

# **Using the PTCarPhone 5 as a modem**

Application Note 1502

Revision: 1.1

January 2017

## TABLE OF CONTENTS

<b>0 History</b> .....	<b>4</b>
0.1 Related Documents .....	4
<b>1 Introduction</b> .....	<b>5</b>
<b>2 Requirements</b> .....	<b>5</b>
<b>3 Setup of a dial-up connection in Windows®</b> .....	<b>6</b>
3.1 Driver installation on a PC .....	6
3.2 Preparation of the USB interface of the PTCarPhone.....	6
3.3 Connecting the USB cable .....	6
3.4 Entering the initialization command at the device manager .....	7
3.5 Setup of the dial-up connection .....	9
<b>4 Disconnect and reconnect a dial-up connection</b> .....	<b>13</b>
<b>5 Addendum: Connection data</b> .....	<b>14</b>

## LIST OF FIGURES

Figure 1: Key nomenclature on the PTCarPhone .....	6
Figure 2: The Control Panel of Windows® 7.....	7
Figure 3: Device Manager .....	8
Figure 4: Command line for the initialization command.....	8
Figure 5: Control Panel .....	9
Figure 6: Network and Sharing Center .....	9
Figure 7: Choose a connection option.....	10
Figure 8: Connect to the internet 1 .....	10
Figure 9: Connect to the internet 2 .....	11
Figure 10: Connect to the internet 3.....	11
Figure 11: Connect to the internet 4.....	12
Figure 12: Connect to the internet 5.....	12
Figure 13: Connection symbol for a working internet connection .....	13
Figure 14: Connection symbol for a disconnected internet connection .....	13
Figure 15: Context menu for a working internet connection. ....	13
Figure 16: Display of a working Dial-up Connection with Disconnect button .....	13
Figure 17: Display of a disconnected Dial-up Connection with Connect button.....	13

## LIST OF TABLES

Table1: History .....	4
Table2: Related Documents.....	4
Table 3: APN and Dial-up phone number .....	14

## 0 History

Date	Revision	Author	Comments
August 2015	1.0	CS	First Release
January 2017	1.1	CS	Updates

Table1: History

## 0.1 Related Documents

Nr.	Name	Filename	Remarks
1	PTCarPhone 5 Series User Guide		For download from <a href="http://www.ptcarphone.de/en/downloads">http://www.ptcarphone.de/en/downloads</a>

Table2: Related Documents

## 1 Introduction

This document describes the setup of a dial-up connection with a PTCarPhone 5 system on a Windows® 7 PC (Also tested on Windows® 10, Version 1607, Build 14393.693).

**Please note:**

The mentioned driver package contains components that are not supported. Only features and elements described in this documentation are supported.

## 2 Requirements

- A PTCarPhone 5 Series device with UMTS module
- USB cable: type A plug – mini type B plug
- Driver package for Windows® (The driver package can be obtained from pei tel)

## 3 Setup of a dial-up connection in Windows®

### 3.1 Driver installation on a PC

Follow the instruction of the installation wizard to install the driver package on your PC.

### 3.2 Preparation of the USB interface of the PTCarPhone

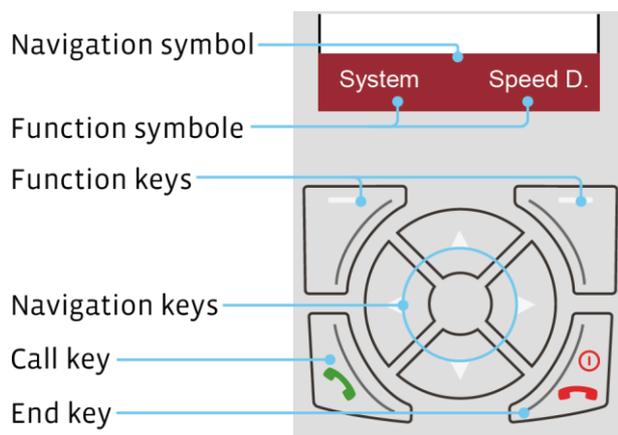


Figure 1: Key nomenclature on the PTCarPhone

Follow these steps in the PTCarPhone menu:

1. Press the **System** key.
2. Select **Configuration** and press the function key **OK**.
3. Type in the device code. The device code at delivery is set to: 0000.
4. Select **USB interface** and press the function key **OK**.
5. Select **Modem** and press the function key **OK**.
6. To return to the main menu, press the **end key**.

