

# NOKIA 8250



## SUPPORT GUIDE FOR THE NOKIA 8250 WITH AN INFRARED DATA CONNECTION IN WINDOWS 95 / 98

**NOKIA**

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# 1. INTRODUCTION

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The scope of this document is to provide guidelines how to configure Windows 95 or Windows 98 environment with Nokia 8250 so that internal data and fax (Win95 only) features can be used.

- Laptop / Desktop computer supporting Nokia 8250 via IrDA and Nokia 8250 phone are the basic requirements
- Data services (at least outgoing data) and fax (outgoing and incoming) should be activated in order to be able to make datacalls and send/receive faxes
- Descent GSM coverage and also at least half of the battery left in both devices as the data connection's power consumption is usually quite high.

## 2. WINDOWS 95 CONFIGURATION

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In order to use Nokia 8250 data and fax capabilities with Windows 95 IrDA must be installed in PC. To check if your PC has Microsoft IrDA software installed follow steps described below.

### 2.1 CHECKING IRDA SUPPORT IN WINDOWS 95

1. Open *Control Panel* ( *Start* | *Settings* | *Control Panel* )



2. Check if you find *Infrared* icon in there

In case you find the icon double click it and move further to chapter "IrDA settings" otherwise follow instructions in chapter "Installation of MS IrDA support for Windows 95".

### 2.2 INSTALLATION OF MS IRDA SUPPORT FOR WINDOWS 95

1. Before installation check that your computer have IR-port activated from BIOS setup and/or from proprietary control panels like IBM's *ThinkPad Center*. If you are not sure how to do this, please do ask help from local IT-support or consult your PC manuals.



**Note:** Some Toshiba models (PCI-infrared port) require infrared driver for Windows 95 from Toshiba's support page. Please try to locate drivers for your Toshiba laptop from for example

<http://www.toshiba-tro.de>

Install this driver before installing Microsoft IrDA driver.

2. Microsoft provides their IrDA support in a self-extracting file "W95IR.exe" which can be found from Microsoft's web pages.
3. Run the self-extracting file in some directory in your local disk. (E.g. in C:\temp.) The file creates a new directory MSIR20 into root of your local disk. (E.g. C:\MSIR20)
4. Run setup.exe from MSIR20 directory.
5. Configure the ports according to your hardware. Usually physical IR-port is COM2. And application support is usually provided to port COM4. In case COM4 is already occupied in your PC by another application support is provided to next available free COM port.



**Note:** If you don't have many free COM ports and you want to use infrared device in 16-bit application (application support provided must be COM1 – COM4) install physical infrared port to COM5 – COM9 and application support to COM4.

6. Start the MS IrDA stack by double clicking the *Infrared* icon in *Control Panel*.
7. From *Options* tab of MS IrDA application disable Plug and Play (see Figure 1).



**Figure 1. Windows 95 Infrared Monitor (Ms IrDA 2.0)**

8. Now you should have working IrDA connection. You can make a shortcut from Irmon.exe to your desktop or put in your startup directory.



**Warning:** Only for a Nokia 6100 series phone and Nokia Data Suite users:

Please note: If you are using the IR connection, the IrDA and Nokia Data Suite cannot be run at the same time! So, if you are using a Nokia 6100 series phone for infrared transmission and running Nokia Data Suite under Windows 95, and you install MS IrDA 2.0, then you will have to disable the infrared communication in the Infrared Monitor every time you wish to use the Nokia Data Suite. NOTE! This also applies if you are using: 1. Nokia Data Suite simultaneously with any version of the Nokia PC Suite or any other application that requires the MS IrDA 2.0 update, or 2. a Nokia 6100 series phone for infrared transmission.

## 2.3 IRDA SETTINGS

From the *Options* tab of the MS IrDA application disable Plug and Play (see Figure 1).



**Note:** IrDA stack provides a *Virtual Infrared Port* for your applications. In case your application wants directly connect to the port use the port where application support is provided (COM4 in figure1). You see also this information in *Options* tab of MS IrDA application.



**Note:** Some applications (like Windows 95 HyperTerminal) have some unsuitable connection parameters as default when connecting directly to the COM port with application support. Therefore using always Windows 95 modem (TAPI) is recommended.

