This document describes the steps to take to attach the MODEM/Router Huawei E3372h-153 to a PocketPORT 2 and a Lorank8(+).

1. The MODEM/Router settings.

Installing

Unpack the MODEM and place the SIM card.

Plug in the MODEM into a free USB port of your PC and wait for the pop-up to install the software on your PC.
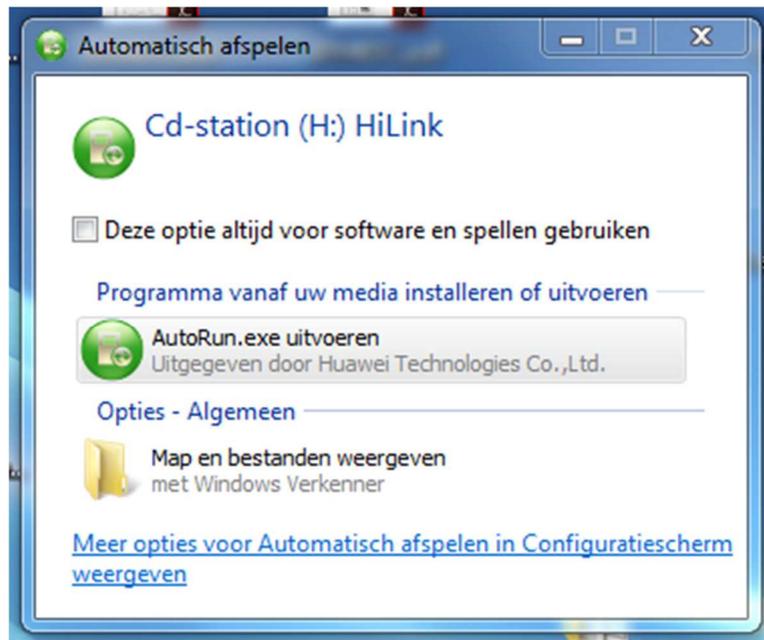

Figure 1: AutoRun Huawei

Run the AutoRun.exe.

After the install the webpage of the modem should automatically open, otherwise browse to http://192.168.8.1/

Goto to the Setting/Instelling tab, selecet Dial-up – Profile Management on the left side.

Check the APN settings.

