NOKIA
6210

SUPPORT GUIDE FOR

SEND, RECEIVE AND READ SMS WITH TERMINAL PROGRAM AND NOKIA 6210

NOKIA

Contents

1. INTRODUCTION

- Computers use AT commands to communicate with modems. Most communications applications, however, have a user-friendly interface that hides these AT commands from the user. You issue AT commands via your communications application. When the software in the Nokia product has received an AT command, it responds with a message that is displayed on the screen of the device you are using.

- Note that the "AT" or "at" prefix must be included at the beginning of each command line.

- This Quick Guide shows you how to send, receive and read an SMS with a Terminal Program and the Nokia 6210**.**

- Windows HyperTerminal is used in this example

2. INSTRUCTIONS

How to create a new connection in HyperTerminal

1. Open HyperTerminal (Start | Programs | Accessories | HyperTerminal).

2. Select *HyperTrm*
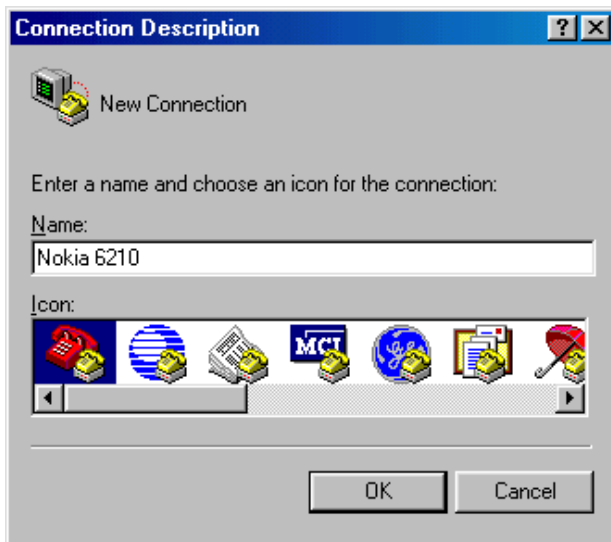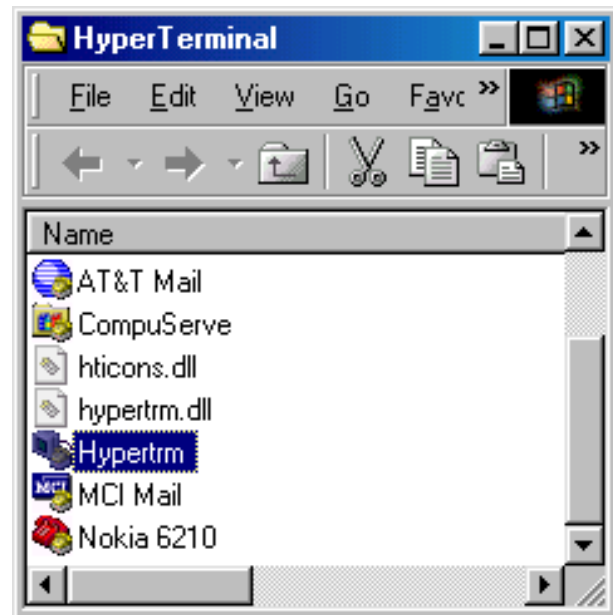
- Enter a name and choose an icon for the connection.
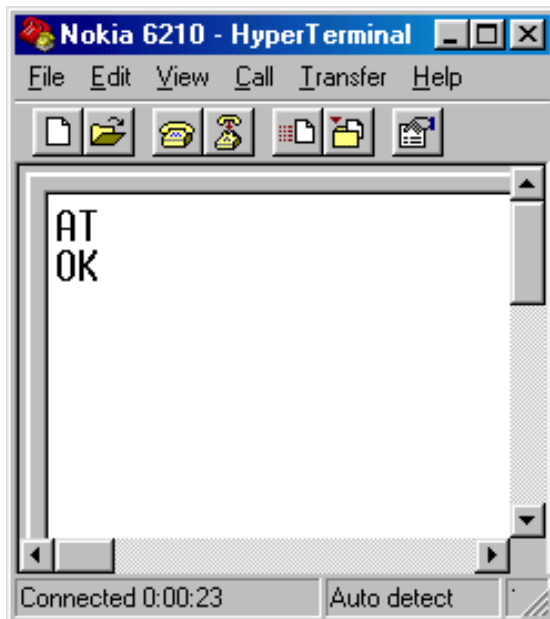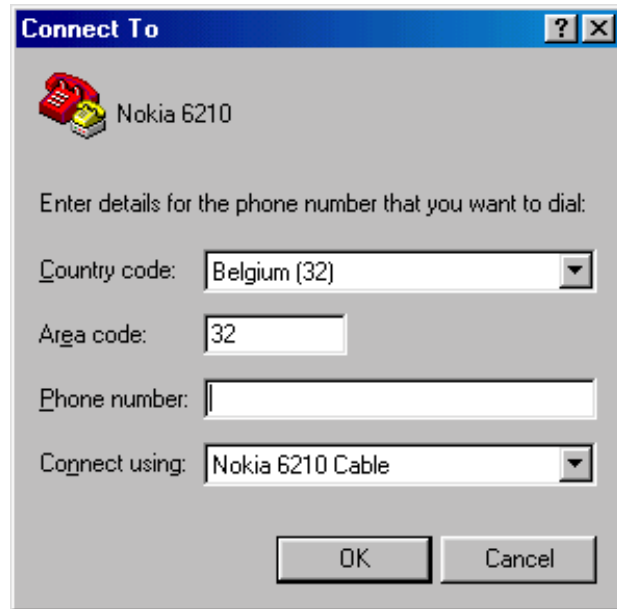
- Check that the Nokia 6210 Cable or the Nokia 6210 Irda connection is selected in the Connect Using field

