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## **New Micron and Crucial M500 SSDs Offer Affordable, High-Capacity Storage**

### **New M500 SSD Reaches Terabyte-Class Capacity and Delivers Next-Generation Feature Set**

#### **Key Messages:**

- Offered in 120GB, 240GB, 480GB and 960GB capacities
- First terabyte-class drive available for under \$600
- Utilizes Micron 20nm MLC NAND flash with a SATA 6Gb/s controller and Micron custom firmware
- Includes hardware-based encryption, data protection against unexpected power loss, and an adaptive thermal monitoring system
- Available in 2.5 inch, mSATA, and M.2 form factors for standard computing and next-generation ultrathin devices

#### **Multimedia Elements:**

- [Media Kit](#)

BOISE, Idaho, Jan. 10, 2013 (GLOBE NEWSWIRE) -- Micron Technology, Inc. (Nasdaq:MU) today introduced the [M500](#) solid state drive (SSD), featuring terabyte-class capacity, new ultra-slim package designs, and increased response times at a more affordable price point. Available to consumers, businesses, and system builders under the Crucial<sup>®</sup> brand, and to OEM customers under the Micron<sup>®</sup> brand, the new M500 SSD is built start-to-finish by Micron, providing the quality and reliability that only a NAND flash memory and SSD manufacturer can provide. Watch [this behind-the-scenes video](#) to see how Micron designs and builds SSDs.

#### **Benefits of Advanced NAND Flash Technology**

The M500 SSD utilizes Micron's award-winning, 20-nanometer (nm) multilevel cell (MLC) NAND flash to achieve terabyte-class capacity and enable a new level of SSD price competitiveness; the 960GB Crucial M500 SSD will be initially priced under \$600.

Micron's advanced NAND flash technology also provides more storage in a small footprint. Micron is the first manufacturer to pack nearly half a terabyte of storage onto an SSD module the size of a [stick of gum](#) (80mm x 22mm). This new form factor, called M.2, along with the mSATA form factor, are key designs for current and next-generation ultrathin computers, including Ultrabook™ devices, tablets and convertible PCs. Visit [micron.com/ultrathin](#) to discover how Micron SSDs can transform the ultrathin experience.

#### **SSD Performance**

Dramatically faster than a hard drive, the M500 SSD enables lightning fast boot-up, near instant wake from sleep, and fast application loading, creating a dynamic and engaging computing experience. The M500 SSD uses a SATA 6Gb/s controller combined with Micron's custom firmware to deliver up to 80,000 input/output operations per second (IOPS). The drive's sequential read and write speeds reach up to 500 MB/s and 400 MB/s, respectively.<sup>1</sup>

"The M500 SSD is a reliable storage solution featuring nearly instantaneous system response times and terabyte-class capacity—all at a competitive price point," said Glen Hawk, vice president of Micron's NAND Solutions Group. "For consumers, the Crucial M500 SSD is an easy, cost-effective solution for dramatically increasing system performance. For OEMs, we're ultrathin ready with the Micron M500 SSD—improved response times, lower power consumption, and trusted reliability—all in a design that's smaller than ever before."

#### **Next-Generation Feature Set**

The M500 SSD incorporates extended features important to ultrathin systems, such as device sleep (DEVSLP), which increases system battery life while maintaining system responsiveness. This feature enables the drive to draw less than 5

milliwatts of power while the system is in sleep mode—a 93% power improvement compared to previous-generation drives.<sup>2</sup>

The M500 SSD also incorporates the following specially designed features to provide users with peace of mind that their data is protected:

- Hardware encryption technology (TCG Opal 2.0 + IEEE 1667) designed to maintain data security in the event of device theft or loss<sup>3</sup>
- Greater thermal management enables the drive to work with the host computer to dynamically adjust power consumption based on usage demands, helping designers face the challenges of ultra-small, thermally constrained systems
- Expanded power-loss protection and advanced error recovery techniques deliver class-leading reliability. Data integrity is protected even during unexpected power loss

## Compatibility and Availability

The Crucial M500 SSD is backed by a three-year limited warranty and is compatible with both PC and Mac<sup>®</sup> systems<sup>4</sup>. The 2.5-inch drive will be available in 120GB, 240GB, 480GB and 960GB capacities. The smaller M.2 and mSATA form factors will be available in 120GB, 240GB and 480GB capacities. The 2.5-inch Crucial M500 SSD is expected to be available for purchase in the first quarter of 2013 through [select global channel partners](#) or direct through [www.crucial.com](http://www.crucial.com). Micron will sell the M500 SSD direct to OEMs and through their distribution network. The M.2 and mSATA form factors are expected in the second quarter of 2013.

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<sup>1</sup> Based on 480GB and 960GB capacities

<sup>2</sup> Comparing Micron 240GB M500 SSD with device sleep to Micron 256GB C400 SSD

<sup>3</sup> When combined with software applications, including Microsoft® BitLocker with Windows 8 Pro/Enterprise/RT or Wave® Systems' EMBASSY® Trust suite

<sup>4</sup> Micron-branded M500 SSD warranty terms may vary.

## About Micron

Micron Technology, Inc. is one of the world's leading providers of advanced semiconductor solutions. Through its worldwide operations, Micron manufactures and markets a full range of DRAM, NAND and NOR flash memory, as well as other innovative memory technologies, packaging solutions and semiconductor systems for use in leading-edge computing, consumer, networking, embedded and mobile products. Micron's common stock is traded on the NASDAQ under the MU symbol. To learn more about Micron Technology, Inc., visit [www.micron.com](http://www.micron.com).

The Micron Technology, Inc. logo is available at <http://www.globenewswire.com/newsroom/prs/?pkgid=6950>

## About the Crucial Brand

Crucial is a global brand of Micron Technology, Inc. Crucial® products include award-winning solid state drives (SSDs) and DRAM for more than 50,000 desktops, laptops, servers, workstations, and other systems. Crucial products are available worldwide at leading retail and e-tail stores, commercial resellers, and system integrators who can be found at [www.crucialproducts.com](http://www.crucialproducts.com). For more information or support, visit [www.crucial.com](http://www.crucial.com).

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CONTACT: Media Contacts:

Micron Contact:

Melinda Jenkins

+1 (650) 801-7957

Melinda.jenkins@zenogroup.com

[www.micron.com](http://www.micron.com)

Crucial Contact:

Andrew Rodger

+1 (978) 518-4516

[crucial@matternow.com](mailto:crucial@matternow.com)

[www.crucial.com](http://www.crucial.com)