PARTS FOR REPAIRING EXTERNAL SATA HARD DRIVES, SSDs, AND ENCLOSURES

by Francis Chao
fchao2@yahoo.com
SUMMARY

When an external hard drive or a hard drive enclosure fails, you can sometimes buy "third-party" parts to replace the part that has failed, instead of replacing the entire external hard drive or the entire hard drive enclosure.
FOR CONNECTING A 2.5-IN. HD OR SSD TO A USB PORT:

Since a USB port has enough wattage to power up a 2.5-in. hard drive or a SSD, you can use a very cheap adapter that does not have a separate power supply:
Sabrent USB 3.0 to SSD / 2.5-Inch SATA Hard Drive Adapter [Optimized For SSD, Support UASP SATA III] (EC-SSHD)

Price: $9.99 & FREE Shipping on orders over $25 shipped by Amazon. Details

Get $50 off instantly: Pay $0.00 upon approval for the Amazon Rewards Visa Card.

✔prime | Try Fast, Free Shipping

In Stock.

Want it TODAY, April 24 to 92646? Order within 1 hr 45 mins and choose Same-Day Delivery at checkout. Ships from and sold by Amazon.com. Gift-wrap available.

Color: Original Version

• Connect a 2.5" SATA I/II/III hard drive or SSD to your computer with UASP Support
• Speeds up to 5Gbps with 3.0
Sabrent USB 3.0 to SSD / 2.5-Inch SATA Hard Drive Adapter [Optimized For SSD, Support UASP SATA III] (EC-SSHD)

🌟🌟🌟🌟🌟 1,849 customer reviews | 104 answered questions

#1 Best Seller in SATA Cables

Price: $9.99 & FREE Shipping on orders over $25 shipped by Amazon. Details
• Connect a 2.5” SATA I/II/III hard drive or SSD to your computer with UASP Support
• Speeds up to 5Gbps with 3.0
• Hot-swappable, plug and play, no drivers needed.
• LED light indicates Power and Activity status.
• Reverse compatible with USB 2.0 & USB 3.0
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<td>Manufacturer</td>
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<td>Item model number</td>
<td>EC-SSHD</td>
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FOR CONNECTING A 2.5-IN. OR 3.5-IN. HD OR A SATA SSD TO A USB PORT:

You have to use a more-expensive adapter that has a separate power supply if you want to be able to use a SATA-to-USB adapter to connect both 2.5-in. AND 3.5-in. hard drives to a USB port:
FOR CONNECTING A 2.5-IN. OR 3.5-IN. HD OR A SATA SSD TO A USB PORT:
(continued)
This Sabrent model is the best seller on Amazon. It is also one of the cheapest models. However, the bulky one-piece connectors that have both SATA/IDE power and data connectors are easy to work loose with vibration or movement:
FOR CONNECTING A 2.5-IN. OR 3.5-IN. HD OR A SATA SSD TO A USB PORT:

(continued)

This Sabrent model is the only powered hard drive/ssd SATA to USB adapter that arrives with an extra cable so you can also power up a separate add-on cooling fan without having to buy a "Y-cable" for splitting an existing SATA or IDE power cable.
FOR CONNECTING A 2.5-IN. OR 3.5-IN. HD OR A SATA SSD TO A USB PORT:

(continued)

However, the part of this Sabrent model is the heaviest and physically-largest of the various USB to SATA adapters that we tested:

It tends to wiggle lose from a SATA hard drive or SSD unless you tie it and the hard drive or SSD down with brackets or thin cables.
Sabrent USB 3.0 TO SSD / SATA / IDE 2.5 / 3.5 / 5.25-INCH Hard Drive Converter With UL Power Supply & LED Activity Lights [10TB Support] (USB-DS12)

5,133 customer reviews | 510 answered questions

Amazon's Choice for "ide to sata adapter"

Price: $22.99 & FREE Shipping on orders over $25 shipped by Amazon. Details

Get $50 off instantly: Pay $0.00 upon approval for the Amazon Rewards Visa Card.

prime | Try Fast, Free Shipping

In Stock.

