

# ADDING AN EXTERNAL GIGABIT ETHERNET ADAPTER TO REPAIR OR IMPROVE A COMPUTER

by Francis Chao

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An International  
Association of Technology  
& Computer User Groups

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# SUMMARY

You can add external USB Gigabit Ethernet adapter to make a cost-effective temporary or permanent repair or improve to a computer

# TOPICS

- External USB Gigabit Ethernet adapters--A Useful Add-on
- Installing USB Gigabit Ethernet adapters
- Examples of USB Gigabit Ethernet adapters
- Placing an external USB Gigabit Ethernet adapter into service

# EXTERNAL USB GIGABIT ETHERNET ADAPTERS--A USEFUL ADD-ON

- If the Ethernet adapter that came with your computer has failed or has slowed down to a crawl, you can add an external USB Ethernet adapter to resolve the problem

# EXTERNAL USB GIGABIT ETHERNET ADAPTERS

--A USEFUL ADD-ON (continued)

- If your computer's connection suddenly fails or become real slow and your computer is connected by means of an Ethernet network adapter AND the other computers or devices on your home or business network did not also experience an Internet slowdown, you can try installing an external USB Gigabit Ethernet adapter. 6

# EXTERNAL USB GIGABIT ETHERNET ADAPTERS

--A USEFUL ADD-ON (continued)

- To test the Internet download and upload speeds on each of your computers, open a Web browser, and run the test at <http://speedtest.net> which uses the very reliable "Ookla" system for testing Internet download and upload speeds.

# INSTALLING EXTERNAL USB GIGABIT ETHERNET ADAPTERS

- You can install a USB 3-based Gigabit Ethernet adapter to replace or improve upon the existing Ethernet adapter in your computer. Do not buy USB 2-based Ethernet adapters since they are too slow. Do not buy obsolete Fast Ethernet Adapters (which only operate at 100-Megabit per second nominal speeds)



# INSTALLING EXTERNAL USB GIGABIT ETHERNET ADAPTERS (continued)

- Most USB 3-based Gigabit Ethernet adapters use the ASIX AX88179 chip set. The manufacturers that employ this chip set include: "Amazon Basics", "Cable Matters", "Rankie", "StarTech" and "Trendnet".

# INSTALLING EXTERNAL USB GIGABIT ETHERNET ADAPTERS (continued)

- Do not buy any USB 3-based Gigabit Ethernet adapters that use ASIX chip sets with model numbers that are lower-numbered than the AX88179 chip set, since they are now obsolete.

# EXAMPLES OF EXTERNAL USB GIGABIT ETHERNET ADAPTERS

- The Trendnet USB 3.0 to Gigabit Ethernet LAN Wired Network Adapter model TU3-ETG is a solid performer for us:



## TRENDnet USB 3.0 to Gigabit Ethernet LAN Wired Network Adapter for Windows, Mac, Chromebook, Linux, and Specific Android Tablets, ASIX AX88179 Chipset, TU3-ETG

by TRENDnet



564 customer reviews | 65 answered questions

Price: **\$18.46** & **FREE Shipping** on orders over \$49. [Details](#)

**In Stock.**

**Want it Friday, Aug. 26?** Order within **14 hrs 25 mins** and choose **One-Day Shipping** at checkout. [Details](#)

Ships from and sold by Amazon.com. Gift-wrap available.

Capacity: **USB 3.0**

USB 2.0

**USB 3.0**

Model: **Gigabit**

10/100 Mbps Ethernet

3-Port Hub with Gigabit Port

**Gigabit**



# TRENDnet USB 3.0 to Gigabit Ethernet LAN Wired Network Adapter for Windows, Mac, Chromebook, Linux, and Specific Android Tablets, ASIX AX88179 Chipset, TU3-ETG

by [TRENDnet](#)



[564 customer reviews](#) | [65 answered questions](#)

Price: **\$18.46** & **FREE Shipping** on orders over \$49. [Details](#)

**In Stock.**

**Want it Friday, Aug. 26?** Order within **14 hrs 24 mins** and choose **One-Day Shipping** at checkout. [Details](#)

Ships from and sold by Amazon.com. Gift-wrap available.

