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<p>SSDs2024-07-01</p> <p>M.2 SSDs: Big Performance Comes in Small Packages</p> <p>Solid state drives</p> <p&qt; (SSDs) released in recent years have become faster and more 🍋 capable of handling large</p> <p> amounts of data. Their full capabilities, however, are being hindered or limited by the</p> <p> interfaces they 🍋 are connected to. Serial ATA 3rd generation interfaces, designed for</p> <p> the much slower mechanical hard disk drives, run with a 🍋 max imum native transfer rate of</p> <p> 6 Gb/s.</p> <p>The Mini-SATA (mSATA) interface, though designed specifically to provid e the</p&qt; <p> smallest form factor for 🍋 SSDs, is limited by the SATA 6 Gb/ s link. The M.2 standard, a</p> <p> specification for internally mounted computer add-in cards, 🍋 was created to address the</p> <p> limitations of mSATA and provide more options for small form factor ca rds, including</p> <p> SSDs in 🍋 different sizes and with different capacities. M.2 was originally called the</p> <p> Next Generation Form Factor (NGFF), and then formally renamed 🍋 to M.2 in 2013. M.2</p> <p> improves on the mSATA standard, which uses the PCI Express® Mini Card physical card</p> <p> layout 🍋 and connectors. As mSATA's "successor," ; M.2 provides higher performance and</p> <p> capacity while minimizing module footprint.</p> <p>An M.2 SSD module is connected 🍋 to a host</p> <p> either through a SATA interface or via a PCI Express (PCIe) lane. Thou gh M.2 supports</p> <p> both SATA 🍋 and PCle, an M.2 module may only be inserted in e ither one of the two</p> <p> interfaces, so check your motherboard 🍋 documentation to make sure that your module fits</p> <p> and works with the corresponding socket on the motherboard.</p> <p>Differences Between an M.2</p> <p> 🍋 and mSATA SSD</p> <p>Both are high-performance SSDs designed for small devices such as lapto ps</p> <p> and tablets. The mSATA interface used to 🍋 provide the smalle st form factor for SSDs.</p>

<p> However, it is limited by the SATA 3.0 link speed of 6 Gb/s 🍋

<p> The M.2 form factor was borne out of the need for multiple options for

and 1 TB maximum capacity.</p>

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