Want it tomorrow, April 25 to 92646? Order within 23 hrs 6 mins and choose One-Day Shipping at checkout.

Sold by Store4PC and Fulfilled by Amazon. Gift-wrap available.

Size: USB 3.0 [Upgrade Version]

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<th>USB 2.0</th>
<th>USB 3.0</th>
<th>USB 3.0 [Upgrade Version]</th>
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<tr>
<td>used from $49.98</td>
<td>$22.99</td>
<td>$22.99</td>
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Adapter Port

3.5 inch IDE Power Cable Port
Installation Guide For
2.5”/3.5” SATA Hard Drive

Power Adapter
Installation Guide For
2.5”/3.5” SATA Hard Drive

Power Adapter
Sabrent USB 3.0 TO SSD / SATA / IDE 2.5 / 3.5 / 5.25-INCH Hard Drive Converter With UL Power Supply & LED Activity Lights [10TB Support] (USB-DS12)

⭐⭐⭐⭐⭐ 5,133 customer reviews  |  510 answered questions

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✔️prime  Try Fast, Free Shipping

In Stock.
Want it tomorrow, April 25 to 92646? Order within 23 hrs and choose One-Day Shipping at checkout.

Sold by Store4PC and Fulfilled by Amazon. Gift-wrap available.

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<td>used from $49.98</td>
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<td>$22.99</td>
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- Use your 2.5” / 3.5” IDE hard drive or SATA hard disk as an additional external hard drive
- Connect your SATA / IDE device to your computer through a USB port
- Super-Speed USB 3.0 interface
- Compatible Windows PC or Mac with Available USB 3.0 /2.0/1.1 Port
- Plug and Play without Rebooting
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<tr>
<td>Date first available at Amazon.com</td>
<td>August 31, 2017</td>
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FOR CONNECTING A 2.5-IN. OR 3.5-IN. HD OR A SATA SSD TO A USB PORT:
(continued)
This Tripp Lite model is a bit more expensive but it is less likely to wiggle lose because it uses separate power and data SATA/IDE cables which can withstand more vibration and movement:
FOR CONNECTING A 2.5-IN. OR 3.5-IN. HD OR A SATA SSD TO A USB PORT:
(continued)
Of all of the USB-to-SATA adapters that we tested, this Tripp model is the best one for repairing an existing external hard drive that has failed because of the small footprint of the various parts:
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)

Price: $24.22 & FREE Shipping on orders over $25. Details

Get $50 off instantly: Pay $0.00 upon approval for the Amazon Rewards Visa Card.

Note: Available at a lower price from other sellers that may not offer free Prime shipping.

In Stock.

Want it tomorrow, April 5 to 92646? Order within 16 hrs 54 mins and choose One-Day Shipping at checkout.

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

Style: USB to SATA/IDE

- USB to SATA III w/ UASP
  - $13.22
- USB to SATA
  - $34.03
- USB to SATA III
  - $29.99
- USB to SATA III w/ UASP
  - $11.24

- Connects a 2.5, 3.5 or 5.25 in. SATA or IDE (PATA) hard drive to your laptop or computer's USB port for extra storage, quick disk formatting and fast data transfer
- Compatible with 2.5 in., 3.5 in. and 5.25 in. SATA and IDE Drives Up to 4 TB.
- Backward compatible with earlier USB generations and compatible with all USB-enabled operating systems
- Plug-and-play—no external power supply required
- 3-year limited warranty
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)

