

*Panda Wireless*<sup>®</sup>

PAU0F AXE3000 WiFi 6E USB Adapter



# User Manual

Version 1.0

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# Federal Communication Commission Interference Statement



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.

## **FCC Caution**

To assure continued compliance, (Example – use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without RF restriction.

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. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

# CE Mark Warning

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.

# WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

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# 1. Introduction

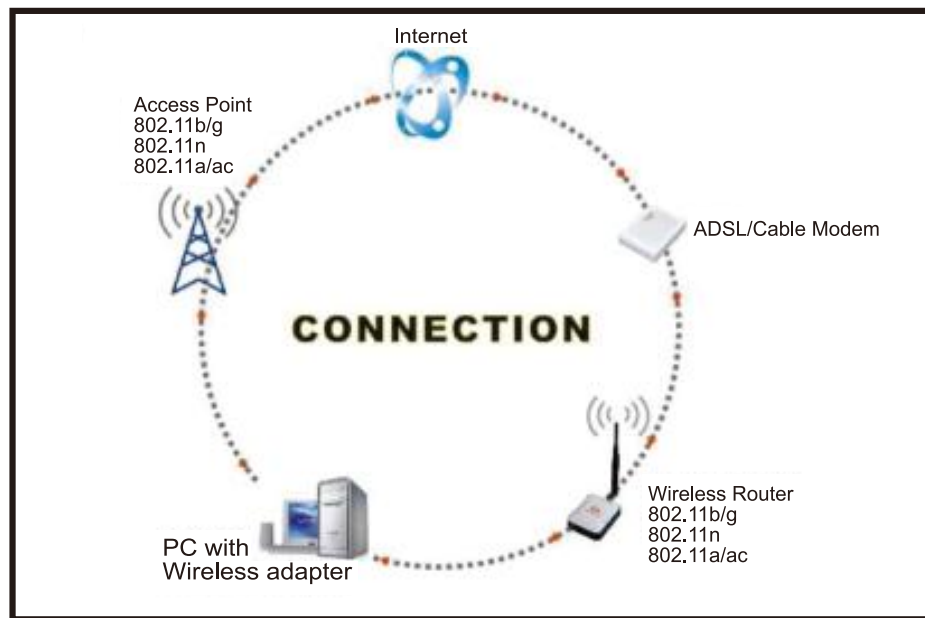
The Panda Wireless Tri-Band (2.4GHz / 5GHz / 6GHz) 802.11ax USB Adapter is easy to use and set up. If you are tired of dealing with all those messy wires to connect a laptop or PC to your home or office network, this Panda Wireless adapter is an ideal access solution for wireless connection via your wirelessrouter to the Internet.

## Key Features

- Compatible with IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac and IEEE 802.11ax wireless standards
- Compatible with USB 2.0 and 3.0 interfaces
- Transmission Data Rate: up to 600 Mbps on the 2.4GHz band and 1200 Mbps on the 5GHz and 6GHz bands
- Supports WEP, WPA, WPA2 and WPA3 wireless authentication protocols
- Supports TKIP and AES data encryptions
- Supports infrastructure and Ad-Hoc modes
- Supported operating systems: Windows 10/11 and Linux distributions like Ubuntu, Linux Mint, etc.

# Wireless Networking Overview

A typical Internet access application for the USB wireless adapter is shown in the following diagram:



There are two different ways to access Internet:

1. With a wireless adapter, you can receive and transfer signal via a wireless router, then pass to a Cable/DSL modem, then to a local internet service provider.
2. With a wireless adapter, you can receive and transfer signal via local AP (Access Point) or so called WiFi Hotspot directly.

## 2. Package Contents:

- Panda Wireless® PAU0F 802.11ax USB Adapter
- CD
- USB 3.0 Cable For USB-C port
- User Manual



# Product Warranty

Panda Wireless® warrants to the end user (“Customer”) that this adapter will be free from defects in workmanship and materials, under normal use and service, for twelve (12) months from the date of purchase from its authorized reseller. Information in this document is subject to change without prior notice.

## 3. Driver Installation for Windows 10/11

To install the driver of the USB adapter, please log into a user account with the administrator's privilege before you follow the installation instructions below:

**Tips:** Please get latest update for Windows 10/11 from Microsoft. Please send an email to [support@pandawireless.com](mailto:support@pandawireless.com) if you don't know how to do it.