### 3.3 Connecting the USB cable

Plug the USB cable into the respective sockets on the electronics box (TPU) and at the PC. On the PC's screen, the message "Found new hardware" appears and device drivers are getting installed automatically.

### 3.4 Entering the initialization command at the device manager

**Please note:**

Initialization commands for a selection of mobile phone providers are already programmed into the PTCarPhone. Just, if the modem setup won't work, the command needs to be added at this point.

1. At the PC's start menu select **Start > Control Panel > Device Manager**.

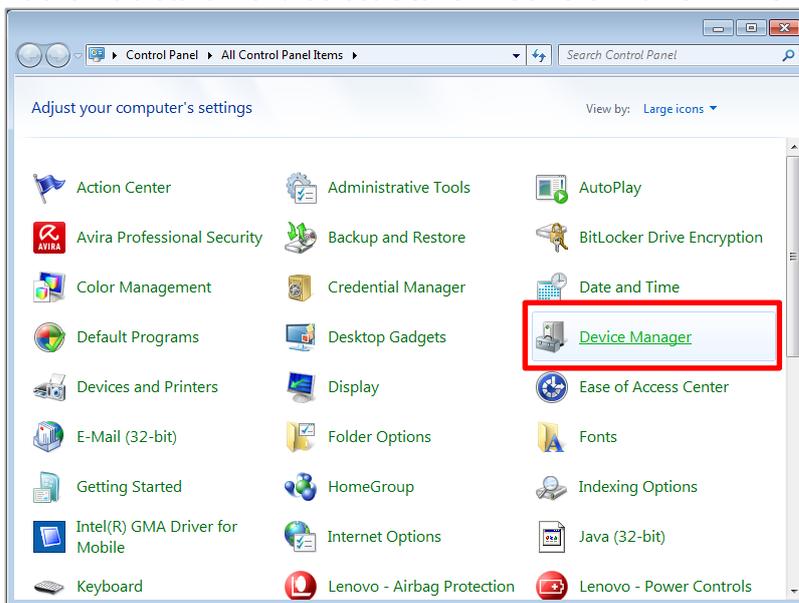


Figure 2: The Control Panel of Windows® 7

2. Check in the Modem section, if "Telit Mobile Highspeed Modem" is listed.

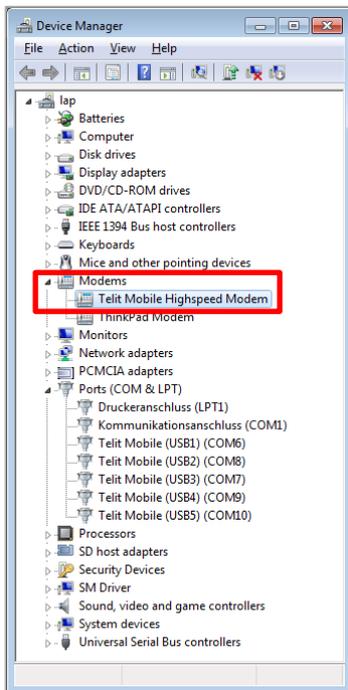


Figure 3: Device Manager

3. Right-click the "Telit Mobile Highspeed Modem", and select **Properties**. Add the **Initialization Command** of your mobile phone provider on the **Advanced tab** close the window by pressing **OK**.