- You may leave the Phone number field empty. In this example it is not required

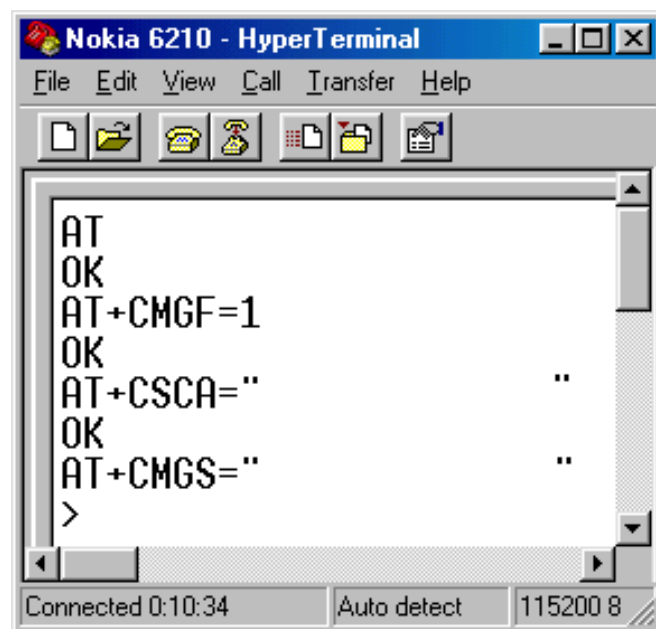- Click OK if there is a number or click Cancel if there is no number

- Now you can enter AT commands in the terminal window.
  You can test the connection to the Nokia 6210 phone by typing "AT" then pressing Enter.

- You should get "OK" as a response

- If you don't get any response, check that there is not any other program running in the background.

- Please check the programs in the taskbar and close them.

Sending an SMS

After you have typed AT and received the OK response, please continue with the steps below.

- Define the message format by typing AT+CMGF=1 (Text mode).

- Set the Message centre number by typing AT+CSCA="XXX" between quotation marks.

- XXX is your network provider's message centre number. You will find the number in the phone's Message settings.

- Enter the recipient's phone number between quotation marks using the AT+CMGS="YYY" command.

- Write the message and when it's finished press the **Ctrl** and **Z** buttons simultaneously, to send the SMS.

- In this real example SMSC and the receiver's numbers have been omitted from the screen shot picture.
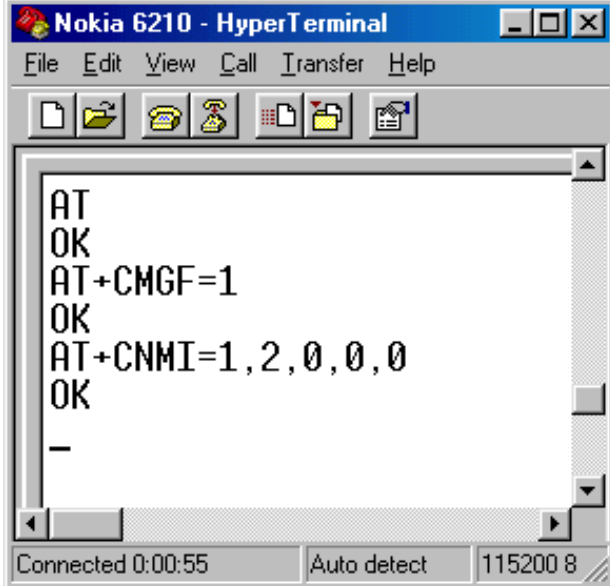
  You cannot type more than 160 characters - otherwise you'll get an error message.

