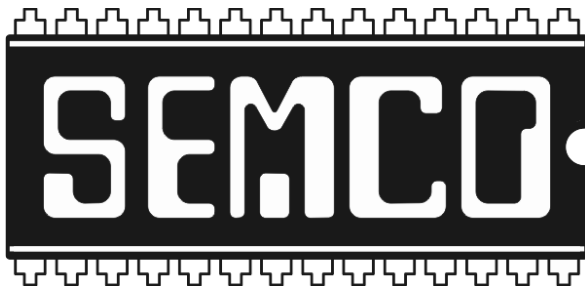


2-USB ADAPTERS TO CONNECT A DRIVE TO A COMPUTER

by Francis Chao
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Web location for this
presentation:

<http://aztcs.apcug.org>

Then click on "Meeting Notes"

SUMMARY

The various types of drives that you can connect via USB require differing types of USB adapters. These adapters are a important for increasing your chances of recovering data from a failed hard drive or SSD.

USB ADAPTERS FOR THE VARIOUS TYPES OF DRIVES

- Powered USB adapters for spinning 3.5-inch hard drives, spinning 2.5-inch hard drives, 2.5-inch SATA SSDs, and internal DVD/CD/Blu-ray drives
- Unpowered USB adapters for spinning 2.5-inch hard drives and 2.5-inch SATA SSDs
- Unpowered USB enclosures, extenders, and coolers for SATA M.2 SSDs
- Unpowered USB enclosures, extenders, and coolers for NVME M.2 SSDs

POWERED USB DRIVE ADAPTERS

- Powered USB drive adapters are versatile since they can connect spinning 3.5-inch hard drives, spinning 2.5-inch hard drives, 2.5-inch SATA SSDs, and internal DVD/CD/Blu-ray drives

POWERED USB DRIVE ADAPTERS (continued)

- <https://www.amazon.com/Tripp-Lite-SuperSpeed-Adapter-U338-06N/dp/B01N0VKR6L/>
- This model of USB drive adapter is very versatile: In some situations, it can even be used to attach to a hard drive that is mounted inside a computer case.



Tripp Lite USB 3.0 SuperSpeed to SATA/IDE Adapter w/Built-in USB Cable 2.5in / 3.5in / 5.25in Hard Drives (U338-06N)

[Visit the Tripp Lite Store](#)

4.5 ★★★★★ 228 ratings

| [34 answered questions](#)

-14% \$32⁸²

Typical price: ~~\$38.24~~ ⓘ

With **Amazon Business**, you would have **saved \$306.28** in the last year. [Create a free account](#) to save up to 10% today.

Not eligible for Amazon Prime. Available with

POWERED USB DRIVE ADAPTERS (continued)

- https://www.amazon.com/AGPtek-Drive-Adapter-Converter-External/dp/B00BIE996S/ref=sr_1_13?crid=1FYL6HB5UUKCI
- This model of USB drive adapter is also very versatile but it only runs at USB 2.0 speeds



Roll over image to zoom in

AGPTEK® SATA/PATA/IDE
Drive to USB 2.0 Adapter
Converter Cable for Hard
Drive Disk HDD 2.5" 3.5",
Compatible with USB
1.1/2.0/3.0, with External
AC Power Adapter Included

[Visit the AGPTEK Store](#)

4.3 ★★★★★ ∨ 4,750 ratings

| [132 answered questions](#)

\$16⁹⁹

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[Terms](#)

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POWERED USB DRIVE ADAPTERS (continued)

- <https://www.amazon.com/Evercool-Wheel-Cooler-Silver-HD-CW-SR/dp/B07FDW4BNX/>
- These coolers help keep a hard drive from getting too hot when a USB adapter is used, since a hard drive that connects by means of a USB drive adapter usually ends up outside of the fans of a computer case