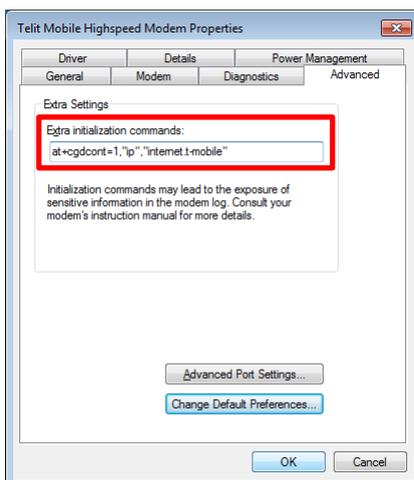


Figure 4: Command line for the initialization command

Please find more on "initialization commands" in the Addendum.

### 3.5 Setup of the dial-up connection

1. At the PC's start menu select **Start > Control Panel > Device Manager** and open the **Network and Sharing Center**.

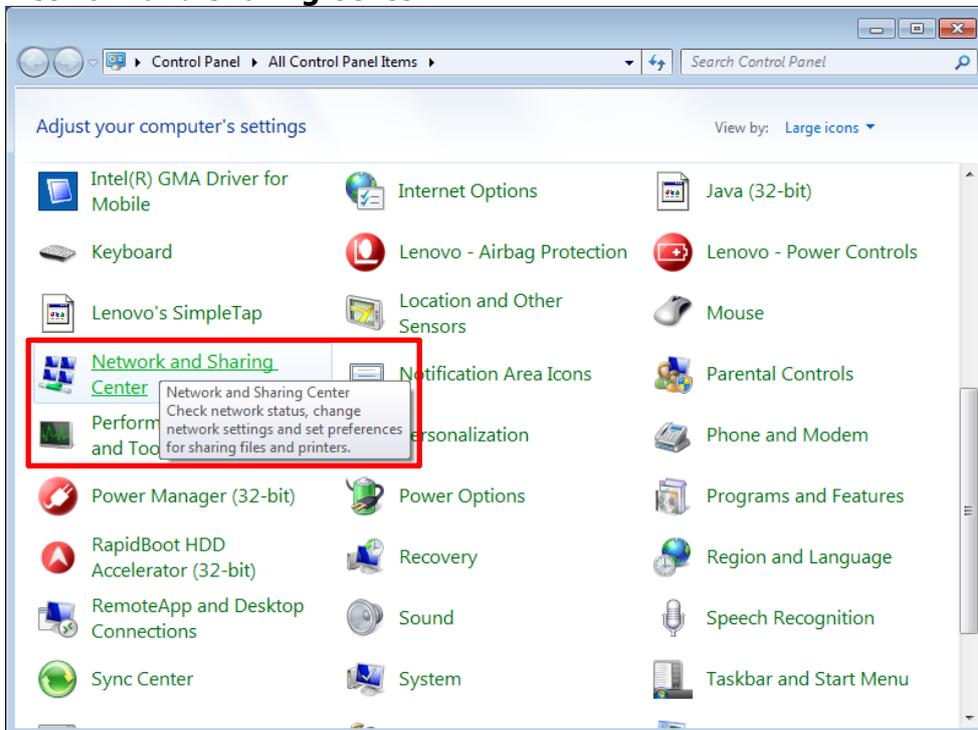


Figure 5: Control Panel

2. Select **Set up a new connection or network**.

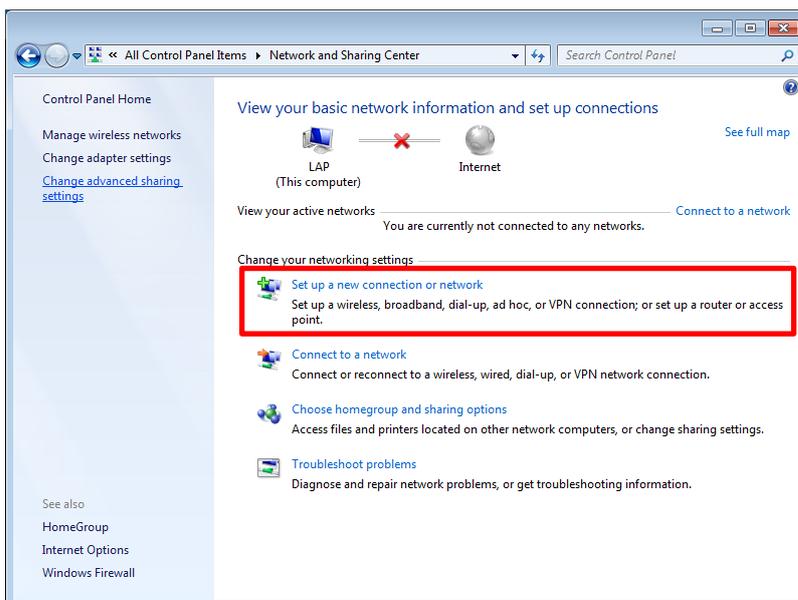


Figure 6: Network and Sharing Center

3. Select "Connect to the internet" and press **Next**.

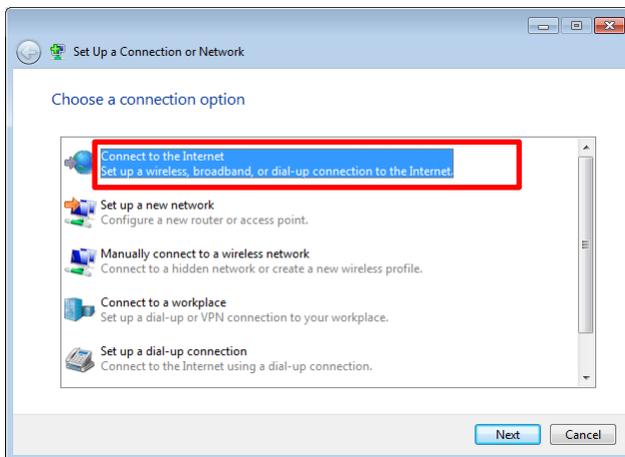


Figure 7: Choose a connection option

4. Select "No, create a new connection" and press **Next**.

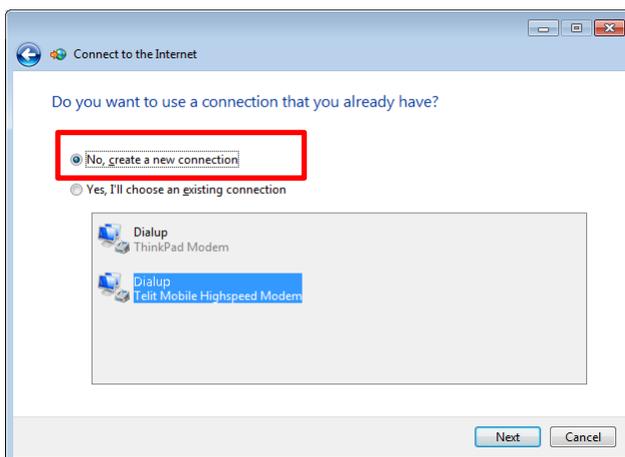


Figure 8: Connect to the internet 1

## 5. Select Dial-up.

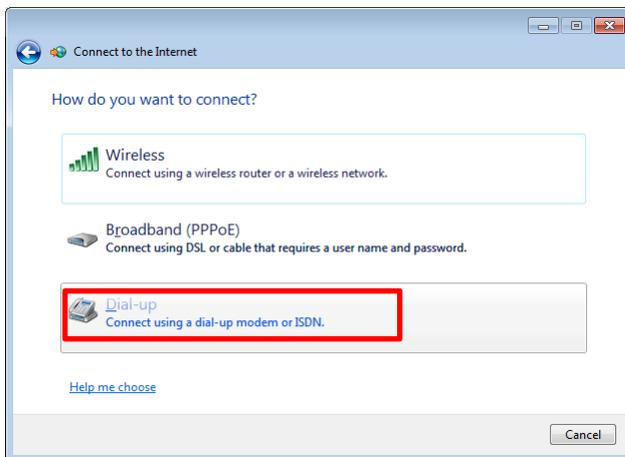


Figure 9: Connect to the internet 2