Receiving an SMS

After you have typed AT and received the OK response, please continue with the steps below.

- Define the message format by typing AT+CMGF=1

- Type AT+CNMI=1,2,0,0,0 in order to see all the messages received.

- When you receive a message you will have this kind of view on the Terminal program screen. The date and time is from the Short Message Center. The date format is yy/mm/dd.

- In this real example the sender's number is omitted from the screen shot picture.
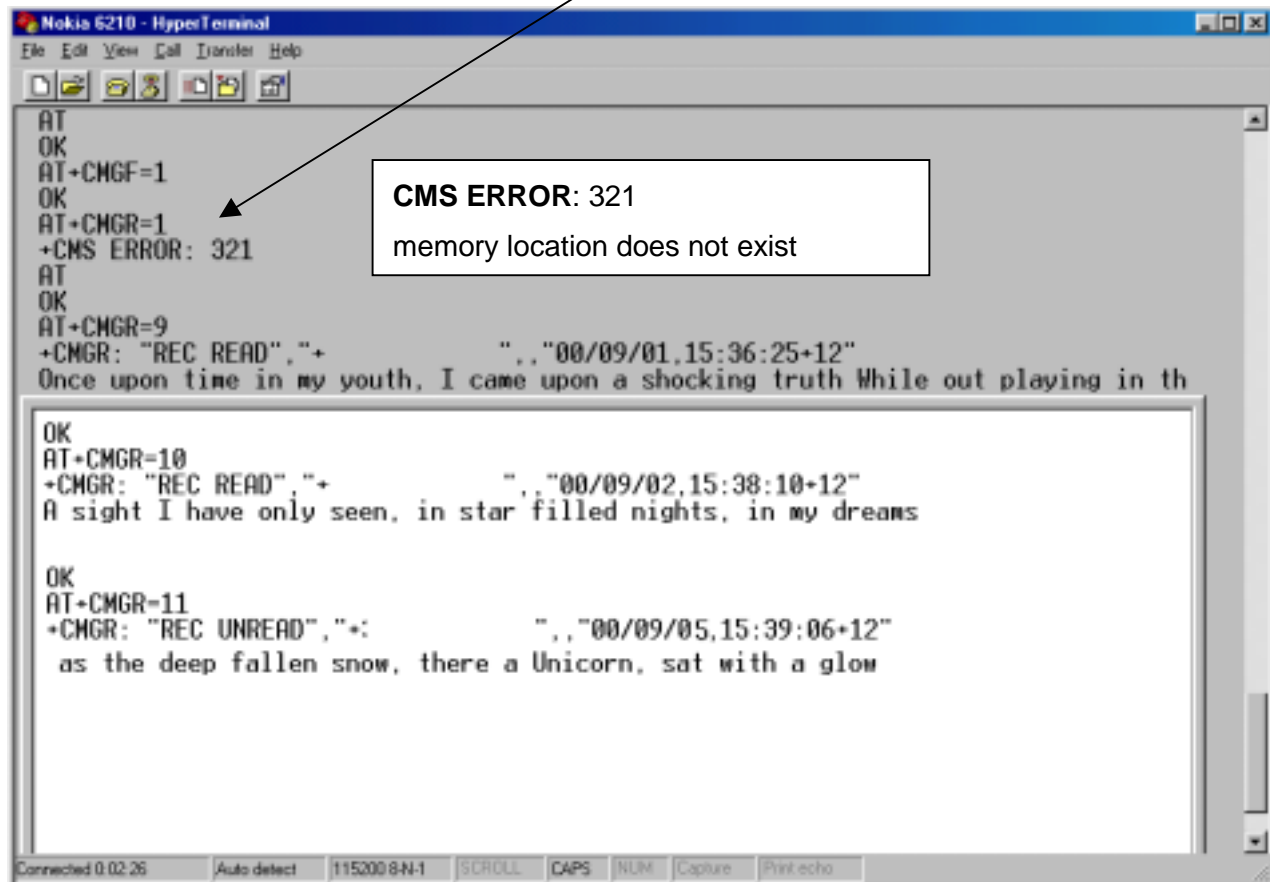
Reading Messages

You have received SMS messages while the Nokia 6210 phone was not connected to the PC. You want to have a hard copy of them or save the messages into the PC's memory.

