MERCUSYS®

User Guide

Bluetooth Nano USB Adapter

MA530

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CE Mark Warning

CE

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

OPERATING FREQUENCY (the maximum transmitted power)

2402MHz~2480MHz: 8.5dBm

EU declaration of conformity

MERCUSYS hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2011/65/EU and (EU)2015/863. The original EU declaration of conformity may be found at https://www.mercusys.com/support/ce.

UK
CA

MERCUSYS hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017.

The original UK declaration of conformity may be found at https://www.mercusys.com/support/ukca/

RF Exposure Information

This device meets the EU requirements (2014/53/EU Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

This device has been tested and meets the ICNIRP exposure guidelines and the European Standard EN 62209-2. SAR is measured with this device at a separation of 0.5 cm to the body, while transmitting at the highest certified output power level in all frequency bands of this device. Carry this device at least 0.5 cm away from your body to ensure exposure levels remain at or below the as-tested levels.

Korea Warning Statements

당해 무선설비는 운용중 전파혼신 가능성이 있음 .

NCC Notice

注意!

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前述合法通信，指依電信管理法規定作業之無線電通信。

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BSMI Notice

安全諮詢及注意事項

• 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。

• 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。

• 注意防潮，請勿將水或其他液體潑灑到本產品上。

• 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。

• 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。

• 不要私自拆開機殼或自行維修，如產品有故障請與原廠或代理商聯繫。

限用物質含有情況標示聲明書

設備名稱：Bluetooth Nano USB Adapter Equipment name			型號（型式）：MA530 Type designation (Type)			
產品元件 名稱	限用物質及其化學符號					
	鉛 Pb	鎘 Cd	汞 Hg	六價鉻 CrVI	多溴聯苯 PBB	多溴二苯醚 PBDE
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
天線	○	○	○	○	○	○
其他及其 配件	−	○	○	○	○	○
備考1."超出0.1wt%"及"超出0.01wt%"系指限用物質之百分比含量超出百分比含量基準值。 備考2."○"系指該項限用物質之百分比含量未超出百分比含量基準值。						

ÉLÉMENTS D'EMBALLAGE À SÉPARER ET À DÉPOSER DANS LE BAC DE TRI

Продукт сертифіковано згідно с правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.

Safety Information

• Keep the device away from water, fire, humidity or hot environments.

- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use the device where wireless devices are not allowed.
- This equipment can be powered only by equipments that comply with Power Source Class 2 (PS2) or Limited Power Source (LPS) defined in the standard of IEC 62368-1.

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

This product uses radios and other components that emit electromagnetic fields. Electromagnetic fields and magnets may interfere with pacemakers and other implanted medical devices. Always keep the product and its power adapter more than 15 cm (6 inches) away from any pacemakers or other implanted medical devices. If you suspect your product is interfering with your pacemaker or any other implanted medical device, turn off your product and consult your physician for information specific to your medical device.

Environment
Operating Temperature: 0℃ ~40℃ (32 ℉ ~104 ℉)

Explanation of the symbols on the product label
Symbols may vary from products.

Symbol	Explanation
	Class II equipment
	Class II equipment with functional earthing
	Alternating current
	Direct current
	Polarity of d.c. power connector
	Indoor use only
	Dangerous voltage
	Caution, risk of electric shock
	Energy efficiency Marking

	Protective earth
	Earth
	Frame or chassis
	Functional earthing
	Caution, hot surface
	Caution
	Operator's manual
	Stand-by
	"ON"/"OFF" (push-push)
	Fuse
	Fuse is used in neutral N
	RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.
	Caution, avoid listening at high volume levels for long periods
	Disconnection, all power plugs

m	Switch of mini-gap construction
μ	Switch of micro-gap construction (for US version) Switch of micro-gap / micro-disconnection construction (for other versions except US)
ε	Switch without contact gap (Semiconductor switching device)

Conventions

The Adapter or MA530, or device mentioned in this User Guide stands for Bluetooth Nano USB Adapter without any explanations.

Note: Features of the adapter may vary by model and driver version. All images, steps, and descriptions in this guide are only examples and may not reflect your actual adapter experience.