**The Panda PAU0F adapter will connect to a 6GHz WiFi network on a computer running Windows 11 or higher.**

## Notes:

a) Due to frequent updates, the contents in the CD are probably outdated upon receipt. You can get the latest drivers and manuals on the Panda Wireless web site: [www.pandawireless.com](http://www.pandawireless.com).

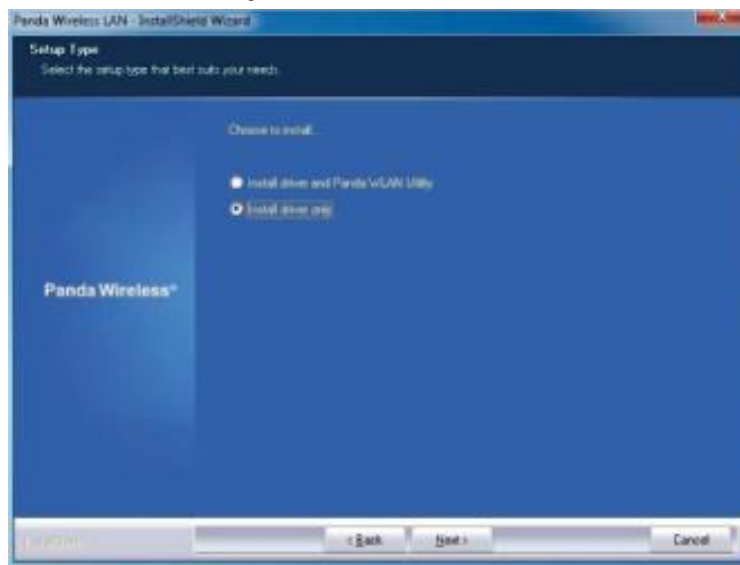
b) Some anti-virus/firewall software block Windows to load the drivers for the Panda adapter. i.e. Zone Alarm, AVG, Avast, Kaspersky, Bit Defender, etc. You need to uninstall the software before you install a driver for the Panda adapter.

1) Follow the instructions and prompts of the “Install Shield Wizard” to finish the driver installation:

a. Select the **“I accept the terms of the license agreement”** and then click the **“Next”**.



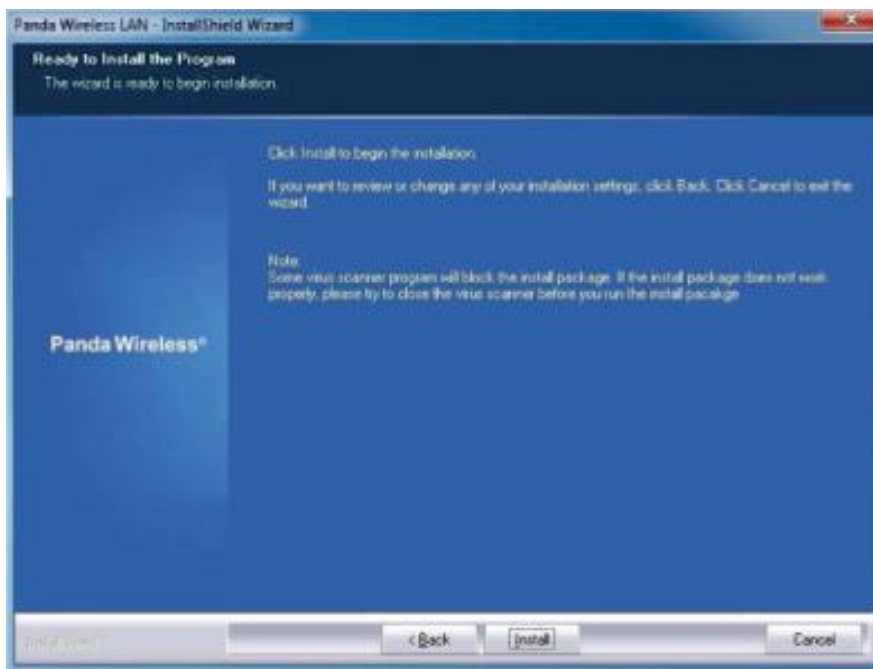
b. Select **“Install Driver Only”** and click **“Next”**.