First please check that the Nokia 6210 Cable or the Nokia 6210 Irda is connected to your computer. Start the HyperTerminal and open the session that you have already saved.
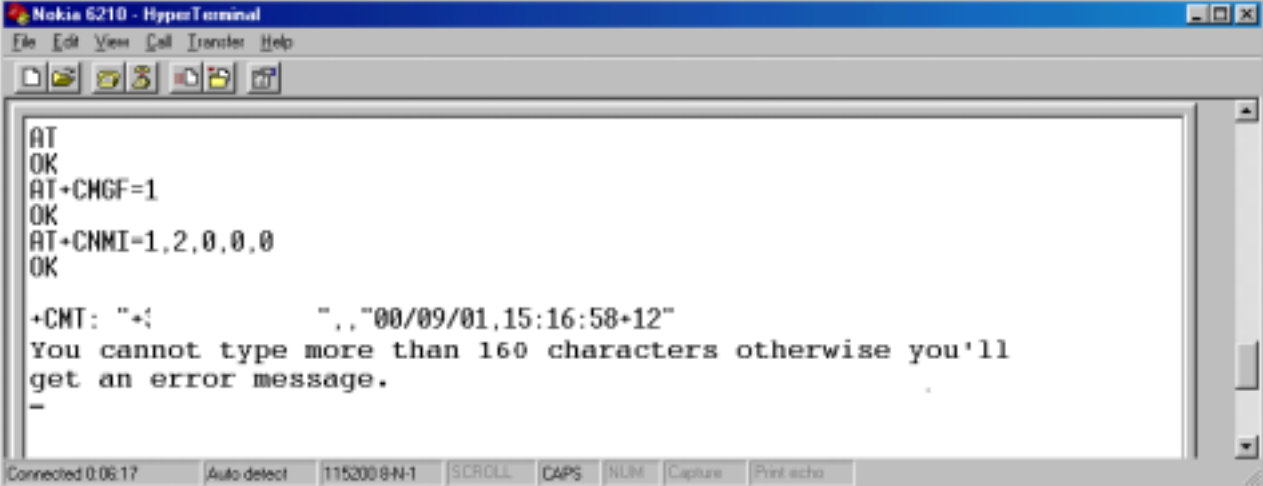
After you have typed AT and received the OK response, please continue with the steps below.

- Define the message format by typing AT+CMGF=1

- Type AT+CMGR=1(a message in the first location) If it is empty type next
   AT+CMGR=2 or
   AT+CMGR=3 until you don't get an **ERROR** message like that in the picture

CMS ERROR: 321

memory location does not exist

- In this real example the sender's number is omitted from the screen shot picture.

Descriptions for the defined values:

"REC UNREAD" = received unread

"REC READ"   = received read

"STO UNSENT" = stored unsent

"STO SENT"   = stored sent

+CMS ERROR Values

The following table indicates which SMS AT commands can return a numeric <err> value.

The kinds of errors that can generate <err> values are listed in numbers. The meanings of the numbers are given under the table.

AT Command	+CMS <err> Value	Kinds of Errors
+CNMI=	300	15
	301	5
	310	2
	320	6

AT Command	+CMS <err> Value	Kinds of Errors
+CMGS=	0-127	9
	128-255	10
	300	15
	301	5
	304	11
	305	12
	310	2
	311	3
	312	1
	316	4
	330	7
	331	16
+CMGR=	300	15
	301	5
	310	2
	311	3
	312	1
	316	4
	320	6
	321	8

+CMS ERROR Values: Kinds of Errors

1   phone security code required to execute the AT command

2   ME does not have a SIM connected to it

3   SIM PIN required to execute the AT command

4   SIM PUK required to execute the AT command

5   SMS interface is reserved by some other application

6   general memory error, e.g. problems in SIM database communication

7   message to be sent to network does not contain SMSC address and SMSC address
       cannot be found from TA or ME

8   memory location does not exist

9   RP layer cause value from network

10   TP layer cause value from network

11   PDU mode is enabled: length of the given PDU is not equivalent to the given
       <length>, or ME/TA detects that PDU is of invalid format

12   text mode is enabled: too long message is tried to be sent/stored, or
       +CSMP does not contain valid SMS-SUBMIT (in case of +CMGS=), or ME/TA detects
       that PDU is of invalid format

13   SMS memory is full

14   <index> given in +CMSS does not contain SMS-SUBMIT or SMS-COMMAND, or
       <index> given in +CMSS contains SMS-COMMAND and <da> is given

15   external ME is not connected to TA; this is not applicable to products that have ME and
       TA in one entity

16   no network service