User Guide

AX300 Nano Wi-Fi 6 Wireless USB Adapter
Archer TX1U Nano

 REV1.0.0 1910013720

Contents

About This Guide

This guide is a complement to Quick Installation Guide. The Quick Installation Guide instructs you on quick installation, and this guide provides the product overview and detailed instructions for each steps.

When using this guide, please notice that features of the adapter may vary slightly depending on the model and software version you have. All screenshots, images, parameters and descriptions documented in this guide are used for demonstration only.

Conventions

In this guide, the following conventions are used:

Convention	Description
underlined	Hyperlinks are underlined. You can click to redirect to a website or a specific section.
Teal	Contents to be emphasized and texts on the web page are in teal, including the menus, items, buttons, etc.
Note:	Ignoring this type of note might result in a malfunction or damage to the device.
Tips:	Indicates important information that helps you make better use of your device.

More Info

- The latest software and utility can be found at Download Center at http://www.tp-link.com/support.
- The Quick Installation Guide (QIG) can be found where you find this guide or inside the package of the product.
- Specifications can be found on the product page at http://www.tp-link.com.
- Our Technical Support contact information can be found at the Contact Technical Support page at http://www.tp-link.com/support.

Chapter 1

Get to Know About Your Adapter

This chapter introduces what the adapter can do and shows its appearance.

Product Overview

TP-Link Wireless USB Adapter connects your computer to a Wi-Fi network for video streaming, online gaming, secure internet surfing and internet calls.

• Compatible with 802.11b/g/n products

• Reaches speeds of up to 287 Mbps, ideal for surfing, emailing and posting social media.†

• The adapter with sleek miniature design is so small that once plugged in, can be left in a computer's USB port

• Works with MU-MIMO routers, which provide simultaneous data streams, boosting throughput and efficiency.§

• Supports WEP, WPA-PSK/ WPA2-PSK encryption

• Supported operating systems include Windows 11/10/7 and Linux (Kernel 3.10 and later)‡

• Environment:

Operating Temperature: 0°C~40°C (32°F~104°F)

Storage Temperature: -40°C~70°C (-40°F~158°F)

Operating Humidity: 10%~90% non-condensing

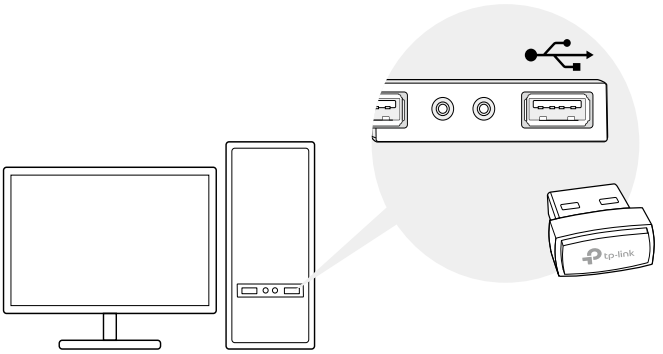
Storage Humidity: 5%~90% non-condensing

Chapter 2

Connect to a Computer

This chapter introduces how to connect the adapter to your computer.

Before you start using your adapter, insert the adapter into a USB port on your computer directly.



After connecting your adapter to the computer, please follow the instructions in the appropriate chapter for your operating system: Windows, Linux.

Chapter 3

Windows

This chapter introduces how to install your adapter's driver, use your adapter to join a wireless network, and uninstall your adapter in a Windows system. The adapter is equipped with a Setup Wizard, which can guide you through the installation process.

This chapter includes the following sections:

3. 1. Install Driver

1. Go to My Computer or This PC.
2. Double click the TP-LINk disk then run SetupInstall.exe to install driver.
   Note:
   You can also download the driver from the product's Support page at www.tp-link.com.
3. Once finished, restart your computer.
   Note:
   • If an unknown publisher message pops up, select Yes to continue.
   • If Windows User Account Control requires admin credentials, type user name and password of your Windows administrator account.

3. 2. Join a Wireless Network

You can join a wireless network via Windows built-in wireless utility. Follow the instructions below to use your computer system's built-in wireless utility:

1. Click , , or (Network icon) on the taskbar.
2. Select the Wi-Fi network you want to join, and click Connect. Enter the network password when prompted.

3. 3. Uninstall Driver

The software uninstallation steps vary a bit from different systems. Please follow the appropriate instructions for your Windows operating system: Windows 11/10/7.

• Windows 11/10

Go to Start menu to find the TP-Link application. Click Uninstall TP-Link Archer TX1U Nano Driver, then follow the on-screen instructions to complete the uninstallation.

• Windows 7

Go to Start > All Programs > TP-Link > Uninstall TP-Link Archer TX1U Nano Driver. Follow the on-screen instructions to complete the uninstallation.

