

How to Identify Whether a USB-C Host Port Supports USB4® or Thunderbolt™

Not all USB-C ports support USB4® or Thunderbolt™, even though they use the same physical connector. The easiest way to determine capability is by checking the symbol or speed marking next to the USB-C port on your device.

Indicators of USB4 / Thunderbolt Support

A USB-C port likely supports USB4 and/or Thunderbolt if it is marked with any of the following:

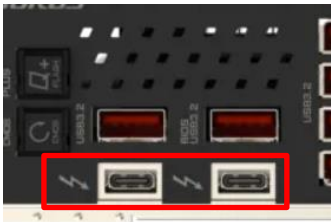
- **Lightning bolt icon**
Indicates Thunderbolt™ support (Thunderbolt 3 or 4), which also implies USB4 compatibility.
- **USB4 logo**
Explicitly indicates USB4® support.
- **“40Gbps USB” marking**
USB4 and Thunderbolt both operate at up to 40 Gbps, making this a strong indicator of support.

Indicators of No USB4 / Thunderbolt Support

If a USB-C port is labeled with any of the following, it typically does not support USB4 or Thunderbolt:

- **USB 3.2**
- **10Gbps**
- **20Gbps (USB 3.2 Gen 2x2)**

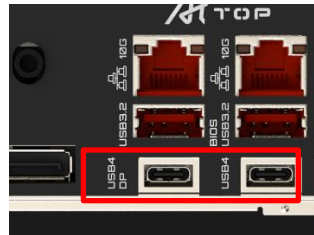
Desktop Motherboard



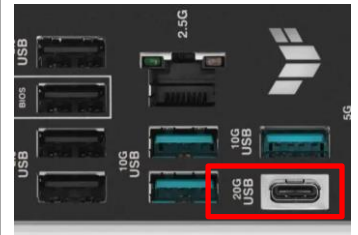
Support



Support



Support

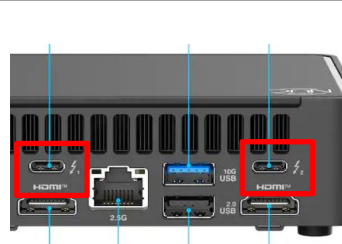


Not Support

Mini PC



Support



Support

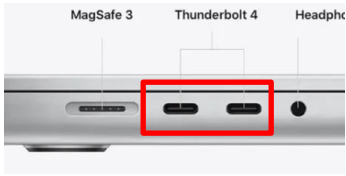


Support



Not Support

Laptop



Support



Support



Not Support

USB4/Thunderbolt PCIe Adapter



Support



Support



Support



Support

Important Notes

- USB-C connector shape alone does not define capability.
- Some systems may support USB4 but omit clear markings—always verify with the manufacturer's specifications if unsure.