Capacity: **USB 3.0**

USB 2.0

**USB 3.0**

# EXAMPLES OF EXTERNAL USB GIGABIT ETHERNET ADAPTERS (continued)

- The SIIG model JU-NE0621-S2 which is also known as the model BSN2611X uses a Realtek RTL8153 chip set.

We have not seen any differences in performance between this Realtek device and the ones that use the more prevalent ASIX AX88179 chip set.



## SIIG SuperSpeed USB 3.0 to RJ45 Gigabit Ethernet 10/100/1000 Mbps LAN adapter for Windows and Mac systems - White (JU-NE0621-S2)

by SIIG



101 customer reviews | 13 answered questions

Price: ~~\$19.99~~

Sale: **\$14.99** & **FREE Shipping** on orders over \$49. [Details](#)

You Save: **\$5.00 (25%)**

**In Stock.**

**Want it Friday, Aug. 26?** Order within **1 hr 13 mins** and choose **Two-Day Shipping** at checkout. [Details](#)

Sold by [e-TekDepot](#) and [Fulfilled by Amazon](#).

Color: **white**



- Adds a Gigabit LAN port (RJ45) to your laptop or desktop computer through USB 3.0 connection
- Compact and light weight design makes it a perfect LAN accessory while on-the-go, provides instant wired Ethernet connection
- Perfect companion for Apple Macbooks, Microsoft Surface Windows tablets, Ultrabooks and laptops with a defective, slower 10/100 Mbps or lack of an Ethernet port
- Bus-powered external adapter - easy external installation to replace or upgrade your Ethernet connection, powered directly from the USB bus. Built-in power and data diagnostic LEDs.
- Supports Wake-on-LAN. BUY5SAVE5%





## SIIG SuperSpeed USB 3.0 to RJ45 Gigabit Ethernet 10/100/1000 Mbps LAN adapter for Windows and Mac systems - White (JU-NE0621-S2)

by SIIG



101 customer reviews | 13 answered questions

Price: ~~\$19.99~~

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You Save: **\$5.00 (25%)**

**In Stock.**

**Want it Friday, Aug. 26?** Order within **1 hr 12 mins** and choose **Two-Day Shipping** at checkout. [Details](#)

Sold by [e-TekDepot](#) and [Fulfilled by Amazon](#).

