

CONNECTING A "WINDOWS 11" COMPUTER TO A Wi-Fi 6E ROUTER

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SUMMARY

Wi-Fi 6E is the the future of wireless networking in newly-allocated 6 Gigahertz radio frequency band. If you want to try out this technology advancement with a computer that is running "Windows 11", here is what you need to do.

TOPICS

- Connecting to Wi-Fi 6E from a "Windows 11" computer
- Requirements
 - Intel AX210 Chip
 - Intel's AX210 driver
 - Wi-Fi 6E-capable Router

CONNECTING TO Wi-Fi 6E FROM A "WINDOWS.." COMPUTER

- If you have a computer running one of the "Windows 11", AND your computer has a Wi-Fi adapter with the Intel AX210 chip, AND you install the Intel's AX210 driver, then you can connect to Wi-Fi 6E routers provided by Linksys, Asus, or Netgear

REQUIREMENTS

- Requirements for connecting Windows 10 or Windows 10 21H2 Insiders Preview or Windows 11 Insider Preview to a Wi-Fi 6E-capable router:
 - ❑ Requirement One:
Wi-Fi Adapter with an Intel AX210
 - ❑ Requirement Two:
Intel's AX210 driver
 - ❑ Requirement Three:
Wi-Fi 6E-Capable Router

REQUIREMENT ONE:

Wi-Fi ADAPTER WITH AN INTEL AX810 CHIP

- To connect a "Windows 10" or "Windows 11" computer to a Wi-Fi 6E, the "Windows.." computer has to have a Wi-Fi adapter with an Intel AX210 Integrated Circuit

REQUIREMENT ONE: Wi-Fi ADAPTER WITH AN INTEL AX810 CHIP (continued)

- Three Ways To Obtain a AX210 Integrated Circuit:
PCIe Adapter
or
M.2 Slot A or Slot C Adapter
or
Motherboard that has an integrated Wi-Fi adapter with a AX210 chip

REQUIREMENT TWO: INTEL AX210 DRIVER FROM "dong.knows.com"

- Download and install the driver for the AX210 chip from <https://www.intel.com/content/www/us/en/products/sku/204836/intel-wifi-6e-ax210-gig/downloads.html>

REQUIREMENT THREE: A Wi-Fi 6E-CAPABLE ROUTER

- As of October 18, 2021, 6 router models are capable of operating with Wi-Fi 6E (at 6 GigaHertz frequencies):
These 6 models of routers are described at <https://www.androidcentral.com/best-wi-fi-6e-router>

REQUIREMENT THREE: Wi-Fi 6E-CAPABLE ROUTER (continued)

- We (the members of the Tucson Computer Society) tested Wi-Fi 6E capable routers from all three of these manufacturers:

Linksys

Asus

and

Netgear

REQUIREMENT THREE: Wi-Fi 6E-CAPABLE ROUTER (continued)

The specific models of routers that we tested were:

- ❑ Linksys Hydra Pro 6E Tri-Band Mesh WiFi 6E Router
- ❑ Asus ROG Rapture GT-AX11000 Router
- ❑ Netgear Nighthawk AXE11000 WiFi Router (RAXE500)

REQUIREMENT THREE: Wi-Fi 6E-CAPABLE ROUTER (continued)

Details for these three models of routers are available at:

- <https://www.linksys.com/us/wireless-routers/mesh-routers/linksys-hydra-pro-6e-tri-band-mesh-wifi-6e-router/p/p-mr7500/>
- <https://rog.asus.com/networking/rog-rapture-gt-ax11000-model/>
- <https://www.netgear.com/home/wifi/routers/raxe500/>