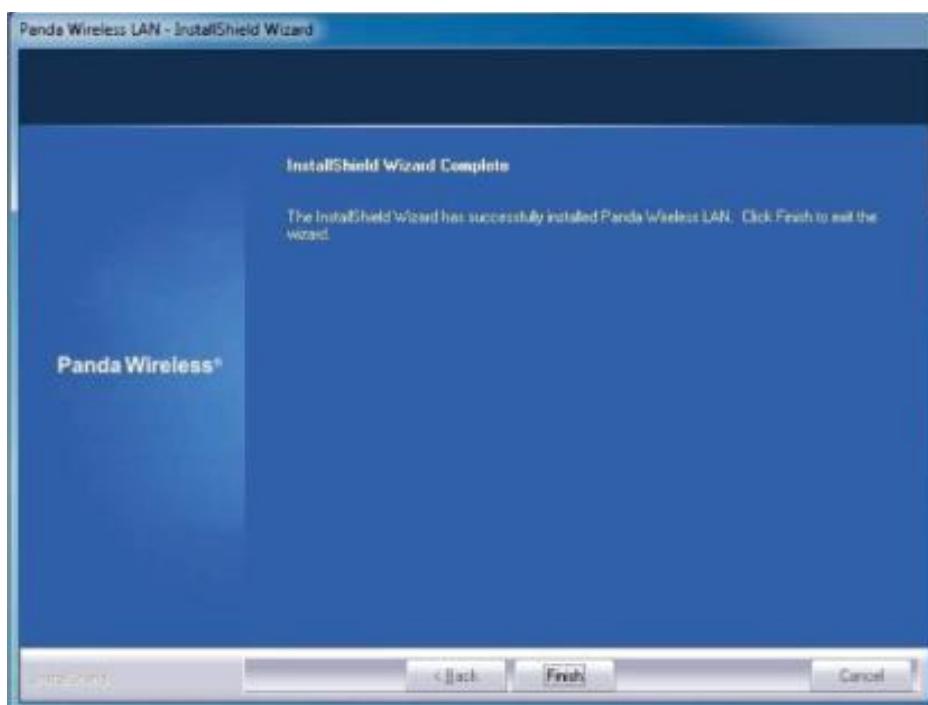
## Notes:

Select **“Install driver and WLAN Utility”** if you want to set up your computer as a WiFi Hotspot/WiFi repeater with the Panda adapter.

c. Click the **“Install”** to confirm the installation and then wait a while.



d. Click **“Finish”** to finish the driver installation.

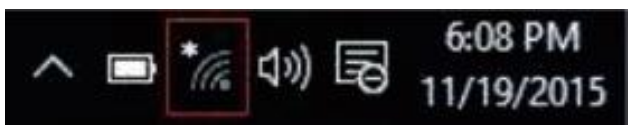


## 4. How to connect to your own wireless network

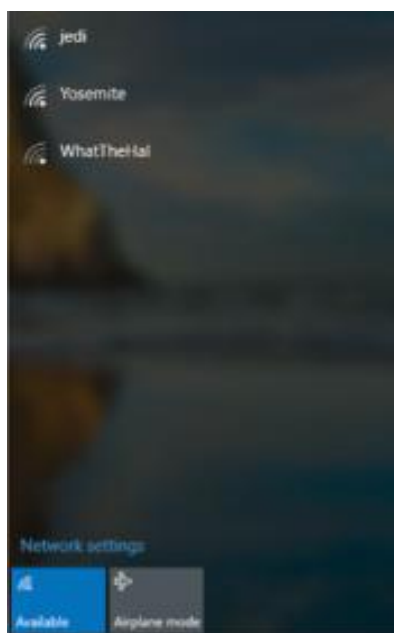
Plug the Panda Wireless® adapter into one of the USB ports of your computer

### For Windows 10 / 11:

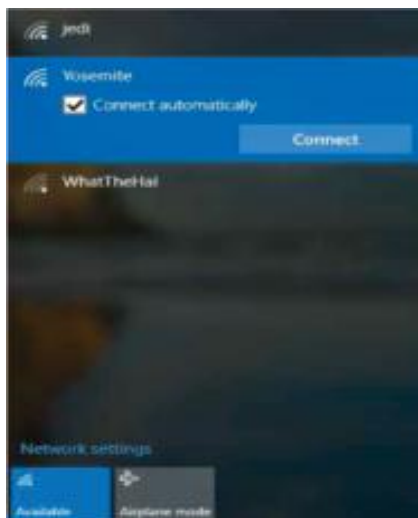
1) You move the mouse to the lower right hand corner of the screen. Select the wireless icon in the red rectangle



