

# Wireless N300 USB Adapter with High Gain External Antenna Model 202050



**User Manual** 





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### 1. Introduction

### 1.1 Introduction

Thank you for your purchase from Cable Matters® Inc., the 'Reliable Connectivity' company. This User Manual provides an overview of the features and installation of your new

# Wireless N300 USB Adapter with High Gain External Antenna

For optimum performance and safety, please read these instructions carefully before connecting, operating or configuring this product. Please keep this manual for future reference.

Please contact **support@cablematters.com** for questions or product support.

# 1.2 Copyright and Trademarks

Specifications are subject to change without notice. Cable Matters® is a registered trademark or trademark of Cable Matters Inc. All rights reserved.

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### 1.3 FCC Compliance 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.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC Caution: 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.



### 2. PRODUCT OVERVIEW

### 2.1 Package Contents

Please check that the following items are contained in the box:

- Wireless N300 USB Adapter
- Detachable High Gain Antenna
- 1 x Mini-CD with Software Drivers and User Manual (Download from www.cablematters.com/downloads)
- 1 x Quick Start Guide for Windows (English)

### 2.2 Product Description

The Cable Matters® Wireless N300 USB Adapter with External High Gain Antenna is the perfect choice for replacing a failed wireless card or upgrading the wireless connectivity of an older computer. This High Gain 2T2R antenna provides a Wi-Fi connection up to 300 feet away. Connect to 802.11 b/g/n routers and public hotspots at the 2.4 GHz frequency range. Protect your data with advanced security encryption including WEP/WPA/WPA2 protocols that operate with this adapter.

### 2.3 Product Features

- Supports Windows XP, Vista, 7, 8, 8.1, 10
- Peak data transfer rate up to 300 Mbps with a 2T2R (2 x Tx / Rx) MIMO antenna
- Supports 802.11 b/g/n routers and hotspots over the 2.4 GHz frequency
- Simple driver installation with included Mini-CD or download from Cable Matters
- Supports one-button Wi-Fi Protected Setup (WPS)
- Optional MediaTek wireless utility features an extensive off-line help feature
- Utility supports Windows XP/Vista/7 advanced security profile settings
- Supports standard and advanced WEP/WPA/WPA2 security protocols
- Green LED link and status indicator

### 2.4 System Requirements

- Windows XP / Vista / 7 / 8 / 8.1 / 10 computer (32 or 64 bit)
- Available USB Port: USB 2.0 or 3.0 port
- Hard Disk Space: 45MB drive only/110MB driver and utility
- PC with minimum 1 GHz Pentium or compatible processor



# 3. Connection and Operation

# 3.1 Connection Diagram

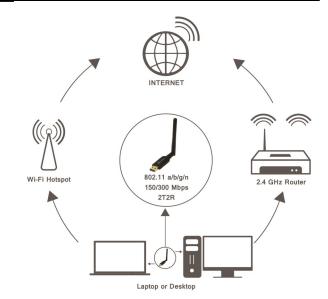
- 1) Install the driver and utility from the CD or download from www.cablematters.com/downloads
- 2) Plug in the adapter to a USB 2.0 or 3.0 port
- 3) Wait while your computer recognizes the hardware
- 4) Connect to a local wireless router or hotspot

### 3.2 Installation Checklist

 Computers without a CD drive can copy the contents onto a flash drive from another computer or download from:

### www.cablematters.com/downloads

- Compatible with a USB 2.0 or 3.0 port. A USB 1.x port is not recommended.
- Close all unnecessary programs and temporarily close your anti-virus software if it prevents the driver install
- Install the software drivers **BEFORE** plugging in the Wireless N300 adapter
- Be prepared to reboot your computer after the software driver installation
- Extensive off-line help guide is available when the MediaTek utility is installed
- MediaTek utility provides configuration options for profile settings and security encryption for XP and Vista
- Administrator access on your computer is required to install the software
- Installation requires the SSID (network) name, type of security encryption required, and the password
- Disable any other wireless access on your computer before connecting the adapter
- WPS Wi-Fi Protected Set-up is supported with the button on the side of the adapter and a compatible router
- WPS pin setup is supported with the MediaTek utility
- Do not connect the adapter through a USB hub
- A USB extension cable up to 3 feet can be connected after a successful installation
- Reboot your computer after the software driver installation
- Never disconnect the adapter while data is being transferred
- Use the 'Safe to Remove Hardware' feature whenever available (Windows XP/Vista/7)
- The adapter must be inserted in the computer in order to uninstall the software