Chapter 4

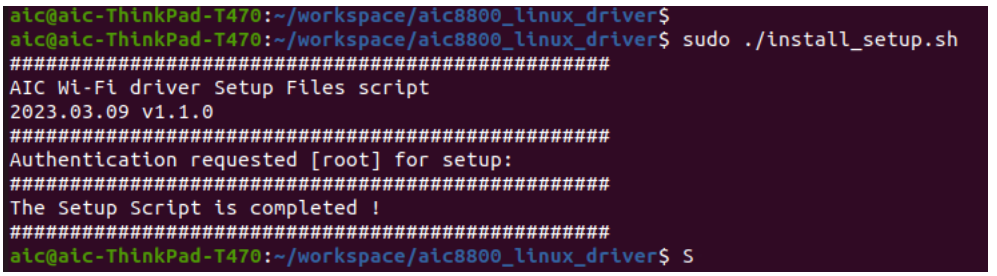
Linux

This chapter introduces how to install your adapter's driver in a Linux system.

1. Before you start

Change to the driver directory and run install_setup.sh:

sudo ./install_setup.sh

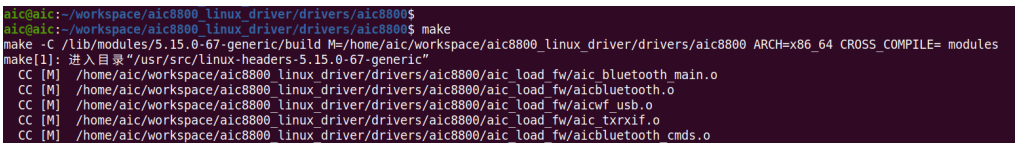


Note:
You can always download the driver or check the new release at https://www.tp-link.com/download-center. Then find the compatible version of driver in the support page.

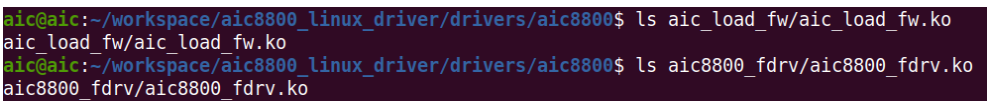
2. Compile the Driver

Change to aic8800_linux_driver/driver/aic8800, modify the Makefile and add parameters to specify the cross-compilation environment:

make



After compiling check if the two modules are already available: aic_load_fw.ko and aic8800_fdrv.ko.



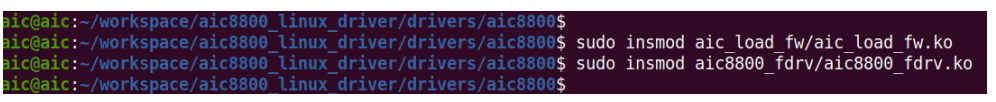
3. Load the Driver

Change to aic8800_linux_driver/driver/aic8800 and run the following commands:

For virtual machine users, before loading the driver please run sudo modprobe cfg80211

