

crucial®

M500
SOLID STATE DRIVE



PRODUCT HIGHLIGHTS:

- Radically faster than a hard drive
- Nearly instantaneous boot times
- Ample storage: available in capacities up to terabyte-class
- 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 your system's performance.

New interfaces and multitasking demands require more from your system than perhaps ever before. From connecting instantly with friends and accessing apps, websites, and playlists online, to simultaneously streaming videos and downloading files, your computer is faced with an entirely new set of performance expectations that a hard drive struggles to meet. That's where the Crucial® M500 SSD comes in. With data transfer speeds that are radically faster than a hard drive, the Crucial M500 SSD isn't just a storage upgrade - it's a complete system transformation. From its nearly instantaneous boot times, powerful data transfer speeds, increased multitasking capability, and rock-solid reliability, the Crucial M500 delivers dramatic performance gains – all at an affordable price.

Ample storage capacity with plenty of choice.

Available in capacities up to terabyte-class, the Crucial M500 SSD provides plenty of storage for your ever-growing collection of photos, videos, music, and important documents. Based on your storage needs, choose between a 120GB, 240GB, 480GB, or 960GB¹ drive and access your programs and files almost as soon as you click on them. If you prefer to store your data on an external backup drive, in the cloud, or on your home network, opt for a smaller capacity. Or if you'd rather have everything in one place, choose one of our larger sizes. Whichever capacity you choose, our selection ensures that you're able to find a drive that's the right combination of storage, performance, and price.

Consistently fast speeds. No exceptions.

No matter what kind of files you're working with on a Crucial SSD, you'll experience high speeds with no 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 most people use every day – videos, mp3s, advanced 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.

Crucial is a brand of Micron, one of the largest NAND manufacturers in the world, and we design and develop our SSDs in-house using state-of-the-art technology. 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	RoHS, CE, FCC, UL, BSMI, C-TICK, KCC RRL, W.E.E.E., TUV, VCCI, 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.