Solid state drive examples

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5 Types of SSDs (Solid State Drives) with Connectors

That"s comparable to a solid-state drive (SSD) using a Serial ATA connection. A ...

In this article, we"re going to dive into everything you need to know about different types of SSDs, and help direct you toward the best SSD for your specific workloads.

First, SSD stands for Solid State Drive. This is in comparison to a traditional HDD, or Hard Disk Drive.

SSDs don"t use RPM as a measurement at all, though, and the reason why ties back into that "Solid State" name. Basically, a component being "Solid State" means that it has no moving parts whatsoever.

SSDs use flash memory for storage.

As it turns out, solid-state storage is a pretty significant improvement over hard drives, especially in terms of raw speed.

Even when limited to the HDD-focused SATA standard, SSDs consistently outperform standard HDDs across the board. And it makes sense if you think about it!

What"s going to be faster: a spinning platter being written to and read from with a mechanical arm? Or a surge of electricity?

In the case of hard drives, this can actually be a bit of a detriment, because it makes getting a full-speed 7200 RPM HDD just a bit more expensive than it would be with a standard 3.5-inch enclosure.

2.5-inch SSDs use SATA bandwidth and connectors, just like HDDs. Because of this, they should be compatible with any PC or laptop that"s already using a hard drive.

This makes them an ideal no-fuss storage upgrade or expansion for most users, and the majority of benefits you"ll get from an SSD upgrade can be experienced within the speeds allowed by the SATA standard.

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