

hama[®]

Hama GmbH & Co KG
D-86651 Monheim/Germany
www.hama.com

All listed brands are trademarks of the corresponding companies. Errors and omissions excepted, and subject to technical changes. Our general terms of delivery and payment are applied.

00039749/11.08

hama®

NOTEBOOK

WLAN USB Stick; 54 Mbps



00039749

Contents

1.	Installing the driver and configuration program on Windows 2000/XP	Page 03
2.	The configuration program – introduction and operation on Windows 2000/XP	Page 04
2.1	Quick configuration	Page 05
3.	Installation and configuration under Windows Vista	Page 06
3.1	Operation of the Windows Vista configuration program	Page 06
3.2	Setting up an Ad-hoc network	Page 07
4.	Configuring the operating system and computer (Windows)	Page 08
5.	Uninstalling the driver and configuration program on Windows	Page 09
6.	Installing the driver and configuration program on MAC OS X	Page 09
7.	Configuring the operating system and computer (MAC OS X)	Page 09
8.	The configuration program – introduction and operation on MAC OS X	Page 11
8.1	Quick configuration	Page 11
9.	Support and contact information	Page 12

Package contents:

- 1x** Wireless LAN USB Stick 54 Mbps
- 1x** USB connection cable
- 1x** driver CD-ROM
- 1x** printed operating instructions

Remark concerning the positioning:

The connection quality depends strongly on the place or surroundings where you put up the WLAN device. Please ensure that the device or its antennae are neither covered nor built in. Use the enclosed USB extension cable for this purpose. We advise you against putting it up near metallic objects or other electric or radiant devices. In case of reception fluctuations or connection interruptions we recommend you to move interference sources such as DECT telephones, mobile phones, Bluetooth devices or other WLAN networks out of the way. If this is not possible, it may also be helpful to change the cable.

System requirements:

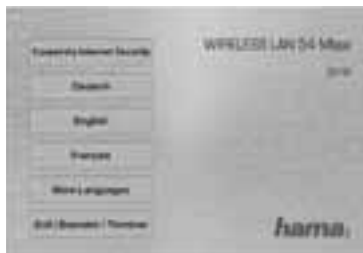
- PC or laptop with free USB port
- Operating system Windows 98SE/ME/2000/XP/XP-x64 Edition, Vista or MAC OS X 10.3.x/10.4.x

Safety instructions:

Do not operate the device in damp or extremely dusty environments. Protect the device from pressure and impact. The device may not be opened or moved during operation.

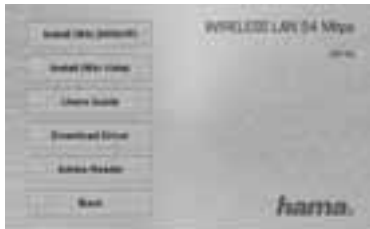
1. Installing the driver and configuration program on Windows 2000/XP

Before installation, please save any open documents you may be working on. Then close all running programs. Insert the CD-ROM provided in the drive. Usually, the CD starts automatically. If the menu does not start automatically, double-click the corresponding CD-ROM drive icon in My Computer. The following window opens after the program starts: Select the required language. The following window is displayed when you select the language.



This installation process is suitable for Windows 98SE/ME/2000/XP/XP-x64 Edition/Vista.

Click **Install (Win 2000/XP)** to continue with the installation. Click **User Guide** to open the operating instructions. Adobe Reader is required to display PDF files. If you have not yet installed Adobe Reader, you will find a free version on the enclosed driver CD. Click **Download driver** to download the latest driver from the Hama website. This allows you to check whether drivers have now been developed for previously unsupported systems. Click **Back** to return to language selection.



When you select Install, the InstallShield Wizard is loaded. This can take a few seconds. Please wait until the InstallShield Wizard starts.

Read the license agreement and click **Yes** if you accept it.

For Windows XP users only

The next screen prompts you to choose whether you want to configure the Wireless LAN Adapter using the Hama Configuration Program or the configuration program integrated in Windows. We recommend that you use the Hama Configuration Program. To do so, select **Hama Wireless Utility** and click **Next**.