More Info

Specifications and the latest software can be found at the product page at the official website **http://www.mercusys.com**.

The Quick Installation Guide can be found where you find this guide or inside the package of the router.

Speed/Coverage Disclaimer

†Several new features are introduced in the Bluetooth Core Specification 5.0 and 5.3 Release, including 2× faster speed and 4× broader coverage compared with Bluetooth 4.2.

‡Functionality may be restricted on some operating systems and platforms. To ensure compatibility, you may need to update the adapter's drivers after an OS update. You can find our latest drivers in the download center at http://www.mercusys.com

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Chapter 1 Introduction

1.1   Product Overview

MA530 makes your PC Bluetooth-capable with ultra-fast Bluetooth 5.3 which achieves more stable connection, farther range and faster transmission speeds. Just connect your Bluetooth devices to your computer and enjoy with ease.[†]

1.2   Features

• Bluetooth 5.3 — Speed, coverage, security and reliability improvement than last-gen Bluetooth

• Wireless Connectivity – Provides stable and convenient communication between Bluetooth devices and your PC or laptop

• Nano-Size – Ultra-small for convenient portability with reliable high performance

• Backward Compatibility - Work with devices supported the earlier Bluetooth version
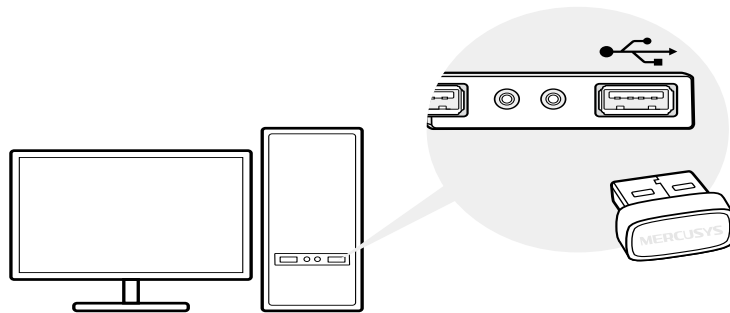
• Supported Operating System – Windows 11/10/8.1/7[‡]

Chapter 2 Installation Guide

2.1   Hardware Connection

1. Before you start using your adapter, disable all existing Bluetooth devices (both built-in and third-party) from the **Device Manager** on Windows.

Note: To go to Device Manager: Right-click **This PC** or **My Computer**, select **Manage**, go to **Device Manager** and disable all existing Bluetooth devices.

2.   Insert the adapter into a USB port on your computer directly.

* The image is for demonstration only.

2.2   Driver Installation

1. Download the latest driver at https://www.mercusys.com/support

Tip: For Windows 11/10/8.1 system, the driver installation will automatically start when connected to the internet. If not, please download the driver manually.

2. Extract the downloaded file and run the setup.exe to start driver installation.

3. Follow the instructions to complete installation.

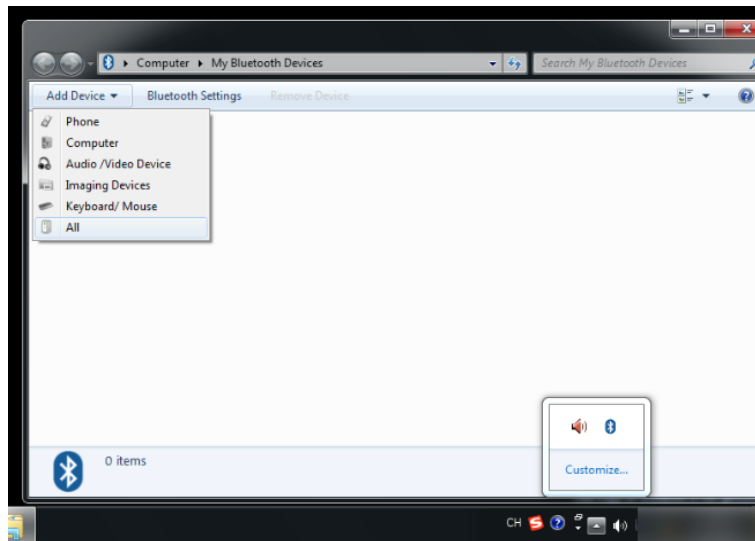4. Once the process is finished, restart your computer.