Figure 2: Settings/Instellingen

- Then select Security – PIN management on the left
- Make sure the PIN code is disabled
- The PIN code is disabled when PIN management shows the option to enable the pin.
- To disabled the pin Set pin operation to Disable.
- Enter the PIN code (Vodafone = 0000).
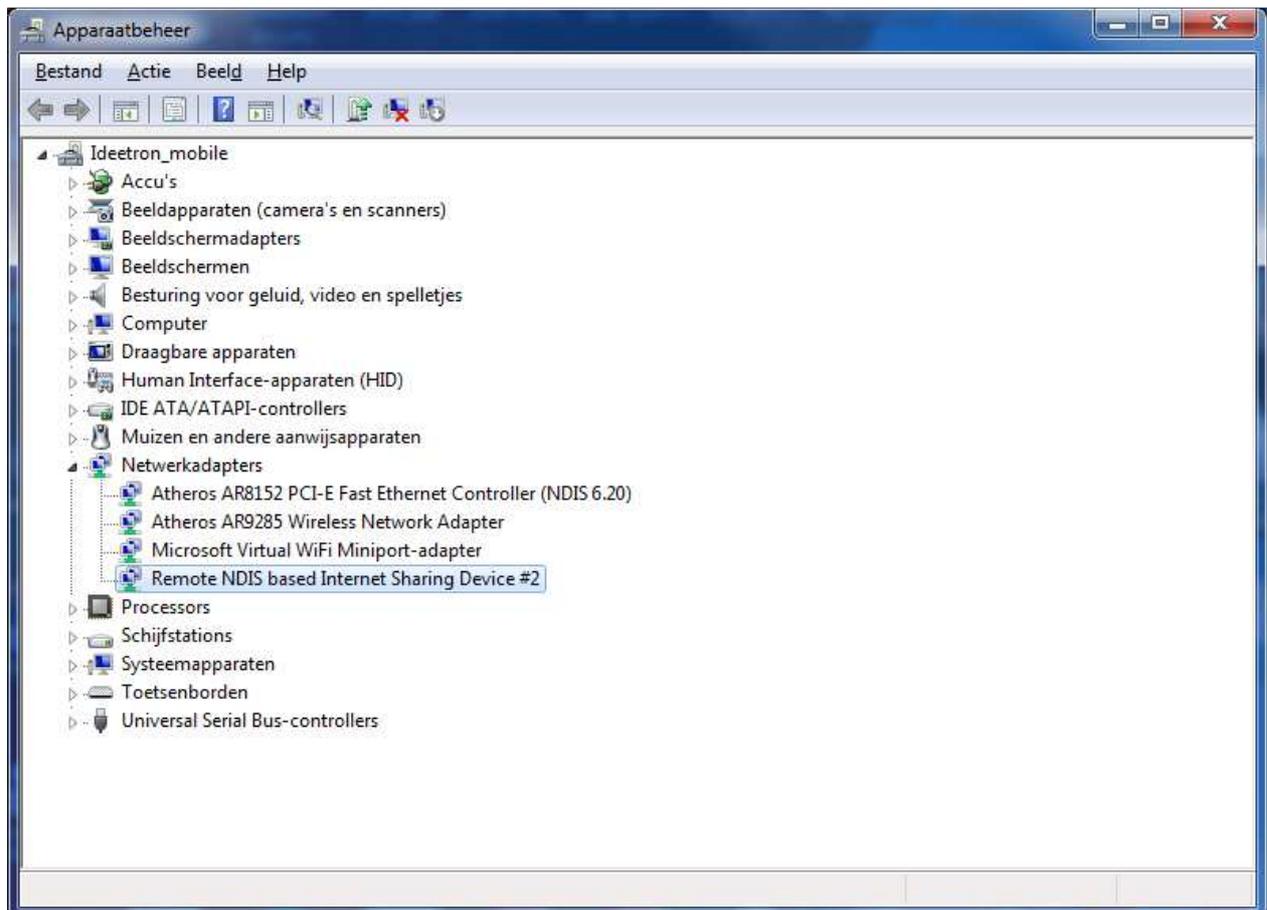- Press the apply button.

Figure 3: PIN management

- The settings for the modem are done.
- Check if you can connect to the Internet using only the 4G modem.
- Close the browser and remove the modem from the USB port.

Trouble shooting

If you're experience trouble with installing or accessing the Huawei modem, it is possible you already have some software installed on your computer that is not compatible with the Huawei modem.

- Put the modem back in the USB port.

Goto: Control Panel – Device management and select Network adapters

Select the Remote NDIS and with the right mouse button open the dialog.

Select: Remove

After successfully removing the device, remove the software.

Make sure the Huawei modem is removed from the USB port.

To delete this goto: Control Panel – Programs and Features.