Color: **white**

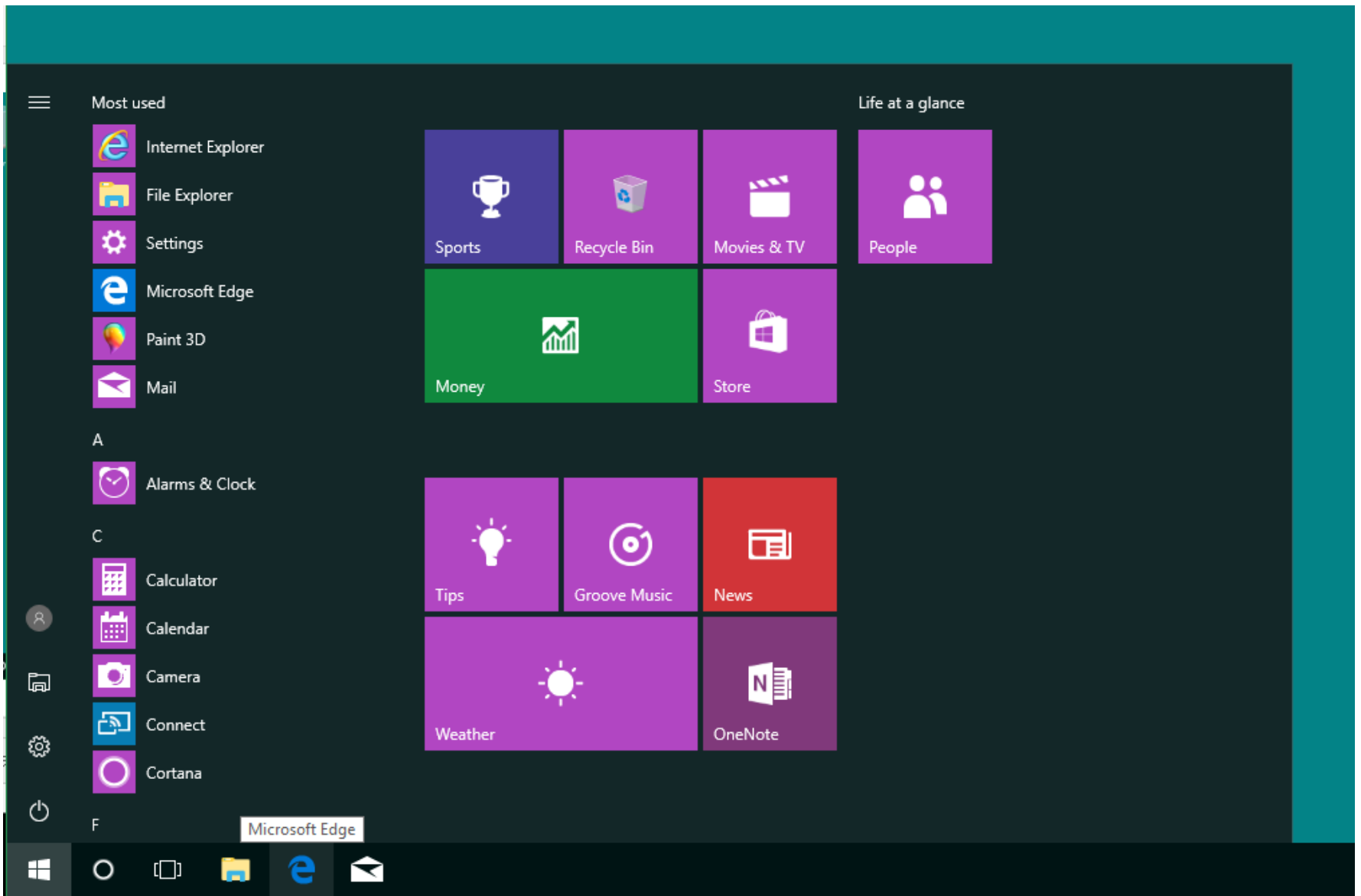


# PLACING AN EXTERNAL USB GIGABIT ETHERNET ADAPTER INTO SERVICE:

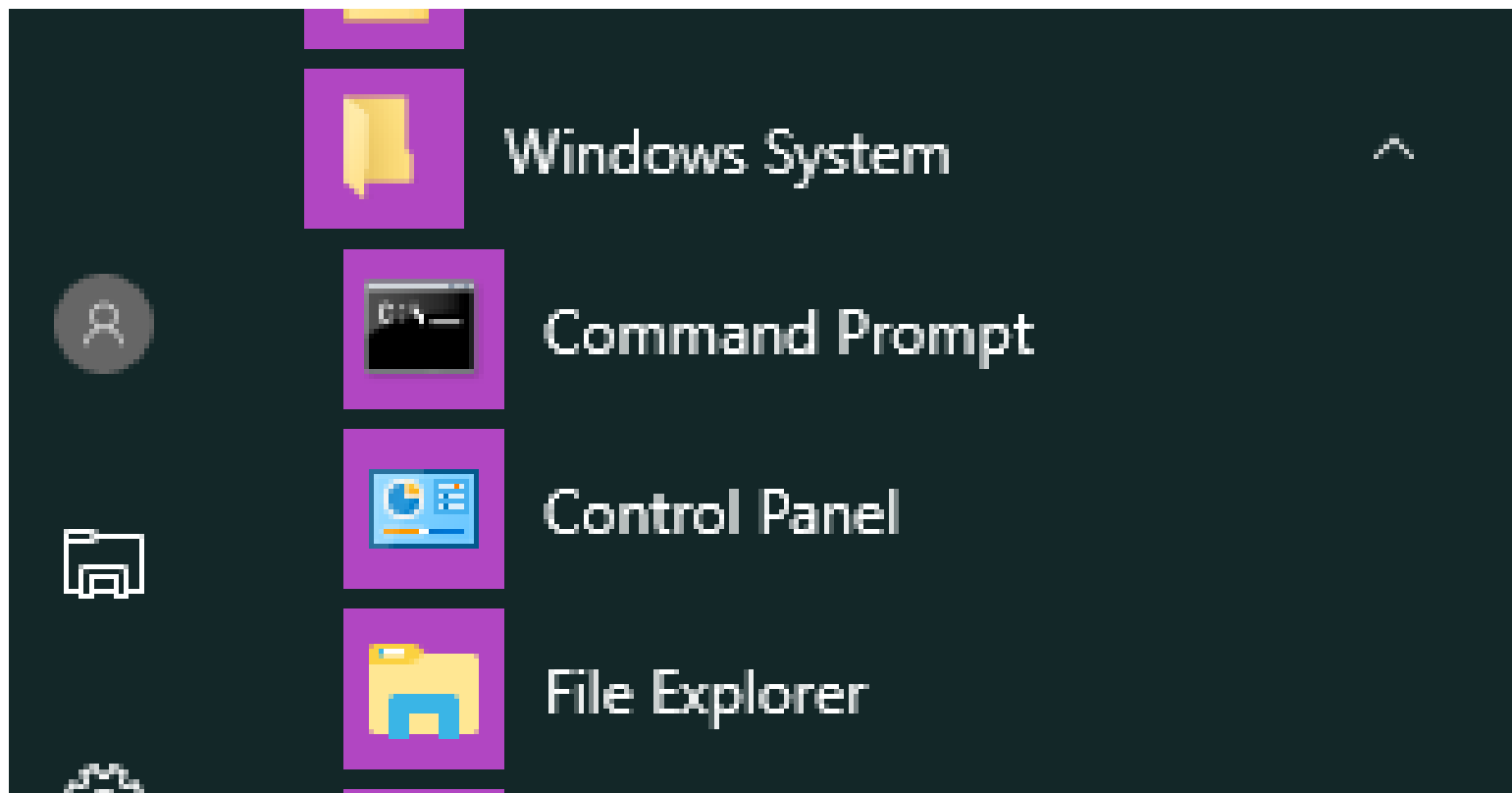
- Install the USB Gigabit Ethernet Adapter
- Go to the Windows "Control Panel"
- Go to "Network and Sharing Center"
- Go to "Change adapter settings"
- Right-click on the USB Gigabit Ethernet Adapter and make sure that it is "Enabled"
- Disable any other Ethernet Adapters in "Network Connections"