Evercool Cool Wheel 3.5" Hard Drive Cooler Silver Cover Red Fan HD-CW-SR

Brand: Evercool

\$12⁰⁰

Eligible for Return, Refund or Replacement
within 30 days of receipt ▾

Brand	Evercool
Voltage	12 Volts
Noise Level	23 dB
Material	Aluminum,Silver



[Report incorrect product information.](#)

UNPOWERED USB ADAPTERS FOR SPINNING 2.5-INCH HARD DRIVES AND 2.5-INCH SATA SSDS

- Unpowered USB drive adapters are usually less expensive than powered USB drive adapters but they cannot be used with 3.5-inch hard drives

UNPOWERED USB ADAPTERS FOR SPINNING 2.5-INCH HARD DRIVES AND 2.5-INCH SATA SSDS (continued)

- <https://www.amazon.com/StarTech-com-USB-SATA-Adapter-USB31CSAT3CB/dp/B0133F30R8/>
- This unpowered USB drive adapter has a USB-C plug:



StarTech.com USB C to SATA Adapter - External Hard Drive Connector for 2.5" SATA Drives - SATA SSD / HDD to USB C Cable (USB31CSAT3CB) Black

[Visit the StarTech Store](#)

4.6 ★★★★★ ▾ [34,619 ratings](#) | [890 answered questions](#)

Amazon's **Choice** in SATA Cables by StarTech

-27% \$23⁹⁹

List Price: ~~\$32.99~~ ⓘ

UNPOWERED USB ENCLOSURE FOR SATA M.2 SSDS

- The older M.2 SSDs are SATA SSDs. The newer, current M.2 SSDs are NVMe SSDs.

Here is a USB enclosure for the older SATA M.2 SSDs:

<https://www.amazon.com/SSK-Aluminum-Enclosure-External-Based/dp/B07MKCG5ZG/>



SSK Aluminum USB 3.2 Gen 1 to M.2 SATA NGFF SSD Enclosure Adapter, External SATA Based M.2 Solid State Drive Enclosure Reader (for M.2 SATA SSD only)

[Visit the SSK Store](#)

4.3 ★★★★★

5,923 ratings | 73 answered questions

\$11⁹⁹

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FREE Returns

With **Amazon Business**, you would have **saved \$306.28** in the last

UNPOWERED USB ENCLOSURE FOR NVMe M.2 SSDS

- The older M.2 SSDs are SATA SSDs. The newer, current M.2 SSDs are NVMe SSDs.

Here is a USB enclosure for the newer NVMe M.2 SSDs:

- https://www.amazon.com/gp/product/B08GR2NJT2/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1



LENTION USB C & A to NVMe M.2 SSD Enclosure, USB 3.1 Gen 2 M Key, B&M Key Hard Drive Adapter, Supports M.2 SSD Size 2280/2260/2242/2230 , Compatible Mac OS, Windows, Chrome OS, More(CB-C9s, Space Gray)

[Visit the LENTION Store](#)

4.1 ★★★★★ ∨ [30 ratings](#)

\$26⁹⁹

✓prime Overnight

[FREE Returns](#) ∨

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FAN COOLER, ETC. FOR M.2 SSD

- If you are going run a SATA M.2 SSD or an NVMe SSD in a USB enclosure for an extended length of time (to attempt to recover data files), it is best to install fan cooler to keep the M.2 SSD from overheating. If you install a fan cooler for an M.2 SSD, you will also need a power supply and a "Molex"-to-pulse width modulation adapter.

