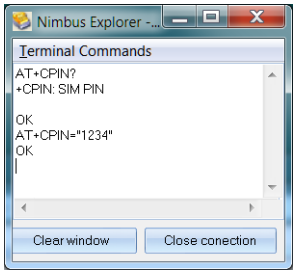
Remove PIN-code



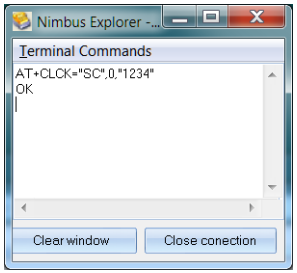
Check the SIM status and login using

AT+CPIN?

AT+CPIN="1234"

Exchange *1234* with the PIN. If you have failed some times and the SIM has been locked you need to use the PUK to set a PIN first. Ex change to PIN *1111* using the PUK *12345678*

AT+CPIN="12345678","1111"



Remove the PIN using

AT+CLCK="SC",0,"1234"

Refill a SIM using Nimbus 3

Use the terminal as above.

If the refill instruction is ex **110*12345678901234#* (and off-hook) it will correspond to the following sequence in the terminal:

*AT+CUSD=1," *110*12345678901234#"*

Enter the command in *Notepad* and do a copy paste using *Ctrl-C / Ctrl-V*.

Some times the modem ends up in command-mode after refilling and will echo a '>'. If that is the case, just press *Ctrl-Z* or restart the GSM-modem.

Getting started with your Teltonika TRB-142 GSM-modem

SIM

The modem is delivered without SIM. It has however been tested using a production SIM. The size is Mini-SIM.

Ensure the SIM is activated (if needed) and always remove any PIN from the SIM (see later on)

Are there any problems with GSM-modems it usually depends of the SIM-card.

To mount the SIM the front plate needs to be removed. There is a 2.5 mm hex key provided. Please ensure there are no metal shavings in the enclosure before the front plate is rassembled.

LED's and signal strength

The GSM-modem is actually an IoT unit which has been reconfigured to work as a normal GSM-modem.

The reconfiguration unfortenately cause the LED's not to work as supposed (2G, 3G, 4G and signal strength) – they will always flash or be lit no matter of the signal strength and choosen network.

This does not mean anything is wrong and the signal strength may be read using the built-in terminal in Nimbus, see later on.

Settings -> Receiver Type

Select *SMS\GSM modem\Teltonika\Teltonika TRB-142* as receiver type. If that device does not exist, please select *SMS\Comlink\Comlink iModem 3G*.

Leave the PIN-code field empty.

The SMSC number is always preset in all SIM and this field should always be empty.

Other info

Enure the supply plug snaps in properly. If the DIN-clip is to be used it is mounted on one short end using the screws.

If the computer lacks serial port

The modem is usually delivered also with a USB/serial converter (Deltaco UC-232C9).

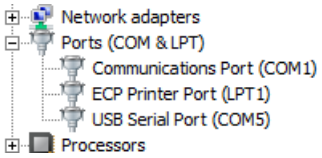
It has been tested using *Windows XP / 2003 / 7 / 8.1 / 10, Windows server 2008 / 2012 / 2016 / 2019.* It should only be used if the computer does not have any serial port.

The driver is usually found automatically. If not it could be downloaded from here:

http://www.ftdichip.com/Drivers/VCP.htm

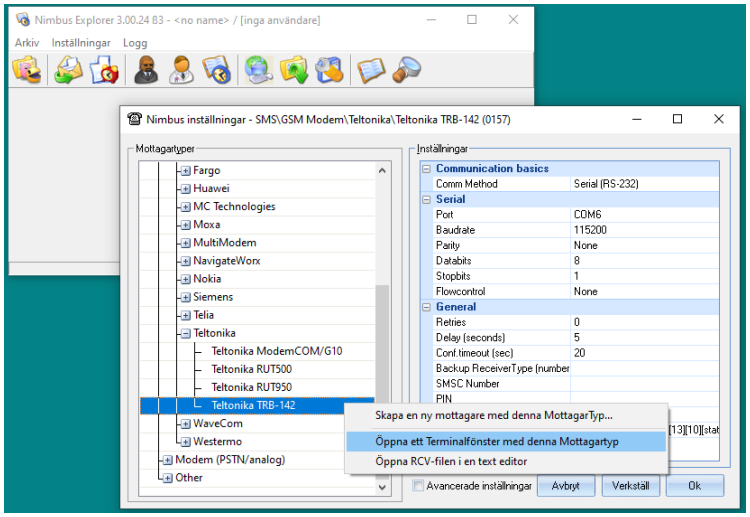
Have a look in the *Control Panel -> System -> Device manager* where an *USB Serial Port* should appear.

This is the COM-port number that should be entered in Nimbus settings (in the example it is COM5). Be aware that the COM-port number could be changed if the converted is moved to another USB-port.



Testing the GSM-modem using the built-in terminal

Nimbus 3 have an built-in terminal editor, it may be used for both serial- and TCP/IP communication.

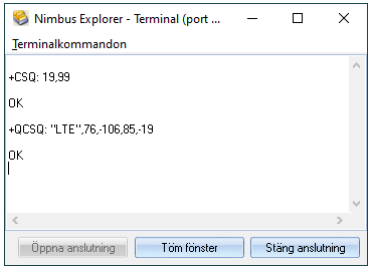


Right-click on the GSM-modem and select *Open Terminal Window using this Receiver Type.*

Nimbus Alarm Server does not need to be started.

Check the signal strength

Select *Terminal Commands – GSM-modem – Signal strength*.



In the above example the signal strength is to the left of the comma, which is 19 (equvalent to -75 dBm).

< 10 = bad, 10..14 = ok, 15..19 = good, > 19 = excellent

The other command (*Terminal Commands – GSM-modem – Signal quality Quectel/Teltonika*) shows what network type is used, in this case LTE (4G).