## 6. Select Telit Mobile Highspeed Modem

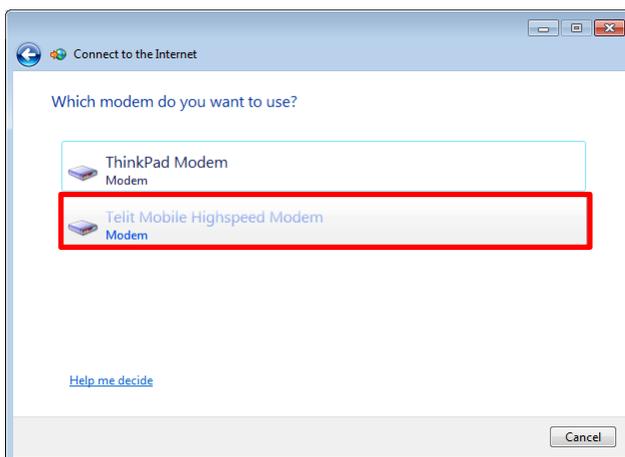


Figure 10: Connect to the internet 3

7. Enter the **Dial-up phone number \*99#** (the dial-up phone number might be different for other mobile phone providers) and press **Connect**.

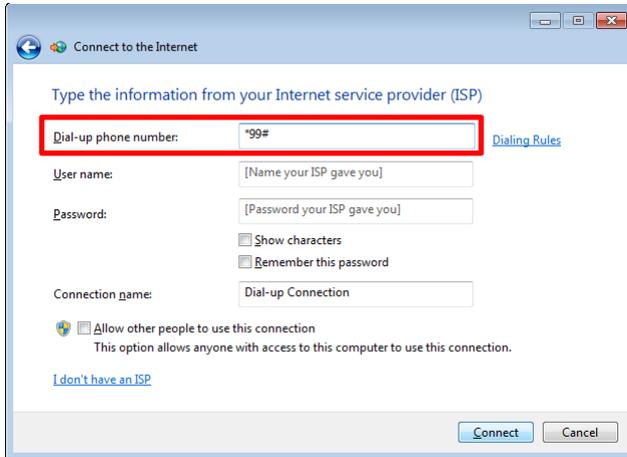


Figure 11: Connect to the internet 4

8. To test the connection, select "Browse the internet now" (recommended), and close the Network and Sharing Center.



Figure 12: Connect to the internet 5

**Please note:** You can use all functions of the PTCarPhone during the dial-up session.

## 4 Disconnect and reconnect a dial-up connection

A working dial-up connection can be disconnected and reconnected using the connection symbols on the taskbar:



Figure 13:  
Connection symbol for a working internet connection



Figure 14:  
Connection symbol for a disconnected internet connection