4.9 stars from 30 customer reviews | 14 answered questions

Amazon's Choice

Price: $24.22 & FREE Shipping on orders over $25. Details
• Connects a 2.5, 3.5 or 5.25 in. SATA or IDE (PATA) hard drive to your laptop or computer's USB port for extra storage, quick disk formatting and fast data transfer
• Compatible with 2.5 in., 3.5 in. and 5.25 in. SATA and IDE Drives Up to 4 TB.
• Backward compatible with earlier USB generations and compatible with all USB-enabled operating systems
• Plug-and-play—no external power supply required
• 3-year limited warranty
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<tr>
<td>Date First Available</td>
<td>December 29, 2016</td>
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INSTALLING AN ADD-ON FAN:
If your existing external hard drive or external hard drive enclosure has a broken fan or if want to add in a fan to make it run cooler, you can add-on an add-on fan, usually with some creative sawing, filing, and/or drilling on the existing hard drive enclosure:
INSTALLING AN ADD-ON FAN:
The Evercool hard drive fan is more expensive than it's competition. However, unlike it's competition, it's plastic housing protects both the attached internal hard drive and nearby equipment between since it's cheaper competition uses metal housings with metal nuts and bolts which tend to scratch the attached internal hard drive and nearby equipment:
Evercool HD-CW Cool Wheel Hard Drive Cooler (Black Cover, Red Fan) SKU: HD-CW

Price: $14.99 & FREE Shipping

Get $50 off instantly: Pay $0.00 upon approval for the Amazon Rewards Visa.

In Stock.
Get it as soon as Monday, April 9 when you choose Two-Day Shipping at checkout.
Ships from and sold by PCI Micro.

Compare with similar items

New (2) from $14.99 & FREE shipping.

Report incorrect product information.

C-COLOR

Laptop accessories
Portable Laptop Desk, Adjustable Alu...
$19.99 prime
Evercool HD-CW Cool Wheel Hard Drive Cooler (Black Cover, Red Fan) SKU: HD-CW

Price: $14.99 & FREE Shipping

Get $50 off instantly: Pay $0.00 upon approval for the Amazon Rewards Visa Card.

In Stock.
Get it as soon as Monday, April 9 when you choose Two-Day Shipping at checkout.
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<td><strong>Date first listed on Amazon</strong></td>
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INSTALLING AN ADD-ON FAN:
The "Mad Dog.. hard drive fan is one of the cheapest ones available. However, it uses metal housings with metal nuts and bolts which tend to scratch the attached internal hard drive and nearby equipment:
Mad Dog Multimedia DiskMod Hard Disk Drive Dual Fan Cooler

Price: $5.99 & FREE Shipping on orders over $25 shipped by Amazon. Details

Get $50 off instantly: Pay $0.00 upon approval for the Amazon Rewards Visa Card.

✔️prime | Try Fast, Free Shipping

In Stock.
Want it Monday, April 30? Choose Two-Day Shipping at checkout. Details

Sold by K4 Express and Fulfilled by Amazon.

- Mad Dog Multimedia Techie Toyz MD-HDDF-CF-602 Hard Drive Cooler w/Dual Fans
- General Features:
- Silver color Dual fans Fits 3.5-inch hard drives Extend hard drive life and reliability
- Easy installation Mounts to the bottom of any 3.5-inch drive
- 4-pin Molex pass-through power connector Cooling Specifications: 20 CFM 22 dBA
- 4800 RPM rotational speed

Compare with similar items
HARD DRIVE COOLER
Maximum Air Flow 21 CFM - 20 dBA
Mad Dog Multimedia DiskMod Hard Disk Drive Dual Fan Cooler

🌟🌟🌟🌟🌟 2 customer reviews

Price: **$5.99** & **FREE Shipping** on orders over $25 shipped by Amazon. Details
Mad Dog Multimedia Techie Toyz MD-HDDF-CF-602 Hard Drive Cooler w/Dual Fans

General Features:
- Silver color
- Dual fans
- Fits 3.5-inch hard drives
- Extend hard drive life and reliability
- Easy installation
- Mounts to the bottom of any 3.5-inch drive
- 4-pin Molex pass-through power connector