Recycle Bin





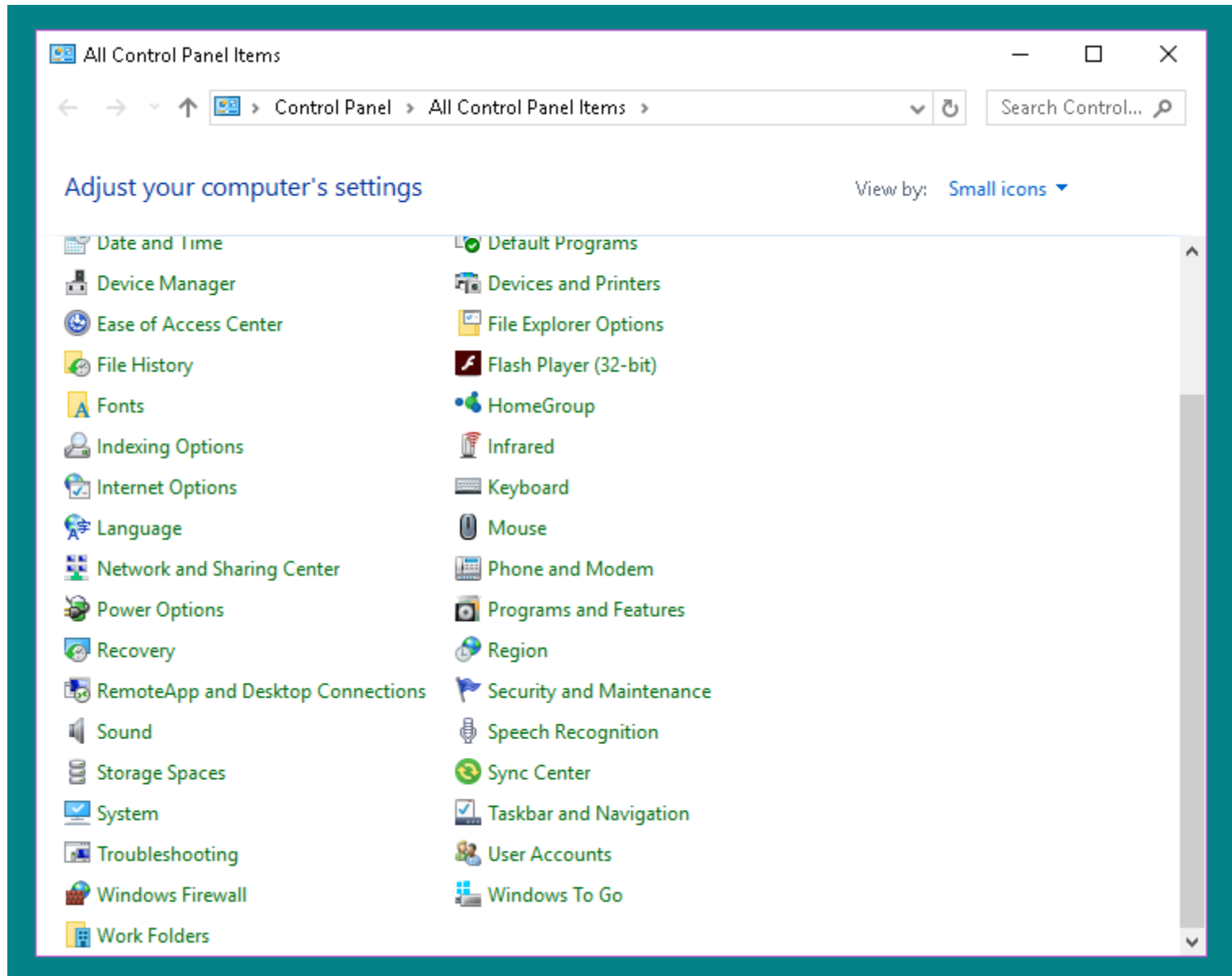


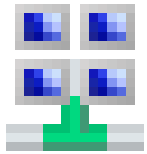


# Control Panel









# Network and Sharing Center



Network and Sharing Center

Navigation: < > > < < All Control Panel Items > Network and Sharing Center

Search Control...

Control Panel Home

Change adapter settings



Change advanced sharing settings

### View your basic network information and set up connections

View your active networks

<b>Network 27</b> Private network	Access type: Internet HomeGroup: Ready to create Connections: Ethernet0
<b>Network 13</b> Public network	Access type: Internet Connections: usb_xhci

Change your networking settings

-  [Set up a new connection or network](#)  
Set up a broadband, dial-up, or VPN connection; or set up a router or access point.
-  [Troubleshoot problems](#)  
Diagnose and repair network problems, or get troubleshooting information.

See also

- HomeGroup
- Infrared
- Internet Options
- Windows Firewall



Network and Sharing Center



<< All Control Par

Control Panel Home

Change adapter settings

Change advanced sharing  
settings

Change adapter settings

## Network Connections

  << Network and Internet > Network Connections

Organize ▼



Ethernet0  
Network 27  
Intel(R) 82574L Gigabit Network C...



usb\_xhci  
Network 13  
ASIX AX88179 USB 3.0 to Gigabit E...