Click the connection symbol to open a context menu.

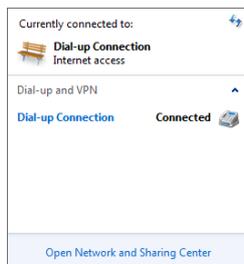


Figure 15: Context menu for a working internet connection.

Click on **Dial-up Connection** to make the buttons **Disconnected** and **Connect** appear.



Figure 16: Display of a working Dial-up Connection with Disconnect button

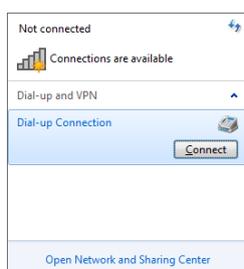


Figure 17: Display of a disconnected Dial-up Connection with Connect button

## 5 Addendum: Connection data

Initialization command (general): **at+cgdcont=1,"IP","APN"**

APN and Dial-up phone numbers are listed in this table:

Mobile Phone Provider	APN	Dial-up Phone Number
Telekom Deutschland	internet.telekom	*99#
Vodafone Deutschland	web.vodafone.de	*99#
E-Plus Deutschland	internet.eplus.de	*99#
o2 Germany	internet	*99#

*Table 3: APN and Dial-up phone number*

Please check the internet, if your mobile phone provider is missing in this table.

**END OF DOCUMENT**