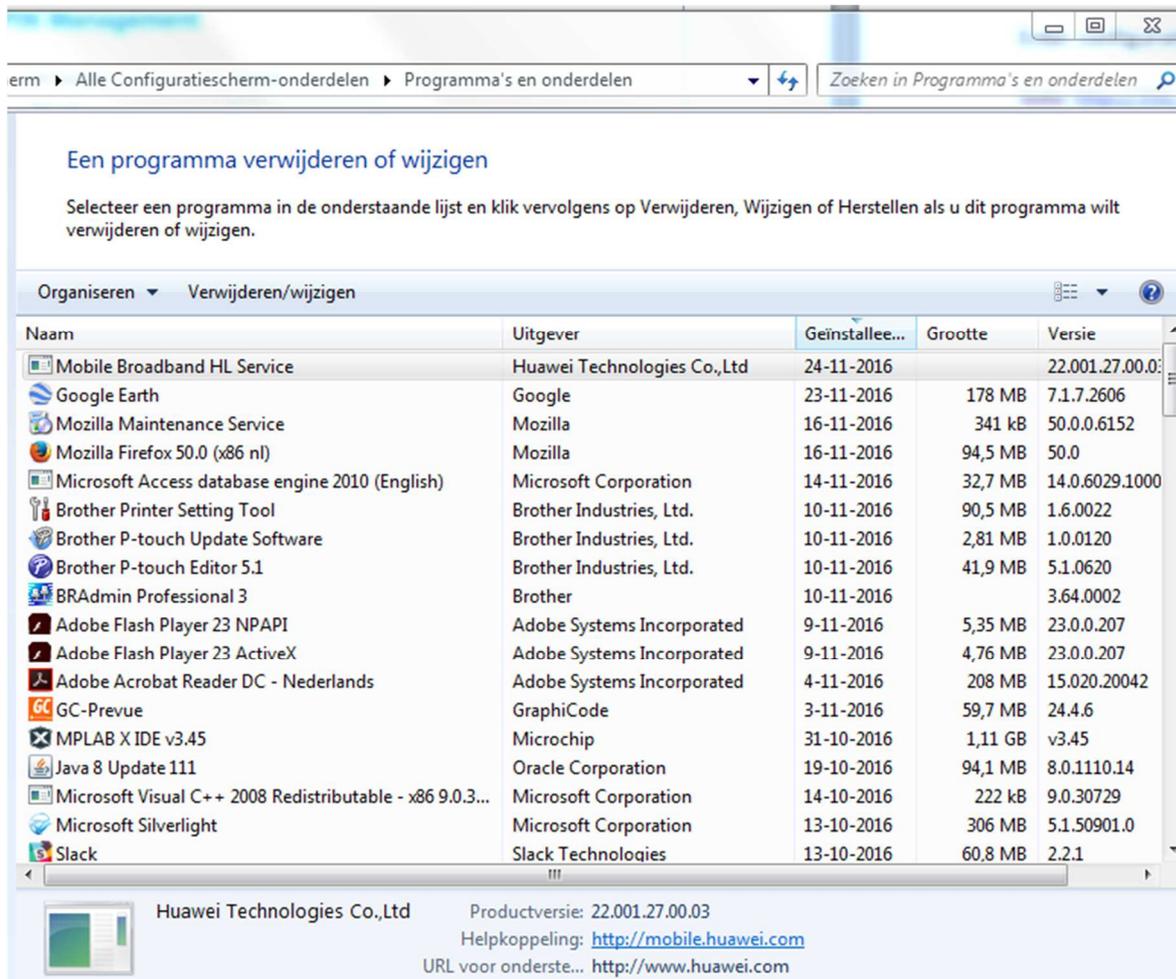Then look for "Mobile Broadband HL Service" and uninstall this program.

