

CONNECTING A "WINDOWS 10" 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 10" computer, here is what you need to do.

TOPICS

- Connecting to Wi-Fi 6E from a "Windows 10" computer
- Requirements
 - Intel AX210 Chip
 - Dong Knows' Intel AX210 driver
 - Wi-Fi 6E-capable Router

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

- If you have a Windows 10 computer running the current 21H1 "Feature Upgrade", AND your computer has a Wi-Fi adapter with the Intel AX210 chip, AND you install the Intel AX210 Driver from "dong.knows.com", then you can only connect with one of the two models of Linksys Wi-Fi 6E-capable routers. However you will be unable to connect to Wi-Fi 6E-capable routers provided by Asus or Netgear.

CONNECTING TO Wi-Fi 6E FROM A LINKSYS COMPUTER (continued)

- IF you have one of Linksys' two models of Wi-Fi 6E-capable routers and you install the Intel AX210 Driver from "dong.knows.com", then you can connect to Wi-Fi 6E routers provided by Linksys, Asus, or Netgear

REQUIREMENTS

- Requirements for connecting "Windows 10" to a Wi-Fi 6E-capable router:
 - ❑ Requirement One:
Wi-Fi Adapter with an Intel AX210
 - ❑ Requirement Two:
Intel AX210 Driver From
"dong.knows.com"
 - ❑ Requirement Three:
Wi-Fi 6E-Capable Router

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

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

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 22.45.1.1 driver for the AX210 chip from <https://dongknows.com/wi-fi-6e-6ghz-intel-ax210-driver/#how-to-install-the-intel-ax210-driver-that-unlocks-the-6ghz-band>

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

- As of August 11, 2021,
if you have any version of the AX210
driver that is earlier or later than the
22.45.1.1
it will not work in any version of
"Windows 10".

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

- As of August 25, 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/>

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

The Linksys Hydra Pro 6E Tri-Band Mesh
WiFi 6E Router

was able to make a Wi-Fi 6E connection
to a Windows 10 Home version 21H1
computer if this computer had an Intel
AX210-based Wi-Fi adapter and the Dong
Knows driver for the AX210

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

The Asus ROG Rapture GT-AX11000 Router

was unable able to make a Wi-Fi 6E connection to a Windows 10 Home version 21H1 computer even though this computer that had an Intel AX210-based Wi-Fi adapter and the Dong Knows driver for the AX210.

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

The Netgear Nighthawk AXE11000 WiFi Router (RAXE500)

was unable able to make a Wi-Fi 6E connection to a Windows 10 Home 20H1 computer even though this computer that had an Intel AX210-based Wi-Fi adapter and the Dong Knows driver for the AX210.