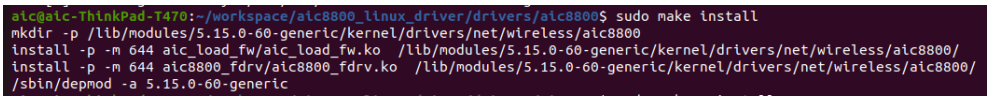
sudo insmod aic_load_fw/aic_load_fw.ko

sudo insmod aic8800_fdrv/aic8800_fdrv.ko



Or

sudo make install



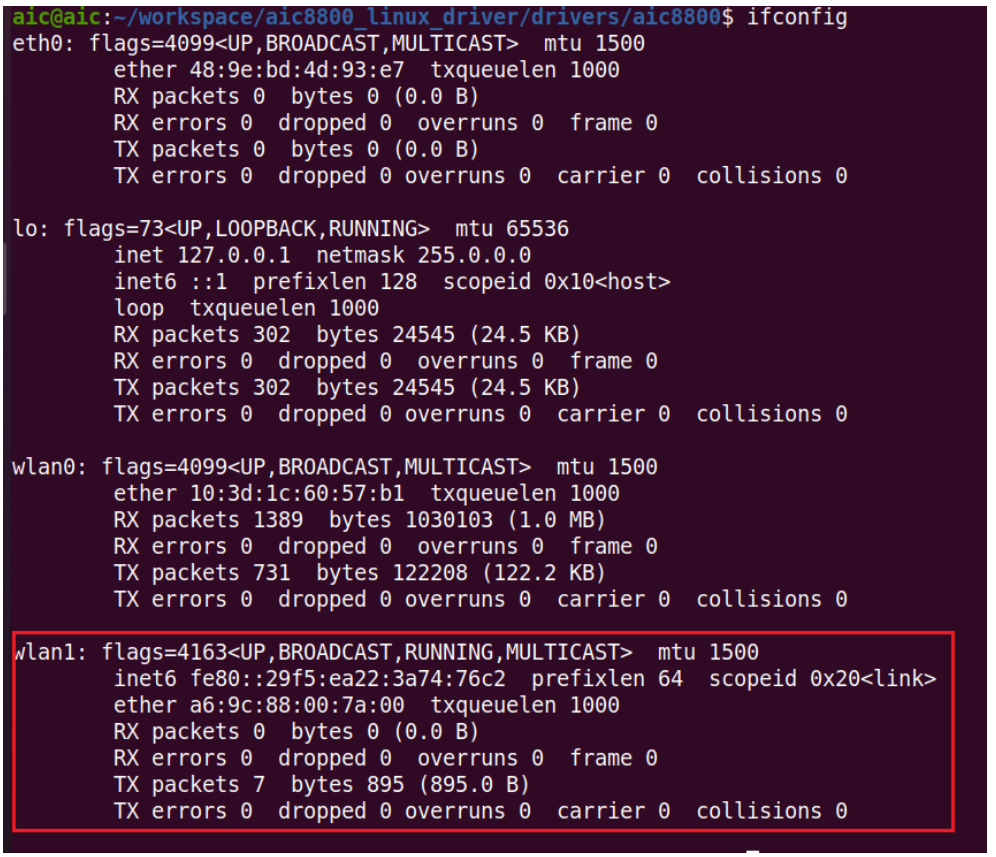
4. Install the Driver

Please install the driver first and then connect the adapter to your PC.

Check if the driver is loading successfully:

ifconfig

If the output of "ifconfig" shows the expected network interface, the driver should have loaded successfully and you can join the Wi-Fi of your router.



5. Uninstall the driver

Run the following commands:

sudo rmmod aic8800_fdrv

sudo rmmod aic_load_fw

Or change to aic8800_linux_driver/driver/aic8800 and run:

sudo make uninstall

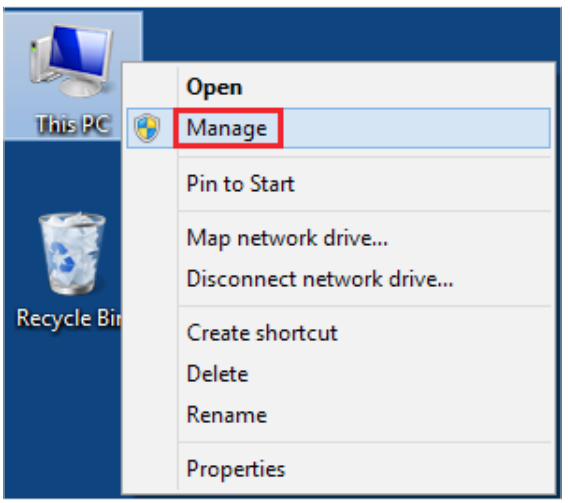
Appendix: Troubleshooting

T1. What should I do if the adapter is not detected?

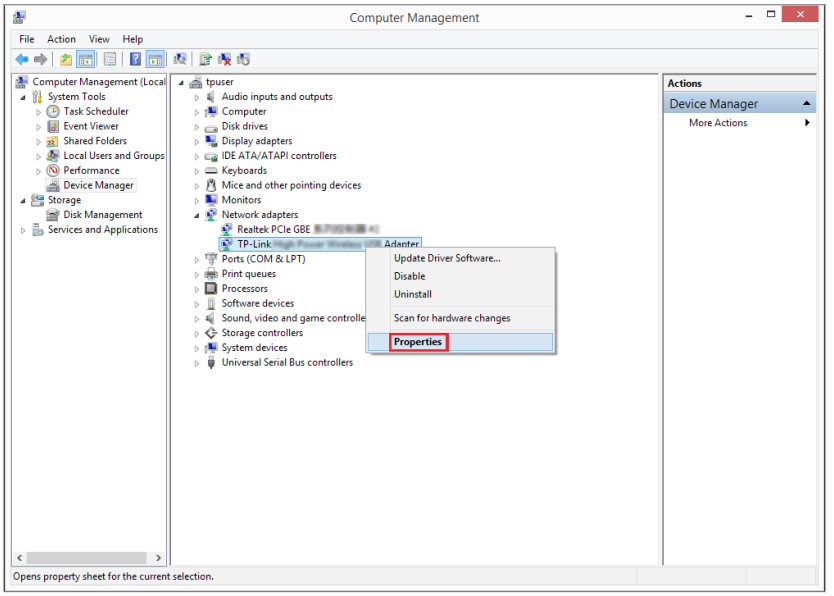
- Make sure the adapter is securely connected to the computer.
- Make sure you meet the minimum system requirements for the adapter and that the latest Windows and system updates are installed on your computer.
- Make sure you use the latest driver for your specific adapter. The latest drivers can be found at the product's Support page at http://www.tp-link.com.
- Try a different USB port on the computer.
- Try restarting the computer or try using the adapter on a different computer.