Figure 4: Programs and Features screen

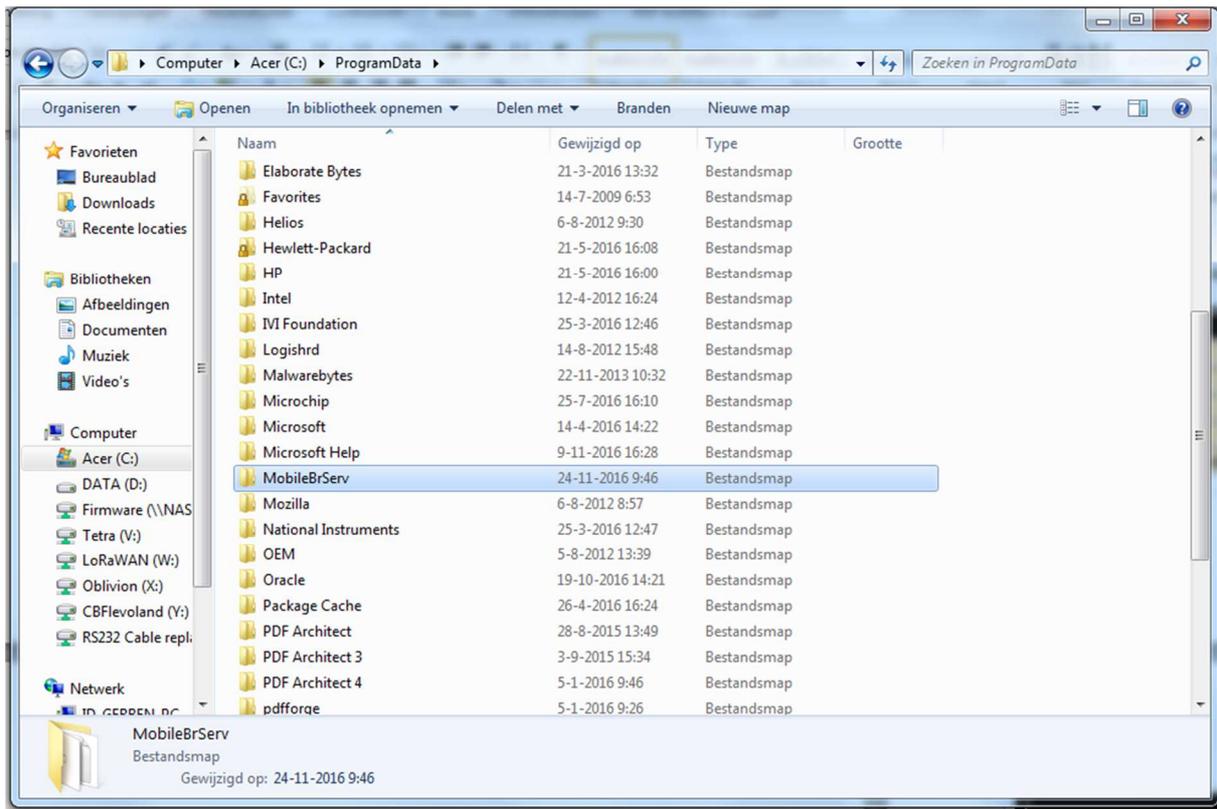Then use the windows explorer to goto the following location: C:\ProgramData.

Figure 5: MobileBrServ folder

Delete the folder: MobileBrServ.

Then connect the Huawei modem to an USB port and continue as described under Installing.

2. PocketPORT 2 settings

Unbox the PP2, connect to the Ethernet port of your laptop and power the unit.

Firmware update

Make sure the PP2 is updated to the latest firmware.

Device Status	
PocketPORT Model	PP-002
Serial #	001B39113069
Firmware Version	v2.2.65 (10/17/15)
External IP address	
USB Modem Signal Quality	0% Graph

Figure 6: Firmware version PP2

The firmware can be downloaded from:
https://www.proxicast.com/support/PocketPORT_2_Firmware.htm

Download the .bin file on a location to your computer.

Enter configuration mode by pressing the reset button for 2 seconds until the LED is solid red.