Cooling Specifications:
- 20 CFM
- 22 dBA
- 4800 RPM rotational speed
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ATTACHING AN INTERNAL HARD DRIVE OR AN SSD TO YOUR COMPUTER WITH A SATA DATA CABLE AND A SATA POWER CABLE

To connect an internal hard drive or an SSD to your computer as cheaply as possible, you can use SATA data cables and SATA power cables instead of USB enclosures/adapters:
ATTACHING AN INTERNAL HARD DRIVE OR AN SSD TO YOUR COMPUTER WITH A SATA DATA CABLE AND A SATA POWER CABLE (continued)

Be sure to power down your computer before you make these two connections.
ATTACHING AN INTERNAL HARD DRIVE OR AN SSD TO YOUR COMPUTER WITH A SATA DATA CABLE AND A SATA POWER CABLE (continued)

For SATA hard drives and SSDs, the plugs at the end of power and data cables are "female" and the receptacle ports on the SATA hard drives and SSDs are "male".
ATTACHING AN INTERNAL HARD DRIVE OR AN SSD TO YOUR COMPUTER WITH A SATA DATA CABLE AND A SATA POWER CABLE (continued)
This 40-inch SATA data cable is as long as the SATA standards permit:
You can use it to connect an internet SATA hard drive or a SATA SSD that is located outside of a computer to a SATA port located in the motherboard of the same computer
SATAGear 40in Internal SATA III Cable Straight to Straight

Price: $4.11 + $2.09 shipping

Get $50 off instantly: Pay $0.00 upon approval for the Amazon Rewards Visa Card.

In Stock.
Get it as soon as April 10 - 12 when you choose Standard Shipping at checkout.
Ships from and sold by SerialStuff.

Size: 40 inches

- 4 inches
- 14 inches
- 17 inches
- 20 inches
- 30 inches

- 40 inches

Color: Red

- SATA revision 3.0 (aka SATA III) provides up to 6 Gbps data throughput
- Compatible with Serial ATA hard drives, Blu-ray/ DVD/ CD drives, and other Serial ATA devices
- Narrow Cable Design Improves Air Flow
- Shielded Cable Protects Against EMI/RFI Interference
- Backwards compatible with SATA revision 1 and 2 (aka SATA I and SATA II)
SATAGear

SATAGear 40in Internal SATA III Cable Straight to Straight

Be the first to review this item

Price: $4.11 + $2.09 shipping

Get $50 off instantly: Pay $0.00 upon approval for the Amazon Rewards Visa Card.

In Stock.
Get it as soon as April 10 - 12 when you choose Standard Shipping at checkout. Ships from and sold by SerialStuff.

Size: 40 inches

4 inches 14 inches 17 inches 20 inches 30 inches

40 inches
Product Features

- Connect your high-speed Serial ATA device to a Serial ATA Controller
- Support Data transfer rates of up to 6.0 Gbps

Narrow Cables design:

- simplifies Cable, routing, and installation
- improves air flow within CPU (NO more BIG ribbons blocking air movement
- Meets Serial ATA 1.0 Standards
- Cable is shielded to protect against EMI/RFI

Product Technical Specifications

- Product Type: Internal SATA Device Cable
- Cable Type: Internal Serial ATA Cable
- Connector(s)

  - Connector Type (if Part of Cable, conn. 1): 7 pin
  - Connector 1
    - Type: 7 pin
    - Gender: Female
  - Connector 2
    - Type: 7 pin
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ATTACHING AN INTERNAL HARD DRIVE OR AN SSD TO YOUR COMPUTER WITH A SATA DATA CABLE AND A SATA POWER CABLE (continued)

If you use the previously-described 40-inch SATA data cable to connect to an internet SATA hard drive or a SATA SSD, you still need to connect a SATA power cable to the same hard drive or SSD:
ATTACHING AN INTERNAL HARD DRIVE OR AN SSD TO YOUR COMPUTER WITH A SATA DATA CABLE AND A SATA POWER CABLE (continued)