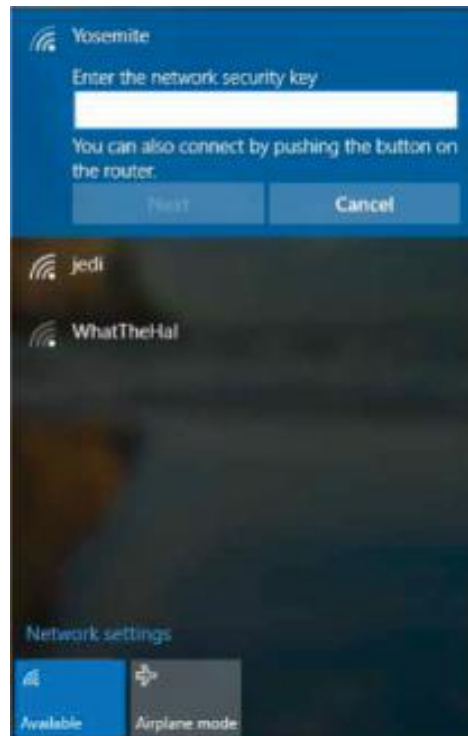
and select your wireless network from the list.



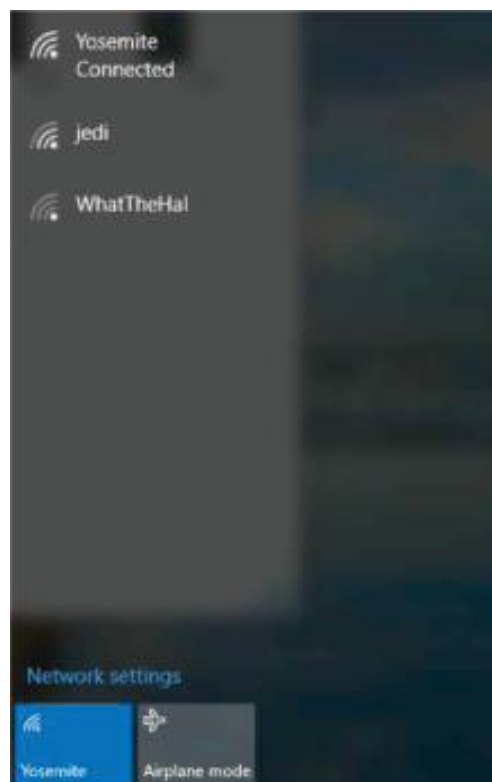
2) Click the "Connect" button to connect to your wireless network.



3) If your wireless network has configured with wireless security, enter the network password. The following is an example for password protected network.



4) Your computer is connected to your wireless network if you see **“Connected”** next to your wireless network.