Goto http://192.168.1.1:8080/

At the bottom of the Configuration Screen, click the "Update Firmware" link.
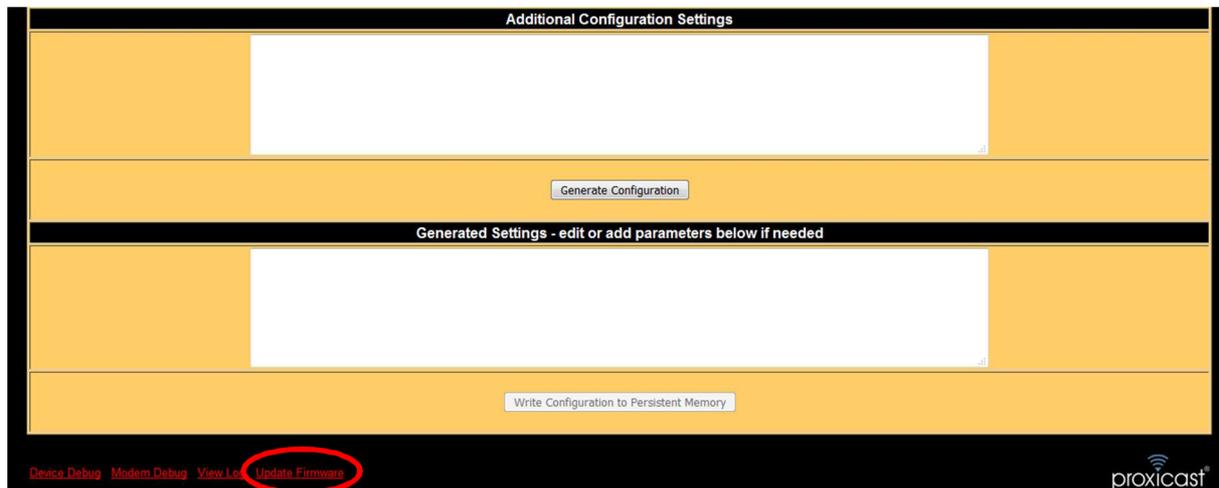

Figure 7: Update firmware

Use the Browse button to locate the new firmware file that you downloaded above. Then click Upload.

If the upload is successful, click the Begin Flashing button.

After several seconds, you should see a confirmation page indicating that the router is rebooting.

Wait approximately 1 minute and then go back to the Configuration Screen and confirm that the new firmware version is running.

- If the popup asks for login and password, it's 'admin' and '1234' for psw.

Settings for Huawei modem

Press and hold the Reset button for 10 seconds until the LED flashes red and blue alternatively. This will default the settings. The PP2 resets after a few seconds and flashes slowly red.

- Press and hold the Reset button again for 2 seconds until the LED is solid Red.
- Open a new Internet browser and enter http://192.168.1.1:8080/

In the setup of the PP2 change the following settings:

- Connection mode: NAT Router Mode
- Attempt Autoconfig: No
- USB Modem Type: CDC Ethernet

USB Modem Settings		
Attempt Autoconfig	No ▼	Detected: Unknown modem
USB Modem Type	CDC ETHERNET ▼	Select the type of USB modem connected to the PocketPORT
USB Modem Port	ttyUSB0 ▼	Select the TTY port of USB modem connected to the PocketPORT
APN		Enter your assigned APN (GSM/HSPA/LTE only)
APN Number	1 ▼	Select the APN context # to use (GSM/HSPA/LTE only)
Username		Enter your Username (if required)
Password		Enter your Password (if required)
SIM / R-UIM PIN		Enter your SIM PIN (if required)

Figure 8: PocketPORT2 settings

- Scroll down and press 'Generate Configuration'.
- Press 'Write Configuration to Persistent Memory'.

The PP2 will now reset to the new settings. The PP2 is now configured.

- Power down the PP2 and close the browser.

TESTING

Place the Huawei modem in the USB port of the PP2 and power up the PP2.

- Observe the LED's on the modem and on the PP2.

The LED on the modem should light up solid cyan and the LED on the PP2 should blink fast blue.

- Check if you can connect to the Internet using only the PP2 and 4G modem.

3. Configuring the system

Configuring the complete system is now very easy. Every part, both MODEM and PP2 are now configured right.

The last thing to do is to add all the components and power up the units.

- Place the MODEM into USB port of the PP2
- Connect the PP2 to the Lorank8.
- Power both the Lorank8 and the PP2 by powering the power supply(s).

Power up the PP2 first and wait at least 30 seconds before powering the Lorank8.

The system should now boot and connection can be established.

Test the system f.i. with a LoRaWAN keyfob.

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