You have two ways to connect a SATA power cable to the an internal hard drive or SSD:

For Method 1, if the SATA power cables inside your cable cannot reach out far enough or you have no room inside the cabinet of the computer to place the internal hard drive or SSD, you can use a 24-inch SATA power extensions:
ATTACHING AN INTERNAL HARD DRIVE OR AN SSD TO YOUR COMPUTER WITH A SATA DATA CABLE AND A SATA POWER CABLE (continued) (Method 2: continued) We usually use two of the following 24-inch SATA power extension cables for a total of 48-inches in order to match the 40-inch SATA data cable that we use:
CRJ Electronics

CRJ SATA Power Extension Cable with High Density Black Sleevings 24"

Price: $9.99 & FREE Shipping on orders over $25 shipped by Amazon. Details

Get $40 off instantly: Pay $0.00 upon approval for the Amazon.com Store Card.

In Stock.
Want it Monday, April 30 to 92646? Choose Same-Day Delivery at checkout.
Sold by OVERCLOCKERS DIRECT and Fulfilled by Amazon. Gift-wrap available.

- High Quality 15-Pin SATA Male To Female Extension Cable
- High Density Black Sleevings For Low Visibility
- Plastic-Injection Molded Connectors For High Durability And Reliability
- Total Cable Length (Excluding Connectors): 24"/60cm
- Total Cable Length (Including Connectors): 25.5"/64cm

Compare with similar items
CRJ Electronics

CRJ SATA Power Extension Cable with High Density Black Sleeving 24"

5 Stars ▼ 6 customer reviews

Price: $9.99 & FREE Shipping on orders over $25 shipped by Amazon. Details
Sold by OVERCLOCKERS DIRECT and Fulfilled by Amazon. Gift-wrap available.

- High Quality 15-Pin SATA Male To Female Extension Cable
- High Density Black sleeving for low visibility
- Plastic-Injection molded connectors for high durability and reliability
- Total Cable Length (Excluding Connectors): 24"/60cm
- Total Cable Length (Including Connectors): 25.5"/64cm
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ATTACHING AN INTERNAL HARD DRIVE OR AN SSD TO YOUR COMPUTER WITH A SATA DATA CABLE AND A SATA POWER CABLE (continued)

For Method 2, you can supply an SATA power cable from a USB to SATA adapter that has a separate power cable such as the Tripp Lite unit. Only a few models such as this model have the SATA data and SATA power connectors as separate connectors.
IF THE INTERNAL HARD DRIVE OR SSD INSIDE AN EXTERNAL HARD DRIVE OR SSD FAILS, YOU CAN INSERT A NEW HARD DRIVE OR SSD

This repair only works for external hard drives or SSDs that have an internal hard drive or SSD inside them:
IF THE INTERNAL HARD DRIVE OR SSD INSIDE AN EXTERNAL HARD DRIVE OR SSD FAILS, YOU CAN INSERT A NEW HARD DRIVE OR SSD

These monster-sized Toshiba hard drives currently provide the lowest cost per byte:
Toshiba N300 8TB NAS 3.5" Internal Hard Drive-SATA 6 Gb/s 7200 RPM 128MB (HDWN180XZSTA)

List Price: $264.99
Price: $236.00 & FREE Shipping. Details
You Save: $28.99 (11%)

Get $50 off instantly: Pay $186.00 upon approval for the Amazon Rewards Visa Card.

▼prime | Try Fast, Free Shipping ▼

Only 5 left in stock - order soon.
Want it Friday, April 6? Order within 18 hrs 31 mins and choose One-Day Shipping at checkout. Details
Sold by CST Group and Fulfilled by Amazon. Gift-wrap available.

Capacity: 8TB

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https://discussions.apple.com/docs/DOC-6121data from or even repair the better-built models of external hard drives.