In the next screen, select **Configure for best WiFi compatibility** and click **Next**.

The necessary data is now installed. Connect your USB stick to a free USB port as soon as you are prompted to do so by the installation program.

Click **Finish** to complete the installation. You may have to restart the operating system. We also recommend working with a profile on these operating systems from the beginning, i.e. using detailed configuration.

2. The configuration program – introduction and operation on Windows 2000/XP

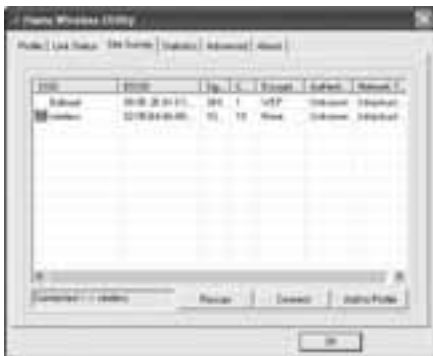
Open the Hama Configuration Program. To do so, click Start -> Programs -> Hama Wireless LAN -> Hama Wireless LAN Utility.

If the program is already running in the background, you will find in the task bar at the bottom right of the screen:



Click the circled symbol to open the utility from the task bar. The Hama Wireless LAN Utility starts with the following screen, whereby the values in the columns may be different.

This screen shows all available wireless networks. The **SSID**, which is used to identify WLAN devices in the respective wireless LAN, the router **MAC address (BSSID)**, the **signal strength**, the **channel** used, the **encryption algorithm** and the **authentication** and the **type of network** are displayed. The lower section of this window shows the connection status (**Connected / Disconnected**). Click **Update** to search for wireless networks again.



2.1 Quick configuration

First, select the required network by clicking the corresponding line in the list. The network selected is highlighted in blue in the list. Now click the **Connect** button. You are connected to the network if the selected network is run without encryption and the signal is strong enough. This is indicated by the green symbol and Connected is shown in the status window.

If the network you selected is encrypted, another window opens in which you can enter the encryption data. The data must be identical to the router or access point settings. The **authentication type** and **encryption** are generally already selected in accordance with the target network. Enter the code which must correspond exactly with the code used by the router or access point. Click **Ok** to confirm after you make your entries.

If you do not have this code yourself, please contact the person responsible for configuring the router or access point.

For detailed information on setting encryption, please see under the heading: **Setting the wireless LAN encryption (Software CD)**.

If you have made these entries successfully, a green symbol is also displayed to indicate the successful connection in the network overview.

For further information on the connection made, open the **Status** tab. It contains information on the **Connection quality**, **Signal strength** or **Interference level**.

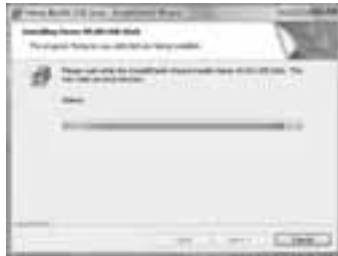
3. Installation and configuration under Windows Vista

Before installation, please save any open documents you may be working on. Then close all running programs. Insert the CD-ROM provided in the drive. Usually, the CD starts automatically. If the menu does not start automatically, double-click the corresponding CD-ROM drive icon in My Computer.

Remark: Please click **"Run autorun.exe"** if the window **"Auto Play"** appears when the CD-ROM has been inserted. The following window opens after the program starts: Select the required language.



Click **"Install (Win Vista)."** The message "An unidentified program wants access to your computer" appears. Allow access by clicking **"Allow"**. Click -> **Next** in the next window **"Welcome to the InstallShield Wizard..."**. Continue with **"Install"** and connect the WLAN stick with your computer.



Wait until the window **"InstallShield Wizard completed"** appears and finish with **Finish**.

3.1 Operation of the Windows Vista configuration program

Click the symbol with the two computer monitors in the task bar with the **left mouse** button:



Afterwards, you can establish connections to existing WLAN networks.