FAN COOLER, ETC. FOR M.2 SSD (continued)

Here is a good fan cooler for a SATA M.2 SSD or an NVMe M.2 SSD:

[https://www.amazon.com/gp/product/B096WTJMQ4/ref=ppx_yo dt b search a sin title?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B096WTJMQ4/ref=ppx_yo_dt_b_search_a sin_title?ie=UTF8&psc=1)



Titanium Micro TMHSFM3 Nitro M.2 NVME 2280 Heatsink Dual Cooler with 30mm PWM Fan

[Visit the Titanium Micro Store](#)

4.2 ★★★★★ [37 ratings](#)

-6% \$28⁹⁹

List Price: ~~\$30.99~~ ⓘ

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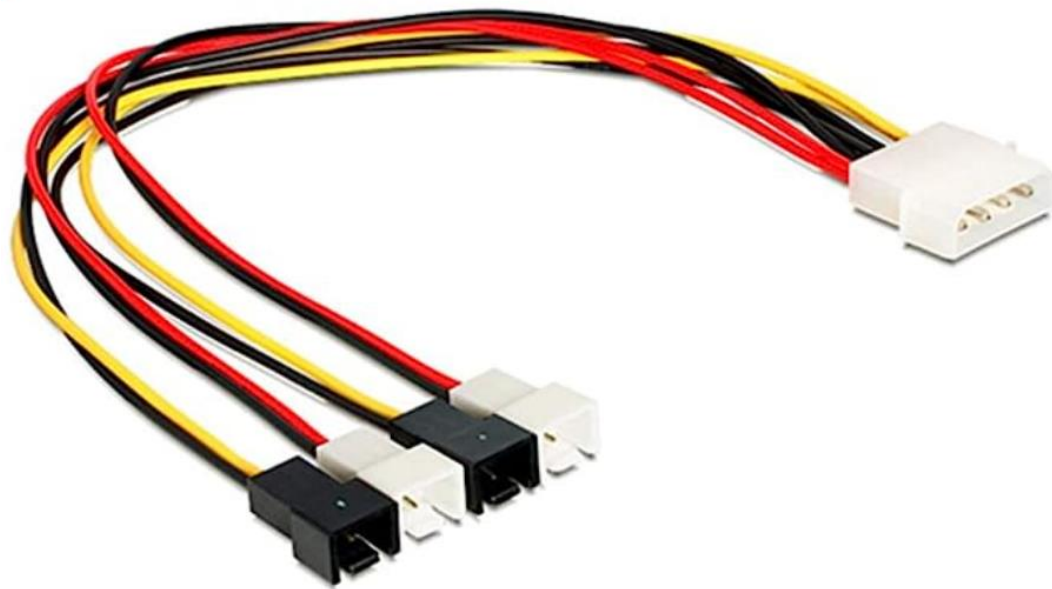
[Create a free account](#) and **save up to 7%** today.

📦 **Local Business** ▾

FAN COOLER, ETC. FOR M.2 SSD (continued)

- Here is a good "Molex to Pulse Width Modulation" adapter for powering up a fan cooler for a SATA M.2 SSD or a SATA NVMe SSD:

https://www.amazon.com/gp/product/B07VS6MSC9/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1



Siyu Xinyi 4-Pin Molex to 4 x 3 Pin / 4 Pin PWM 12V PC Case Fan Power Adapter Cable, 3-Pin or 4-Pin (PWM Connector) to Molex Computer Cooler Cooling Fan Splitter Y Power (Large 4P to 3P Cable)

Brand: SiyuXinyi

4.7 ★★★★★ ∨ 22 ratings

\$7⁸⁸

✓prime One-Day

FAN COOLER, ETC. FOR M.2 SSD (continued)

- Here is a good power supply for powering up a fan cooler for a M.2 SSD
- https://www.amazon.com/gp/product/B084JG4619/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1



Coolerguys 12V Fan Power Supply, Length: 5ft, Input Power: 100-240vAC, Output Power: 12vDC Volts, Multi-Functional, Highly Compatible

[Visit the coolerguys Store](#)

4.6 ★★★★★ [569 ratings](#)

| [12 answered questions](#)

\$7⁹⁹

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FREE Returns [▼](#)

Eligible for Return, Refund or Replacement within 30 days of receipt [▼](#)

Brand Coolerguys

Compatible Personal Computer

