

**Lenovo**

RTL8822CE  
WLAN/Bluetooth  
Combo Module



# Lenovo RTL8822CE WLAN/Bluetooth Combo Module User Guide

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**Lenovo**

## Lenovo RTL8822CE WLAN/Bluetooth Combo Module



## Description

**802.11ac Wave 2 Compliant with MU-MIMO, WiFi+Bluetooth 5.0, M.2 Module (WiFi 5), RTL8822CE, 2T2R**

- STANDARD
- WI-FI 802.11ac/a/b/g/n
- ChipsetRealtek RTL8822CE
- Host Interface
- WLAN: PCIe
- RADIO
- Antenna2 x IPEX MHF4 connectors
- Operating Frequency802.11ac/a/b/g/n ISM Band
- 2.412GHz~2.484GHz
- 5.150GHz~5.850GHz
- Subject to local regulations

## MODULATIONS

- 802.11bDSSS (DBPSK, DQPSK, CCK)
- 802.11gOFDM (BPSK, QPSK, 16-QAM, 64-QAM)
- 802.11nOFDM (BPSK, QPSK, 16-QAM, 64-QAM)
- 802.11aOFDM (BPSK, QPSK, 16-QAM, 64-QAM)
- 802.11acOFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)



## POWER & SENSITIVITY

**WiFiPower – TX (± 2dBm)Sensitivity – RX**

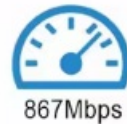
- 11b @ 11Mbps18dBm≤ -85dBm
- 11g @ 54Mbps17dBm≤ -74dBm
- 11gn HT20 @ MCS 716dBm≤ -70dBm
- 11gn HT40 @ MCS 716dBm≤ -67dBm
- 11a @ 54Mbps17dBm≤ -68dBm
- 11an HT20 @ MCS 716dBm≤ -67dBm

- 11an HT40 @ MCS 716dBm≤ -64dBm
- 11ac VHT80 @ MCS 914dBm≤ -54dBm

## RTL8822CE WiFi CARD



ThinkPad  
FRU:5W10V25795



### POWER CONSUMPTION

- Continue TX606mA
- Continue RX302mA

### ENVIRONMENTAL

- Operating VoltageDC 3.3V
- Temperature Range0~ 70°C (Operating)-40 ~ 80°C (Storing)
- Humidity (Non-Condensing)5 ~ 90% (Operating)5 ~ 90% (Storing)

### SIZE

- Dimension (MM)30mm(±0.15mm) x 22mm(±0.15mm) x 2.0mm(±0.15mm)
- Weight:2.5g

### SOFTWARE

- DriverWindows 10/ Linux / Android
- Security64/128-bits WEP, WPA, WPA2, WPA3, 802.1x
- **Chips et:** Realtek RTL8822CE
- **Antenna:** 2 x IPEX MHF4 connectors, 2T2R
- **Interface:** PCIe: WLAN; USB: Bluetooth
- Output Power up to 18dBm
- **Support:** Windows 10, Linux, Android

### For Lenovo E460 E465 E470 E475 E560 E570

RTL8822CE is an 802.11ac/a/b/g/n Dual -Band WiFi+Bluetooth M.2 (Key A, E ) module (WiFi 5) based on Realtek RTL8822CE chipset, It supports Multiple drivers (Android/ Windows/ Linux) for various platform. This module supports MU-MIMO two streams on dual band 2.4GHz or 5GHz operating and incorporates the latest Bluetooth 5.0, the data rate up to 867Mbps on AC mode. The RTL8822CE is designed by the M.2 2230 slot type form factor.

The RTL8822CE uses using highly integrated single-chip MIMO (Multiple In, Multiple Out) wireless local area

network (WLAN) RTL8822CE solution to let users enjoy the high digital content through the latest wireless technology without using cables and cords. RTL8822CE combines a WLAN MAC, a 2T2R capable WLAN baseband, and RF in a single chip. RTL8822CE module enables a high-performance, cost-effective, low-power, compact solution that easily fits in the PCI Express and USB M.2 2230 A-E Key module which is Incorporated with advanced security encryption WEP, WPA, WPA2, WPS, WPA3, and 802.1x, it will prevent user's devices from malicious attacks.