### 3.3 Driver and Utility Installation

Install the driver software by clicking the Setup.exe application file in the Windows folder
 Drivers can be downloaded from www.cablematters.com/downloads
 DO NOT plug in the adapter until the software has finished installing, unless prompted
 If the application will not run, copy the contents to the desktop and rename the folder



2) The installation wizard provides the choice of installing the Windows drivers and MediaTek utility OR only the driver Install BOTH the drive and the utility for access to the most configuration options.
The utility is required to configure some security and profile settings in XP and older versions of Windows 7.
The utility provides configuration options for setting up an Access Point and includes a off-line help guide.



- 3) Follow the prompts from the installation wizard
- 4) Restart your computer after the installation is complete
- 5) Plug in the Wireless N300 Adapter after the computer is restarted

Your computer should detect the adapter and the green LED should blink

The adapter is now ready to be connected to a wireless network



- 3.3.1 WPS Quick Setup with Windows 8, 8.1, 10 (and newer versions of Windows 7)
- 1) Disable any internal wireless on your computer from the network icon in the system tray



2) Disable any other network adapters from the Control Panel to ensure proper installation of the adapter



- 3) Connect the Wireless N300 adapter (after installing the drivers)
- 4) Press the WPS button on the router or access point

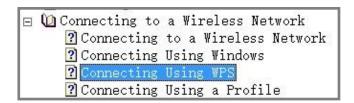
**NOTE**: Consult the documentation of your router for any special requirements

5) Press the WPS button on the adapter within 1 minute

### **WPS PIN SETUP**

WPS pin setup can only be configured from the utility

Use the left and right arrows to navigate



View the HELP instructions from the ? of the utility





### 3.3.2 Windows 8, 8.1, and 10 Configuration

1) Disable any internal wireless on your computer from the network icon in the system tray.



2) Disable any other network adapters from the Control Panel to ensure proper installation of the adapter



Click on the wireless icon in the Windows system tray to view the available networks
 Look for Wi-Fi 2, 3, etc. if you have previously installed other adapters



- 4) Enter the network security password and click 'Next"
- 5) Click 'Yes' to allow other devices to view your computer (recommended)
  The adapter should be connected and the green LED should blink



Consult the extensive HELP ? guide of the MediaTek utility if you are having trouble connecting to your network



Search for 'View and connect to available wireless networks' on windows.microsoft.com for more information



### 3.3.3 Windows 7 Configuration (older versions)

1) Disable any internal wireless network adapters on your computer from the Control Panel > Network and Internet > Network

Connections to ensure a proper installation



Install the software BEFORE connecting the adapter

DO NOT plug in the adapter until the software has finished installing, unless prompted

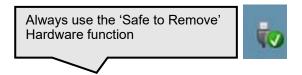
Open the MediaTek utility from the Windows notification area



- Click on the magnifying glass to view the available networks
- 4) The utility will detect your network security settings and request a password
- 5) Enter the password and click on the arrow to enter the information.



The adapter should connect automatically and the green LED should blink



Consult the extensive HELP ? guide of the MediaTek utility if you are having trouble connecting to your network



Search for 'View and connect to available wireless networks' on **windows.microsoft.com** for more information



### 3.3.4 Windows XP and Vista Configuration

- 1) Disable any internal wireless or network adapters
- 2) Install **BOTH** the driver and utility





DO NOT plug in the adapter until the software has finished installing, unless prompted

3) Open the MediaTek utility from the desktop or Windows notification area



Click on the magnifying glass to view the available networks

The utility will detect your security settings and request a password

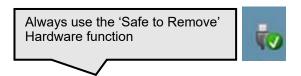


5) Create a profile name for the network connection to connect on start-up Click on the arrow after entering the SSID name



The adapter should be connected and the green LED should blink

**NOTE**: XP requires the latest Service Pack to use this adapter. The Microsoft Zero Configuration Tool cannot connect to networks with advanced security. Use the MediaTek utility for configuration.