T2. How to check if I have installed the driver for my adapter successfully or not?

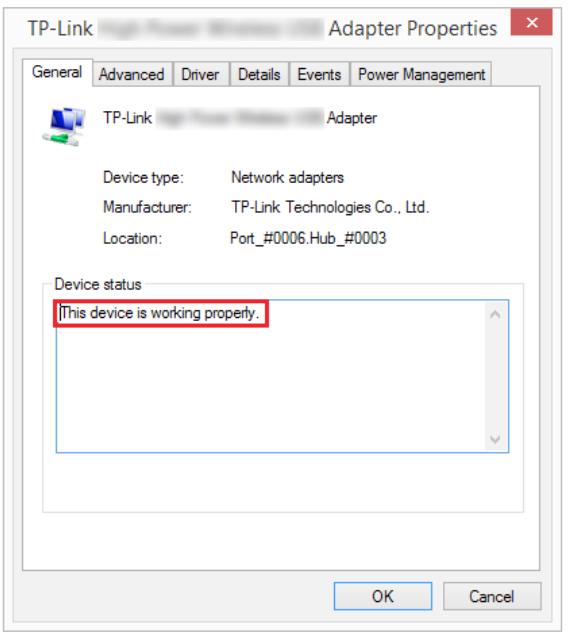
1. On your computer, please right click Computer icon and go to Manage;



2. Open the Device Manager and go to Network adapters, and then find the corresponding TP-Link adapter, right click it and then go to Properties;



3. If you can see “This device is working properly.” in the red box, you have already installed the driver successfully.



T3. What should I do if can’t connect to the Wi-Fi after installing the driver?

- Refer to T2 to check if you have installed the driver for your adapter successfully .
- Make sure the adapter is securely connected to the computer.
- Disable the antivirus software and firewall, then try again.
- Try a different USB port on the computer.
- Restart your computer and try again.

- Re-install the driver and try again.

T4. How to find the hardware version of the adapter?

- The hardware version is printed on the product label on the package or the adapter. There is a character string “Ver:X.Y” (for example, Ver:2.0) in the Serial Number field, and the number X is the hardware version of the adapter.

- Visit http://www.tp-link.com/faq-46.html and follow the second method to find the hardware version of the adapter.

FCC compliance information statement

Product Name: AX300 Nano Wi-Fi 6 Wireless USB Adapter

Model Number: Archer TX1U Nano

Responsible party:

TP-Link Systems Inc.

Address: 10 Mauchly, Irvine, CA 92618

Website: https://www.tp-link.com/us/

Tel: +1 626 333 0234

Fax: +1 909 527 6804

E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference.

2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment has been SAR-evaluated for use in hand. SAR measurements are based on a 5mm spacing from the body and that compliance is achieved at that distance.

We, TP-Link Systems Inc., has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Issue Date: 24/11/20

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)

2412MHz—2472MHz (20dBm)

EU declaration of conformity

TP-Link 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 http://www.tp-link.com/en/ce.

UK CA

UK declaration of conformity

TP-Link 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.tp-link.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.

Canadian Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1) This device may not cause interference.

2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de lic ence. L'exploitation est autorisée aux deux conditions suivantes :

1) l'appareil ne doit pas produire de brouillage;

2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation Exposure Statement:

This EUT is compliance with SAR for general population/uncontrolled exposure limits in RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528 and IEC 62209. This equipment should be installed and operated with minimum distance 0.5 cm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Déclaration d'exposition aux radiations :

Cet adaptateur est conforme au SAR pour la population générale/limites d'exposition non contrôlées dans RSS-102 et a été testé conformément aux méthodes et procédures de mesure spécifiées dans IEEE 1528 et CEI 62209. Cet équipement doit être installé et utilisé avec une distance minimale de 5 mm entre le radiateur et votre corps. Cet appareil et ses antennes ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

Industry Canada Statement

CAN ICES-3 (B)/NMB-3(B)

Korea Warning Statements

당해 무선설비는 운용중 전파혼신 가능성이 있음 .

NCC Notice

注意!

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信; 經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前述合法通信，指依電信管理法規定作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

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：AX300 Nano Wi-Fi 6 Wireless USB Adapter Equipment name				型號（型式）：Archer TX1U Nano 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。						

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

EAC

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°C ~ 40°C (32 °F ~104 °F)

Explanation of the symbols on the product label

Symbol	Explanation
	Class II equipment
	Class II equipment with functional earthing
	Alternating current
	Direct current
	Polarity of d.c. power connector

Symbol	Explanation
	For 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

Symbol	Explanation
	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)