## Specifications

- High-concerned Chemical None
- Wi-Fi Supported Frequency 2.4G & 5G
- Lan Transmission Rate 1000M Ethernet
- Applicable Network Type Gigabit Ethernet
- Wireless Protocol 802.11n,802.11a/g,802.11ac
- Certification CE,FCC
- Model Number RTL8822CE
- Application Laptop
- Interface Type NGFF
- Adapter Socket PCI-E
- Kind Internal
- Transmission Rate 867Mbps
- typewrites
- Brand Name WDXUN

## FAQs

Why is the Lenovo RTL8822CE WLAN/Bluetooth Combo Module not detecting Wi-Fi networks?

The Lenovo RTL8822CE module may not detect networks if Wi-Fi is disabled in settings, the router is not broadcasting, or the module's drivers are outdated. Update the drivers and ensure Wi-Fi is enabled.

Why does the Lenovo RTL8822CE WLAN/Bluetooth Combo Module drop Wi-Fi connections frequently?

Wi-Fi disconnections on the Lenovo RTL8822CE can occur due to signal interference or outdated drivers. Move closer to the router and update the module's drivers to improve stability.

Why is the Lenovo RTL8822CE Bluetooth not discovering devices?

If the Lenovo RTL8822CE Bluetooth cannot find devices, ensure Bluetooth is enabled on both devices, restart the Bluetooth service, and update the module's drivers to resolve the issue.

Why is there a yellow exclamation mark on the Lenovo RTL8822CE WLAN/Bluetooth Combo Module in Device Manager?

A yellow exclamation mark indicates a driver or hardware issue. Reinstall or update the drivers for the Lenovo RTL8822CE module to fix this.

Why doesn't the Lenovo RTL8822CE WLAN/Bluetooth Combo Module connect to 5 GHz Wi-Fi?

The Lenovo RTL8822CE module may fail to connect to 5 GHz if the router is not broadcasting this band or if the driver is incompatible. Ensure the router supports 5 GHz and update the module's driver.

Why is Bluetooth audio lagging with the Lenovo RTL8822CE module?

Bluetooth audio lag on the Lenovo RTL8822CE module could be due to interference or compatibility issues. Disconnect other Bluetooth devices and update the driver to minimize lag.


Why can't I enable Bluetooth on Windows with the Lenovo RTL8822CE WLAN/Bluetooth Combo Module?

If Bluetooth cannot be enabled, check the BIOS settings to ensure the Lenovo RTL8822CE module is activated and reinstall the Bluetooth driver to restore functionality.

Why is Wi-Fi slow on the Lenovo RTL8822CE WLAN/Bluetooth Combo Module?

Slow Wi-Fi on the Lenovo RTL8822CE module could be caused by outdated drivers or network congestion. Reset network settings and update the module's drivers for better performance.

Documents / Resources

	<a href="#">Lenovo RTL8822CE WLAN/Bluetooth Combo Module</a> [pdf] User Guide QCNCM825, J9C-QCNCM825, J9CQCNCM825, RTL8822CE WLAN Bluetooth Combo Module , RTL8822CE, WLAN Bluetooth Combo Module, Bluetooth Combo Module, Combo Module, Module
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References

- [Anatel — Agência Nacional de Telecomunicações](#)
- [Lenovo Official US Site | Laptops, PCs, Tablets & Servers | Lenovo US](#)
- [Lenovo EU Declaration of Conformity Compliance Information | Lenovo US](#)
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[https://manual.tools/?p=15146061#MTA0Ljl4LjIwMi4xNzk7Ozs7" ref="nofollow">User Manual](https://manual.tools/?p=15146061#MTA0Ljl4LjIwMi4xNzk7Ozs7)

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