

crucial®

M500
SOLID STATE DRIVE



PRODUCT HIGHLIGHTS:

- Transformative performance: dramatically faster than a hard drive
- Nearly instantaneous boot times
- Ample storage: available in capacities up to terabyte-class
- Includes top-level hardware encryption technology
- Advanced controller technology and Micron custom firmware
- Extensive quality and reliability testing built into every drive
- Three-year limited warranty
- Compatible with PC and Mac® systems

For more information on how our SSDs undergo hundreds of quality tests and over a thousand hours of prerelease validation testing, visit www.crucial.com/SSD/quality.

Crucial® M500 SATA 6Gb/s Solid State Drive

Transform the systems in your network. Enable your workforce.

In today's workplace, computers are no longer just a type of office equipment. They're the way in which we communicate, connect, and drive our business. How our computers perform is often essential to how the business performs. Dramatically faster than a hard drive, the Crucial® M500 isn't just a storage upgrade - it's a complete transformation for the systems in your network. From nearly instantaneous boot times, powerful data transfer speeds, increased multitasking capability, and rock-solid reliability, the Crucial M500 is the most economical way to upgrade your aging PCs and enable your workforce to achieve more.

Secure your data. Protect your customers' privacy.

Your data is your competitive advantage. Whether it's the inside information on your latest product or your customers' credit card numbers, information in the wrong hands has the potential to devastate your business. The best strategy for protecting your sensitive data is to implement a defense, one that includes top-level hardware-based encryption. The Crucial M500 SSD is a self-encrypting drive (SED) based on the rigorous standards established by the TCG Opal specification. Combined with applications like Microsoft® BitLocker or Wave® Systems' EMBASSY® Trust suite, our AES 256-bit hardware encryption engine (that's integrated into the controller of the Crucial M500) allows the drive to operate at full speed without the performance loss that's typically associated with non-SED drives using software-based encryption technology.

Consistently fast speeds. No exceptions.

On any given day, your team has to use a variety of file types to get the job done. No matter what kind of files your team ends up working with, they'll experience high speeds without a drop in performance across different file types. Unlike other SSDs on the market, Crucial SSDs treat all files the same, regardless of whether they're compressed or uncompressed. While many SSDs on the market achieve faster speeds by using file compression, many of the most common file types can't be compressed, resulting in SSDs that often deliver slower speeds than advertised. This is important because the files that many professionals use everyday - PDFs, videos, graphic files and zip files - are compressed files and thus unable to be compressed any further. With a Crucial SSD, the specs we advertise are the same specs you'll see in the real world.

Crucial SSDs. Performance you can trust.

As a brand of Micron, one of the largest NAND manufacturers in the world, Crucial SSDs are designed and developed in-house. This means four things: hundreds of SSD qualification tests, over a thousand hours of prerelease validation testing, 1.5 billion dollars invested in R&D, and more than 30 years of industry expertise. With our multi-billion dollar commitment to NAND development, our record of patent and process innovation, and our award-winning customer support team, we're dedicated to quality. For you, that means your SSD has been designed with cutting-edge technology and it's been rigorously tested and approved. Don't settle for anything less.



Crucial® M500 SATA 6Gb/s Solid State Drive

Capacity ¹ (Unformatted)	120GB	240GB	480GB	960GB
Interface	SATA 6Gb/s (SATA 3Gb/s compatible)	SATA 6Gb/s (SATA 3Gb/s compatible)	SATA 6Gb/s (SATA 3Gb/s compatible)	SATA 6Gb/s (SATA 3Gb/s compatible)
Sustained Sequential Read ² up to (128k transfer)	500MB/s	500MB/s	500MB/s	500MB/s
Sustained Sequential Write ² up to (128k transfer)	130MB/s	250MB/s	400MB/s	400MB/s
Random Read up to ³ (4k transfer)	62,000 IOPS	72,000 IOPS	80,000 IOPS	80,000 IOPS
Random Write up to ³ (4k transfer)	35,000 IOPS	60,000 IOPS	80,000 IOPS	80,000 IOPS
Form Factor	2.5-inch, mSATA, and M.2	2.5-inch, mSATA, and M.2	2.5-inch, mSATA, and M.2	2.5-inch
NAND	20nm Micron MLC NAND			
Life Expectancy	1.2 million hours mean time to failure (MTTF)			
Warranty	Limited three year warranty			
Endurance	72TB total bytes written (TBW), equal to 40GB per day for 5 years			
Operating Temperature	0°C to 70°C			
Compliance	CE, FCC, BSMI, C-Tick, VCCI, Kcc, RoHS, China RoHS, WEEE, TUV, UL, SATA-IO, IC			
Firmware	Field upgradable firmware			
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (SMART) commands			

Crucial® M500 SSD ordering information

Description	Part Number	Contains
Crucial M500 120GB 2.5-inch Internal SSD	CT120M500SSD1.PK01	2.5-inch (7mm) SSD with 9.5mm adapter
Crucial M500 240GB 2.5-inch Internal SSD	CT240M500SSD1.PK01	2.5-inch (7mm) SSD with 9.5mm adapter
Crucial M500 480GB 2.5-inch Internal SSD	CT480M500SSD1.PK01	2.5-inch (7mm) SSD with 9.5mm adapter
Crucial M500 960GB 2.5-inch Internal SSD	CT960M500SSD1.PK01	2.5-inch (7mm) SSD with 9.5mm adapter
Crucial M500 120GB mSATA Internal SSD	CT120M500SSD3.PK01	mSATA SSD, 2 mounting screws
Crucial M500 240GB mSATA Internal SSD	CT240M500SSD3.PK01	mSATA SSD, 2 mounting screws
Crucial M500 480GB mSATA Internal SSD	CT480M500SSD3.PK01	mSATA SSD, 2 mounting screws
Crucial M500 120GB M.2 Internal SSD	CT120M500SSD4.PK01	M.2 (2280-D2-B-M) SSD
Crucial M500 240GB M.2 Internal SSD	CT240M500SSD4.PK01	M.2 (2280-D2-B-M) SSD
Crucial M500 480GB M.2 Internal SSD	CT480M500SSD4.PK01	M.2 (2280-D2-B-M) SSD

¹ Some of the listed storage capacity is used for formatting and other purposes and is not available for data storage. 1GB equals 1 billion bytes.

² Performance measured using IOMeter* with Queue Depth 32.

³ Performance measured using IOMeter* with Queue Depth 32. Measurements are performed on 8GB of LBA range on a full SSD.

¹ 1 GB = 1 billion bytes. Actual usable capacity may vary.

*Other names and brands may be claimed as the property of others.