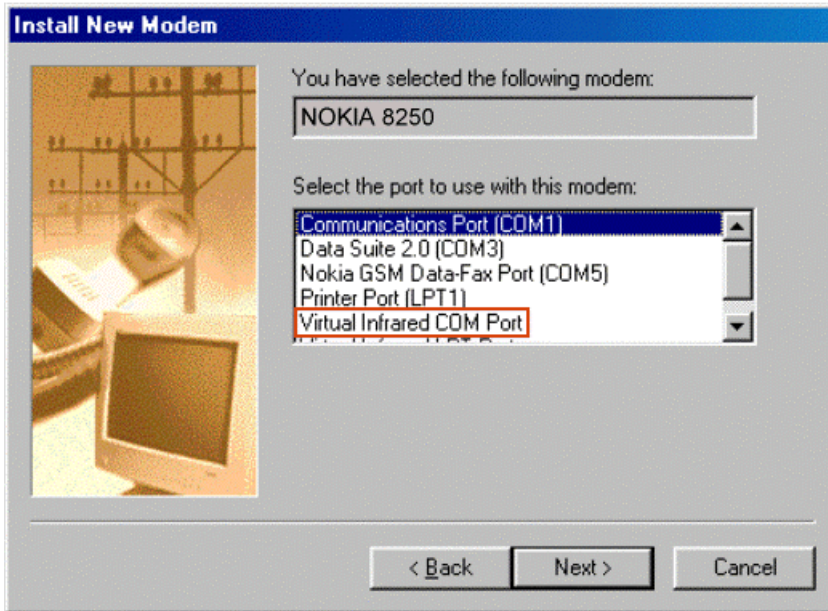
## 2.4 WINDOWS 95 MODEM CONFIGURATION

After proper IrDA support installation and configuration next step is to configure a new modem for Windows 95. If you have already installed PC Suite for Nokia 8250 then there is no need to add a new modem, so you can skip this part. This procedure requires a so called .INF file, which contains information about used modem. You can find that .INF file from <http://www.forum.nokia.com/>.

Setting up a modem in Windows 95 is a straightforward process.

1. Open *Control Panel* ( *Start* | *Settings* | *Control Panel* )
2. Select *Modems*
3. Select *Add*
4. Select *Other* (and go further by selecting *Next* option...)
5. Select *Don't detect* (and go further by selecting *Next* option...)

6. Select "Have disk..." and browse to locate the N8250.inf file.
7. Select *Virtual Infrared Port* (Figure 2) (and go further by selecting *Next* option...)



**Figure 2. Port selection**

8. Finish

After Windows 95 modem is properly installed you can start to use your data and fax applications in Windows 95 environment by selecting Nokia 8250 a modem.

## 2.5 WINDOWS 95 DIAL-UP CONNECTION CONFIGURATION

For remote networking also a dial-up connection must be configured properly.

1. Open *Dial-Up Networking* (*Start | Programs | Accessories | Dial-Up Networking*)
2. Select *Make New Connection*
3. Replace 'My Connection' with appropriate name
4. Select Nokia 8250 (and go further by selecting *Next* option...)
5. Type in the desired Dial-Up number
6. Skip the *Area Code* and *Country Code*
7. *Finish*
8. Click with the right mouse button the newly configured Dial-Up Connection
9. Select *Properties*
10. Empty the 'Use country code and area code' selection
11. Select *Server Types*

12. Usually you need only "Enable software compression" and "TCP/IP" protocol
13. Check also TCP/IP settings from your internet service provider
14. Select OK

## 2.6 USING WINDOWS 95 DIAL-UP CONNECTION

Now you can use connection that you have just made.

1. Open new connection by double clicking it
2. Enter your Username and password
3. Press Connect
4. Activate infrared reception in Nokia 8250 (Press Menu – 9)



**Note:** if you activate infrared before you start dialing Windows may disconnect infrared connection before you get connection.

5. Now you should see active infrared connection in Taskbar and phone start dialing.
6. If you have problem that phone does not dial but give error 629 or 630 try few times again or if that doesn't help open HyperTerminal and give AT&F command. Close HyperTerminal and try to make connection with Dial-up networking, it should work now.

### 3. WINDOWS 98 CONFIGURATION

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Windows 98 do have MS IrDA 3.0 stack included in the delivery packet. When updating Windows 95 with MS IrDA 2.0 support do remember first remove the old drivers by using “Add/Remove Programs” utility from Control Panel.

Windows 98 installation/update software should automatically detect if IR hardware is present and activated in your computer and install the required files for IrDA support. When getting a new PC with pre-installed Windows 98 it should have also IrDA properly configured if IR hardware is present.

Once IrDA support is properly installed into your computer the modem and dial-up networking settings are similar to Windows 95.



**Figure 3. Windows 98 Infrared Monitor (Ms IrDA 3.0)**