## Network Connections

← → ↕ ↑ << Network and Internet >> Network Connections

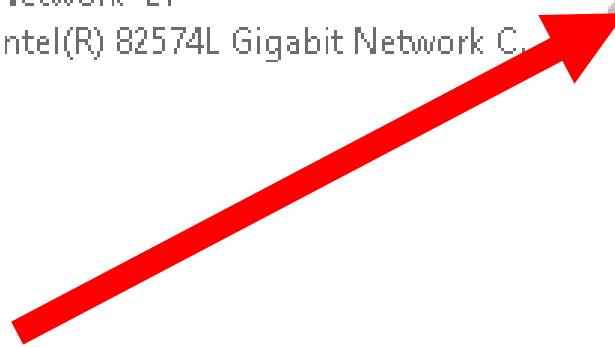
Organize ▾

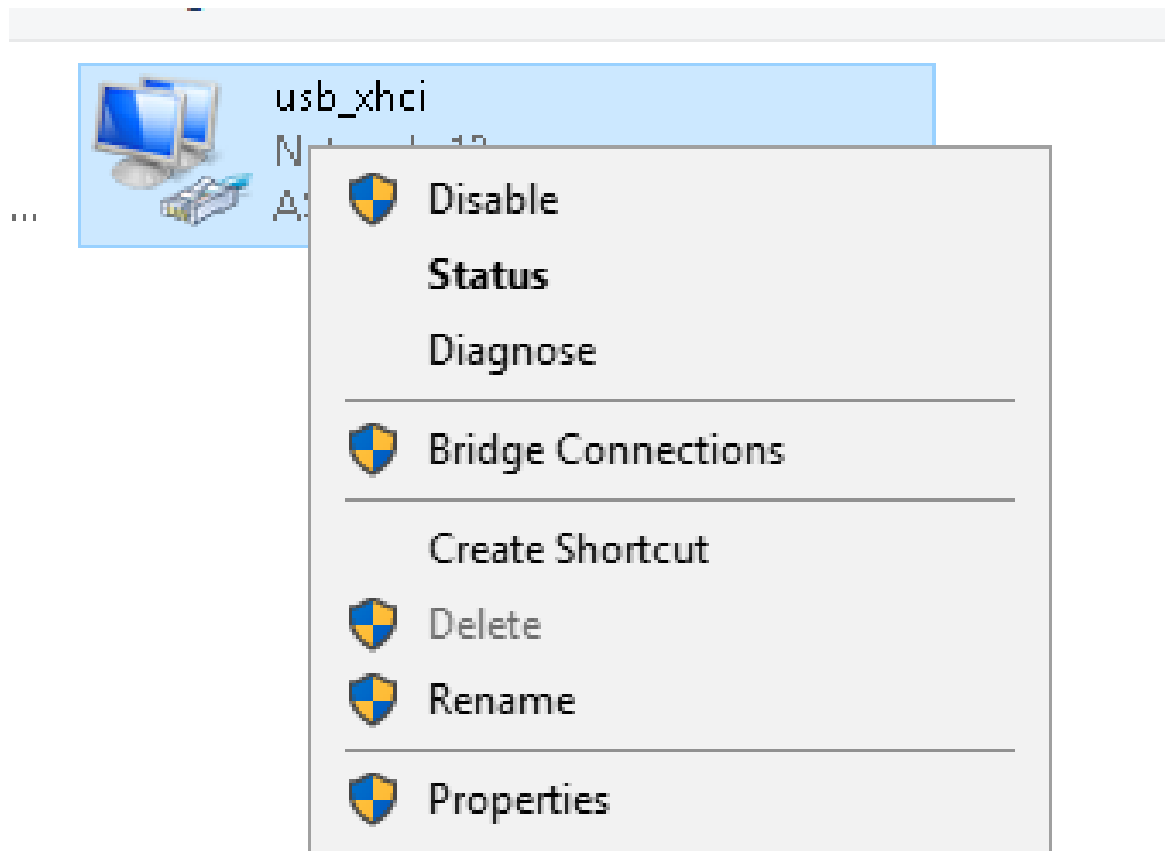


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## Network Connections

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