Click **"Wireless networks are available"** for this purpose. Wait a minute if this option cannot be selected. Please check if the WLAN router or Access Point is operational if this does not help.

The found networks are displayed now. Select the correct network and click **"Connect"**.



Remark concerning hidden networks: the name is not shown in this case. Instead of that, it is called **"Unnamed Network"**. When the connection has been established, you are asked for the name.

Afterwards, you are mostly asked to enter the network **security key**. For reasons of safety, we advise you against using uncoded networks.

Click "**Connect**" for confirmation.

Windows establishes now the connection to the desired WLAN. Afterwards, you can store the network and start it automatically next time. The connection is so automatically established in future. Finish the configuration by clicking with the mouse "**Close**".



3.2 Setting up an Ad-hoc network

This enables direct connections to another Wireless LAN Client device, e.g. a USB stick or a WLAN PCI add-in card. No wireless LAN router or Accesspoint is required for this.

If such a network already exists, you can establish a connection with this one as described above.

If it is to be set up a new, so that other users can connect themselves, you have to proceed as described below:

Click the symbol with the two computer monitors in the task bar with the **left mouse button**:



Click "**Connect to a network**", "**Set up a connection or network**" and then "**Set up a wireless Ad hoc (computer-to-computer) network**". Confirm with -> **Next** -> **Next**.

In the next window, you are asked to enter data concerning the network name and the security type. More information is shown if you move the mouse cursor towards the appropriate field. **Additional remarks concerning the network name and WPA2 security key.** Here, you should only use letters from A-Z, as well as numbers from 0-9.

Confirm your specifications with -> **Next** -> **Close**.



4. Configuring the operating system and computer (Windows)

After you have successfully installed the network adapter, you still have to install or configure a protocol. This protocol governs the data exchange between the computer and the network. TCP/IP is most common. Each computer has to be assigned its own address for the protocol. Automatic address assignment is only reliable if a DHCP server exists in the network, e.g. a router or access point. If you have one of these devices with a DHCP function, you should leave the setting on "Get automatically".

Proceed as follows to check the settings on your PC:

Start -> Settings -> Control panel -> Network connections

Select the connection (network adapter) via which your PC is connected to the router, e.g. "LAN connection". When you **right-click** the corresponding connection, the following screen is displayed when you select **Properties**.

Select the **Internet Protocol (TCP/IP)** entry in the list and click **Properties**.

Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**, if there is a DHCP server in your network. Confirm by clicking **OK**, and again in the subsequent window.

Your PC is now configured such that the router assigns the IP address automatically.

If you do not have a device with an integrated DHCP server, you must assign the IP addresses manually. The following example describes basic setup using manual address assignment. For local networks, special address ranges are provided which are not transmitted over the internet. As an example, a range that you can use for your network is 192.168.1.1 to 192.168.1.254. The first PC is assigned the address 192.168.1.1, the second 192.168.1.2, the third 192.168.1.3, etc.



Select **Use the following IP address** and enter your IP address in accordance with the sample.

1.PC = IP address 192.168.1.1 Subnet mask 255.255.255.0

2.PC = IP address 192.168.1.2 Subnet mask 255.255.255.0

Click **Ok** to confirm your entries.

5. Uninstalling the driver and configuration program on Windows

Select **Start => Settings => Control Panel => Software**

To do so, select **Hama Wireless Utility** and click **Remove**. At the next prompt, click **Remove completely**.

Remove the device from your computer when prompted to do so. Afterwards click **OK**.

The program is now deleted from your computer.

After the software is removed, you may have to restart the system. Save all open documents and close all programs before restarting the PC.

6. Installing the driver and configuration program on MAC OS X

Before installation, please save any open documents you may be working on. Then close all running programs. Ensure that you have administrator authorisations to enable you to install the driver correctly.