Note:

• Your MERCUSYS Bluetooth USB adapter will be listed in the **Device Manager** when the driver is installed correctly.

• If the driver installation fails, disable the antivirus software and firewall, then try again.

• In Windows 7, if a Windows Security message pops up, refer to https://www.mercusys.com/faq-912

Chapter 3 Pair With Your Bluetooth Devices

With both the hardware and software successfully installed into your computer, you can quickly pair with your Bluetooth devices.

For Windows 7:

1. Open Start menu to access **Devices and Printers**.

2. Select **Add Device** to choose the device that you want to pair with your computer.

3. Select the found-out device from the list and click **Next**.

Note:

Make sure your Bluetooth device is set to be discoverable.

4. Click **Finish** when completing the pairing.

Note:

During the pairing you may be prompted to enter the pairing code. You need to enter the identical code to both devices.

For Windows 8.1:

1. Open **Start** menu, type **Bluetooth** to access Bluetooth settings.

2. Toggle on Bluetooth.

3. Select your Bluetooth device and follow the on screen instructions to complete pairing.

For Windows 11/10:

1. Open **Start** menu, type **Bluetooth** to access Bluetooth settings.

2. Click **Add Bluetooth or other devic**e to scan for Bluetooth devices.

3. Select your Bluetooth device from the list and follow the on screen instructions to complete pairing.

Note:

Make sure your Bluetooth device is set to be discoverable.

If the Bluetooth icon doesn't appear, refer to **Troubleshooting->Q1**.

During the pairing, you may be prompted to enter the pairing code. You need to enter the identical code to both devices.

Chapter 4 Uninstall Driver

You can remove the driver from **Apps and Features** and **Windows Control Panel**:

From Apps and Features

1. Right-click the **Start** button on the left-bottom of your Desktop, and select **Apps and Features**.

2. Find and uninstall the **Mercusys MA530 Bluetooth 5.3 Driver**.

3. Follow the on-screen instructions to complete the uninstallation.

4. Restart your computer.

From Windows Control Panel

1. Press **Windows** key + **R**, type 'control', and then press **Enter** to open the Control Panel .

2. Locate **Programs** and click **Uninstall a program**.

3. Find **Mercusys MA530 Bluetooth 5.3 Driver.** Right-click the driver and select **Uninstall**

4. Follow the on-screen instructions to complete the uninstallation.

5. Restart your computer.

Troubleshooting

Q1. What should I do if the Bluetooth icon doesn't appear?

A1. Make sure you have turned on the Bluetooth in Windows settings.

A2. If there are other Bluetooth devices on the computer, disable them in **Device Manager**, then insert the adapter and try again.

Q2. Why the adapter is not working with my Bluetooth device?

A1. Make sure your device has BLUETOOTH function.

A2. Make sure you have installed the latest Bluetooth driver on the computer. You can check the published driver versions from <u>https://www.mercusys.com/support</u>

A3. For devices with non-standard Bluetooth protocols, such as Logitech Mouse, there may be some compatibility problems.

Q3. Can't Find the Hardware Version of the Adapter?

Refer to <u>https://www.mercusys.com/en/faq-813</u>

Q4. How to Manually Install /Update Adapters on Windows 10?

Refer to <u>https://www.mercusys.com/faq-265</u>

Appendix: Specifications

Normal	
Interface	USB 2.0 Interface
Standards	Bluetooth 5.3
Dimensions	19.15 × 14.94 × 7.19 mm (0.75 × 0.59 × 0.28 in.)
Operating System	Windows 11/10/8.1/7 (32/64-bit)
Signal Rate	2402-2480 MHz
Safety & Emissions	CE, ROHS

Environmental and Physical	
Operating Temperature	0℃~40℃ (32℉~104℉)
Storage Temperature	-40℃~70℃ (-40℉~158℉)
Working Humidity	10% - 90% RH, Non-condensing
Storage Humidity	5% - 90% RH, Non-condensing