# 5. Product Specifications

HARDWARE FEATURES	
Interface	USB3.0
Antenna Type	Two external 3dBi Antennas

WIRELESS FEATURES				
Wireless Standards	IEEE 802.11ax, IEEE 802.11ac, IEEE 802.11a IEEE 802.11n, IEEE802.11g, IEEE 802.11b			
Frequency Ranges	2.4GHz: 2412MHz--2484MHz 5GHz: 5180MHz---5825MHz 6GHz: 5925MHz---7125MHz (Windows 11 or higher)			
Signal Rates	<table border="1"> <tr> <td>5/6GHz: 11ax: Up to 1200Mbps(dynamic) 11ac: Up to 867Mbps(dynamic) 11n: Up to 300Mbps(dynamic) 11a: Up to 54Mbps(dynamic)</td> <td>2.4GHz: 11ax: Up to 600Mbps(dynamic) 11n: Up to 300Mbps(dynamic) 11g: Up to 54Mbps(dynamic) 11b: Up to 11Mbps(dynamic)</td> </tr> </table>	5/6GHz: 11ax: Up to 1200Mbps(dynamic) 11ac: Up to 867Mbps(dynamic) 11n: Up to 300Mbps(dynamic) 11a: Up to 54Mbps(dynamic)	2.4GHz: 11ax: Up to 600Mbps(dynamic) 11n: Up to 300Mbps(dynamic) 11g: Up to 54Mbps(dynamic) 11b: Up to 11Mbps(dynamic)	
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Wireless Transmitting Power	< 20 dBm			
Reception Sensitivity	<table border="1"> <tr> <td>6GHz: 11a 6Mbps: -91dBm 11a 54Mbps: -73dBm 11n HT20 MCS7: -71dBm 11n HT40 MCS7: -68dBm 11ac HT20 MCS8: -67dBm 11ac HT40 MCS9: -62dBm 11ac HT80 MCS9: -59dBm 11ax HE20 MCS11: -60dBm 11ax HE40 MCS11: -57dBm 11ax HE80 MCS11: -53dBm</td> <td>5GHz: 11a 6Mbps: -93dBm 11a 54Mbps: -75dBm 11n HT20 MCS7: -73dBm 11n HT40 MCS7: -70dBm 11ac HT20 MCS8: -69dBm 11ac HT40 MCS9: -64dBm 11ac HT80 MCS9: -61dBm 11ax HE20 MCS11: -62dBm 11ax HE40 MCS11: -59dBm 11ax HE80 MCS11: -55dBm</td> <td>2.4GHz: 11b 1Mbps: -97dBm 11b 11Mbps: -89dBm 11g 6Mbps: -94dBm 11g 54Mbps: -76dBm 11n HT20 MCS7: -74dBm 11n HT40 MCS7: -71dBm 11ax HE20 MCS11: -63dBm 11ax HE40 MCS11: -60dBm</td> </tr> </table>	6GHz: 11a 6Mbps: -91dBm 11a 54Mbps: -73dBm 11n HT20 MCS7: -71dBm 11n HT40 MCS7: -68dBm 11ac HT20 MCS8: -67dBm 11ac HT40 MCS9: -62dBm 11ac HT80 MCS9: -59dBm 11ax HE20 MCS11: -60dBm 11ax HE40 MCS11: -57dBm 11ax HE80 MCS11: -53dBm	5GHz: 11a 6Mbps: -93dBm 11a 54Mbps: -75dBm 11n HT20 MCS7: -73dBm 11n HT40 MCS7: -70dBm 11ac HT20 MCS8: -69dBm 11ac HT40 MCS9: -64dBm 11ac HT80 MCS9: -61dBm 11ax HE20 MCS11: -62dBm 11ax HE40 MCS11: -59dBm 11ax HE80 MCS11: -55dBm	2.4GHz: 11b 1Mbps: -97dBm 11b 11Mbps: -89dBm 11g 6Mbps: -94dBm 11g 54Mbps: -76dBm 11n HT20 MCS7: -74dBm 11n HT40 MCS7: -71dBm 11ax HE20 MCS11: -63dBm 11ax HE40 MCS11: -60dBm
6GHz: 11a 6Mbps: -91dBm 11a 54Mbps: -73dBm 11n HT20 MCS7: -71dBm 11n HT40 MCS7: -68dBm 11ac HT20 MCS8: -67dBm 11ac HT40 MCS9: -62dBm 11ac HT80 MCS9: -59dBm 11ax HE20 MCS11: -60dBm 11ax HE40 MCS11: -57dBm 11ax HE80 MCS11: -53dBm	5GHz: 11a 6Mbps: -93dBm 11a 54Mbps: -75dBm 11n HT20 MCS7: -73dBm 11n HT40 MCS7: -70dBm 11ac HT20 MCS8: -69dBm 11ac HT40 MCS9: -64dBm 11ac HT80 MCS9: -61dBm 11ax HE20 MCS11: -62dBm 11ax HE40 MCS11: -59dBm 11ax HE80 MCS11: -55dBm	2.4GHz: 11b 1Mbps: -97dBm 11b 11Mbps: -89dBm 11g 6Mbps: -94dBm 11g 54Mbps: -76dBm 11n HT20 MCS7: -74dBm 11n HT40 MCS7: -71dBm 11ax HE20 MCS11: -63dBm 11ax HE40 MCS11: -60dBm		

Wireless Modes	Ad-Hoc / Infrastructure
Wireless Security	Supports WEP, WPA, WPA2, WPA3
Modulations	DBPSK, DQPSK, CCK, OFDM, 16QAM, 64QAM, 256QAM, 1024QAM

OTHERS	
System Requirements	Windows 11/ 10 and Linux
Environment	Operating Temperature: 0°C~40°C (32°F~104°F) Storage Temperature: -20°C~70°C (-4°F~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing