEA2000® networks. It enables some NMEA2000® data to be directly integrated with OpenCPN by converting some NMEA2000® messages to NMEA 183 sentences and inserting them into the OpenCPN data stream.

The aim of the TwoCan plugin is to allow OpenCPN to integrate with modern NMEA2000® networks and use the data directly from those sensors without relying on additional gateways or converters. Navigation data such as position, speed, depth, wind and time can be incorporated into OpenCPN without the need for feeding legacy NMEA 183 data via serial communications or TCP/IP.



Installation Steps for Windows

1. Download the the Twocan Plugin and Twocan Plugin Driver Available on github
2. Connect the TouCAN Marine Adapter, check the Windows Device Manager to ensure it has installed correctly. If that is not the case, the WinUSb .inf file can be found in the Rusoku TouCAN Marine download page once you have downloaded the TwoCanPluginDrivers repository from github.
3. Copy the CAN Abstraction Layer (CANAL) Dynamic Link Library canal32.dll from Rusoku download page to your Windows System directory, or to any other directory that is included in your PATH environment variable.
4. Go to github site. Clone the repository and compile on your machine. Copy the resulting toucan.dll to your opencpn plugin directory

Installation Steps for Linux

1. Go to Rusoku github repository. (It is also available from www.rusoku.com website)
2. Download the installable kernel module source file and compile and install for your version of Linux.

3. Use the usual commands to configure the SocketCAN interface.
4. Once you have compiled the Toucan SocketCAN kernel module, it may be loaded using the insmod command and then use the standard SocketCAN commands:
    a. sudo ip link set can0 type can bitrate 250000
    b. sudo ip link set up can0

For more information visit OpenCPN developer wiki & CruisersForum