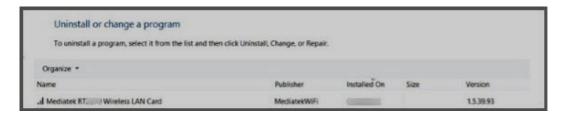
Consult the extensive HELP ? guide of the MediaTek utility if you are having trouble connecting to your network





# 3.3.5 Uninstalling the Drivers and Utility

The software can be uninstalled to remove it permanently.



- Windows 8/8.1/10 Control Panel > All Control Panel Items > Programs and Features > Uninstall or change a program
- Windows Vista/7. Click 'Start', click 'Control Panel', click 'Programs', and then click 'Programs and Features'
- Windows XP: Click 'Start', click 'Control Panel', and then double-click 'Add or Remove Programs'

NOTE: You will be prompted to insert the adapter to complete the uninstall process



### 4. TROUBLESHOOTING

- My computer cannot read the CD: Locate the CD in Explorer, copy the contents to the desktop, and rename the file
- My computer does not recognize the adapter: Install the software before connecting the adapter. Check that the green LED is active. Try a different USB port. Do not connect through a USB hub.
- Search in the Control Panel > Device Manager > Network adapters to see if the computer recognizes the 802.11n USB Wireless LAN card



Update Driver Software...

Scan for hardware changes

Disable

File Action View Help

✓ 

MININT-T0DL0V1

Batteries

☐ Computer
☐ Disk drives
☑ Display adapters
☐ Human Interface Devices

Monitors

Portable Devi

Print queues

Imaging devices

Keyboards

Network adapters
802.11n USB Wirel

Mice and other pointing devices

Audio inputs and outputs

- Search in the Control Panel > Network and Sharing Center to see if the computer recognizes the adapter. Click on Troubleshoot problems
- Check with your computer manufacturer for updated USB drivers
- Set up a profile with the Mediatek utility to allow a computer with XP or 7 to sign-on the adapter when the computer starts
- Check Microsoft support for troubleshooting networks adapters
- A wireless USB mouse or keyboard dongle may cause interference. Test with a nonadjacent USB port.
- Disable all other wireless access or network adapters on your computer
- Unplug the adapter, reboot the computer, and reconnect the adapter
- Consult the off-line help guide ? of the Mediatek utility
- My connection speed is too slow: Check the wireless speed of the router or public hotspot
   Check that nothing is blocking the adapter antenna

Check the strength of the wireless signal in Windows or the Mediatek utility



# Contact <a href="mailto:support@cablematters.com">support@cablematters.com</a>

with a description of your computer model and Windows OS version



### 5. TECHNICAL SPECIFICATIONS

USB Interface: USB 2.0 Type A male

Host OS Support: Windows XP/Vista/7/8/8.1/10

Hard Disk Space: 45 MB driver/110 MB driver and utility

Wi-Fi Network Compatibility: 2.4 GHz 802.11 b/g/n
Wireless Transmission 2T2R: 300 Mbps @ 2.4 GHz
LED Indicator: Green (link and status)

Transmit Power: 14 dBm

Transmit Range: Up to 320 Feet

Dimensions USB Adapter (LxWxD): 2.5 x 0.9 x 0.4 inches/ 0.35 ounces

Dimensions Detachable Antenna (LxW): 4.25 x 0.25 / 0.35 ounces

Compliance: FCC, C E, RoHS Warranty: Limited One-Year

**Note**: Specifications are subject to change without notice

### 6. WARRANTY AND SUPPORT

### 6.1 Customer Support and Contact Information

Cable Matters offers lifetime technical support as an integral part of our commitment to provide industry leading solutions.

Email us with any questions at **support@cablematters.com**.

### 6.2 Warranty Information

This product is backed by a limited one-year warranty. In addition, Cable Matters warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replaced with equivalent products at our discretion. The warranty covers parts and labor costs only. Cable Matters does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

### 6.3 Limitation of Liability

In no event shall Cable Matters Inc. (including their officers, directors, employees or agents) be liable for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of, or related to the use of this product exceeding the actual price paid for the product. Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

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