Connect the Hama WLAN USB stick to a free USB 2.0 port. Then start your Apple computer. After the operating system has loaded completely and the desktop is complete, insert the enclosed driver CD-ROM in your drive. An icon with the CD-ROM then appears on your desktop. Double-click the icon and select the MAC driver directory in the Finder window. This directory contains the DMG file required for installation. Double click the **DMG file** to activate the image.

After you activate the image, select the correct directory for your installed MAC OS X Version and then double click the corresponding **PKG file**. Installation is now started.

Select your hard drive on which you want to install the driver and the configuration program. You must then restart the system.

7. Configuring the operating system and computer on MAC OS X

After you have installed the driver, you must configure the network environment in accordance with the new situation. To do so, proceed as follows.

Click the **Apple** symbol in the upper menu bar and select the **Environment** menu item. Select the **"Network"** setting menu item. The following window opens. Click **OK** to confirm the message.



Note: If the message shown above is not displayed, the Hama WLAN USB Stick was not correctly identified by your PowerMac. Ensure that the stick is correctly connected to a USB 2.0 port and that the USB 2.0 interface card was correctly installed in your system.

After the Hama WLAN USB Stick has been properly detected, the following window opens.

Select the **New environment...** option under Environment.

Name the new environment e.g. WLAN and click the **OK** button.



Select the **Environment** menu item again in the Network window and select the New environment which has also been selected, **WLAN** in our case. Next, select the **Show/Display** menu item in the Network window and select the **Network configurations** option.

Note: The process for selecting the connections can vary depending on the MAC model and features.

In our case, remove the tick for all connections except the Ethernet connection (**en2**). Then click the **Activate** button. The configuration process is now complete for your system.



8. The configuration program – introduction and operation on MAC OS X

As the Hama WLAN USB Stick is not an official Apple Airport product, you cannot use the Airport software integrated in the system. To configure the Hama WLAN USB Stick, you must open the enclosed utility. Open the finder and select the hard drive where you installed the driver and the utility earlier. The utility is installed in the Programs directory by default. Double-click the WirelessUtilityRT73USB icon.



The following window opens:

This screen shows all available wireless networks. The **SSID**, which is used to identify WLAN devices in the respective wireless LAN, the router MAC address (**BSSID**), the signal strength (**signal**), the channel used (**channel**), the encryption algorithm (**encryption**) and the authentication (**authentication**) and the type of network (**network type**) are displayed. The lower section of this window shows the connection status (**Connected / Disconnected**). Click **RESCAN** to search for wireless networks again.



8.1 Quick configuration

First, select the required WLAN network by clicking the corresponding line in the list. The network selected is highlighted in blue in the list. Now click the **Connect** button. You are connected to the network if the selected network is run without encryption and the signal is strong enough. This is indicated by the green symbol and **Connect** is shown in the status window.

If you have activated encryption, you are asked for the code. Enter the code in the corresponding field.



You can enter the data required for encryption here. The data must be identical to the router or access point settings. The **authentication type** and **encryption** are generally already selected in accordance with the target network. Enter the code which must correspond exactly with the code used by the router or access point. Click **OK** to confirm after you make your entries.

If you do not have this code yourself, please contact the person responsible for configuring the router or access point.

For detailed information on setting encryption, please see under the heading: **Setting the wireless LAN encryption (Software CD)**.

For further information on the connection made, open the **Link status** tab. This shows information such as the **Link quality** and **Signal strength**.

9. Support and contact information

If products are defective:

Please contact your dealer or Hama Product Consulting if you have any product claims.

Internet / World Wide Web:

Product support, new drivers or product information can be found at www.hama.com

Support Hotline – Hama Product Consulting:

Tel. +49 (0) 9091 / 502-115

Fax +49 (0) 9091 / 502-272

E-mail: produktberatung@hama.de

Note:

This product may only be used in Germany, Austria, Switzerland, France, England, Belgium, Spain, Holland, Italy, Denmark, Hungary, Poland, Sweden, Portugal, Luxemburg, Ireland, Greece, the Czech Republic, Slovakia and Finland.

See www.hama.com for the declaration of conformity with R&TTE Directive 99/5/EC.

