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Crucial Announces MX500 Solid State Drive

The next-generation drive is built on quality, speed, and security

Tech Specs:

- Micron® 2nd Generation 64-layer 3D TLC NAND
- Sequential reads/writes up to 560/510 MB/s¹
- Random reads/writes up to 95K/90K IOPS¹
- Capacities up to 2TB²
- 2.5-inch and M.2 Type 2280 form factors
- 5-year limited warranty³

Key Highlights:

- Great price/performance ratio and superior reliability
- 45 times more energy efficient than a typical hard drive⁴
- Dynamic Write Acceleration delivers faster saves and file transfers
- Integrated Power Loss Immunity preserves saved work in the event of an unexpected power loss
- AES 256-bit hardware-based encryption keeps data safe and secure from hackers and thieves
- Exclusive Data Defense guards against data corruption
- Adaptive Thermal Protection limits temperatures within the drive
- Compatible with the Crucial® Storage Executive tool for easy drive maintenance
- Easy installation with a step-by-step guide at uk.crucial.com/ssd-install
- Free Acronis® True Image™ HD software included for easy data migration

Additional information:

- [Crucial® MX500 SSD Product Tour](#)

Boise, ID and Glasgow, UK– JANUARY 9, 2018 - Crucial, a leading global brand of memory and storage upgrades, today announced the availability of the [Crucial® MX500 SSD](#). The new drive features second generation Micron® 3D NAND technology and is 45 times more energy efficient than a typical hard

¹ Based on the published specs of the 1TB model. Speeds based on internal testing. Actual performance may vary.

² 1 GB equals 1 billion bytes. Actual useable capacity may vary.

³ 5 years or before reaching the maximum total bytes written (TBW) on the product's datasheet.

⁴ Active average power use comparison based on published specs of the 1TB Crucial MX500 SSD and the 1TB Western Digital® Caviar Blue™ WD10EZEX internal hard drive, which, as of November 2017, is one of the industry's top-selling internal hard drives. All other capacities of the Crucial MX500 SSD have comparable active average power consumption specs.

drive.⁴ Available in capacities up to 2TB² in the 2.5-inch form factor and up to 1TB in the M.2 form factor, the MX500 has sequential reads/writes up to 560/510 MB/s and random reads/writes up to 95K/90K IOPS.¹

“This next generation MX500 SSD features a stackable 64-layer, 256-gigabit component. Micron’s floating gate NAND is designed with CMOS Under the Array (CUA), which allows us to minimise the footprint of the die. At 59 square millimeters, it’s among the world’s smallest 256-gigabit die,” said Jon Tanguy, Crucial Senior SSD Product Engineer. “Our engineering team has incorporated this leading-edge NAND technology in an SSD that includes all the advanced features Crucial customers have come to expect to keep their data safe.”

Crucial also directly addresses two of the scariest issues for first-time SSD buyers: moving files and installation. Upgrading from a traditional hard drive is easy with the MX500 thanks to the data migration and cloning software included with each drive. And the [Crucial SSD Install Guide](#) helps new installers with directions for every step of the process.

“We’re excited about our next generation of SSD drives and the near-instant performance and lasting reliability that comes with them,” said Jonathan Weech, Crucial Senior SSD Product Manager. “Users can rest assured that their data, family videos, travel photos, music, and other important documents are stored safely on the MX500.”

The MX500 advanced features include:

- **Dynamic Write Acceleration** for faster saves and file transfers.
- **Hardware-based encryption** to keep personal files and confidential data secure.
- **Integrated Power Loss Immunity** to avoid unintended data loss when the power unexpectedly goes out.
- **Exclusive Data Defense** to prevent files from becoming corrupted and unusable.
- **Redundant Array of Independent NAND** to protect data at the component level.

Crucial SSDs have been established, proven, and tested for over seven generations of drives. The MX500 is backed by a five-year limited warranty³ and supported by the [Crucial® Storage Executive software tool](#) for easy drive maintenance. The 2.5-inch version of the MX500 is available for immediate purchase at [Crucial.com](#) or through our global channel partners, while the MX500 M.2 version will be available in Q1’18. For more information about the whole Crucial SSD portfolio, visit [crucial.com/ssd](#).

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About Crucial

Crucial is a global brand of Micron Technology, Inc. Crucial solid state drives (SSDs) and memory (DRAM) upgrades are compatible with over 100,000 new and old desktops, laptops, workstations, and servers. Available worldwide at leading retail and e-tail stores, commercial resellers, and system integrators, Crucial products enhance system performance and user productivity. Learn more at Crucial.com.

About Micron

We are an industry leader in innovative memory and storage solutions. Through our global brands – Micron®, Crucial®, and Ballistix® – our broad portfolio of high-performance memory and storage technologies, including DRAM, NAND, NOR Flash, and 3D XPoint™ memory, is transforming how the world uses information to enrich life. Backed by nearly 40 years of technology leadership, our memory and storage solutions enable disruptive trends, including artificial intelligence, machine learning, and autonomous vehicles in key market segments like cloud, data centre, networking, and mobile. Our common stock is traded on the NASDAQ under the MU symbol. To learn more about Micron Technology, Inc., visit micron.com.

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