

## Crucial® MX100 SSD

### The choice between speed and capacity is over. Choose both.

Traditionally, SSDs have offered powerful speeds and extra features, but at a high cost per gigabyte. Enter the Crucial MX100 SSD. Leveraging years of R&D and the latest NAND technology, the Crucial MX100 offers a low cost per GB, combined with unrelenting performance and one of the most complete feature sets available.



### Feature-packed capacity. Proven reliability.

The Crucial MX100 provides plenty of cost-effective storage for your photos, music, videos, and documents—all while backing your data with a higher level of reliability than a hard drive or competing SSD.



#### Run your system longer than ever before—using less power.

With Extreme Energy Efficiency technology, the Crucial MX100 is up to 89% more energy efficient than a typical hard drive.<sup>1</sup>



#### Protect all of your data—even if the power goes out.

With Power Loss Protection, if you happen to be saving a file and you suddenly lose access to power, your data will still be preserved.



#### Keep your memories, photos, and files safe.

When a photo or file gets corrupted, it often becomes unusable. Prevent this from happening in the first place with the Crucial MX100 SSD, which arms every storage component with four layers of Exclusive Data Defense to guard against corrupt files.



#### Push your drive to the limit and avoid overheating.

Adaptive Thermal Protection technology enables the Crucial MX100 to dynamically adjust storage component activity based on how you're using the drive, allowing your system to stay cool and react to changes in use.

### Unrelenting performance. Top-notch security.

Boot up almost instantly. Load programs in seconds. Accelerate demanding applications. And encrypt and protect your data with no loss in performance.



#### Do more—faster.

Get true 550 MB/s sequential reads on both compressible and incompressible data—and leave your old 177 MB/s hard drive in the dust.<sup>2</sup>



#### Save and transfer files in seconds rather than minutes.

Our exclusive Native Write Acceleration technology spreads the drive's workload across several elements, enabling you to write data in seconds rather than minutes.



#### Get best-in-class hardware encryption.

Keep personal files and sensitive information secure from hackers and thieves with AES 256-bit encryption—the same grade used by banks and hospitals. The Crucial MX100 is one of the only drives available that meets Microsoft® eDrive®, IEEE-1667, and TCG Opal 2.0 standards of encryption.



#### Attain consistently fast speeds without compromising the reliability of your data.

Our engineers created RAIN technology to protect your data at the component level, similar to how RAID is used with multiple hard drives. This enterprise-class technology increases the security and protection of your data to a level that's rarely available in consumer-class SSDs.



## Micron® quality—a higher level of reliability.



As a brand of Micron, one of the largest flash storage manufacturers in the world, the Crucial MX100 is backed by the same quality and innovation that has produced some of the world's most advanced memory and storage technologies. With over a thousand hours of prerelease validation testing and hundreds of SSD qualification tests, the Crucial MX100 has been thoroughly tried, tested, and proven. Make the switch to the Crucial MX100 SSD and start outlasting and outperforming your hard drive.

### Crucial® MX100 2.5-inch Internal Solid State Drive

#### Type

- SATA 6Gb/s (compatible with SATA 3Gb/s)
- 2.5-inch (7mm)

#### Life Expectancy (MTTF)

- 1.5 million hours

#### Endurance

- 72TB total bytes written (TBW), equal to 40GB per day for 5 years

#### Warranty

- Limited three-year warranty

#### Operating Temperature

- 0°C to 70°C

#### Firmware

- User-upgradeable firmware

#### Support

- For installation and warranty information, visit [crucial.com/support](http://crucial.com/support)

#### Hardware Encryption

- AES 256-bit encryption
- TCG Opal 2.0-compliant
- IEEE-1667-compliant
- Compatible with Microsoft® eDrive®

#### Advanced Features

- Native Write Acceleration
- Redundant Array of Independent NAND (RAIN)
- Exclusive Data Defense
- Adaptive Thermal Protection
- Power Loss Protection
- Data Path Protection
- Active Garbage Collection
- TRIM Support
- Self Monitoring and Reporting Technology (SMART)
- Error Correction Code (ECC)

#### Compliance

- CE, FCC, BSMI, C-Tick, VCCI, Kcc, RoHS, China RoHS, WEEE, TUV, UL, SATA-IO

CAPACITY <sup>3</sup>	PART NUMBER	BOX CONTENTS	SEQUENTIAL READ MB/s <sup>4</sup>	SEQUENTIAL WRITE MB/s <sup>4</sup>	RANDOM READ IOPS <sup>4</sup>	RANDOM WRITE IOPS <sup>4</sup>
128 GB	CT128MX100SSD1	2.5" (7mm), 9.5mm adapter	550	150	80k	40k
256 GB	CT256MX100SSD1	2.5" (7mm), 9.5mm adapter	550	330	85k	70k
512 GB	CT512MX100SSD1	2.5" (7mm), 9.5mm adapter	550	500	90k	85k

<sup>1</sup> Hard drive active average power use based on published specs of 1TB Western Digital® Blue WD10JPVX internal hard drive. According to NPD data published February 2014, this was one of the most popular hard drives available and an accurate reflection of a common internal hard drive.

<sup>2</sup> Performance level based on comparative AS SSD benchmark ratings of 512GB Crucial MX100 SSD and 1TB Western Digital® Blue 7200 RPM hard drive (WD10EZEX-00U). Actual performance levels may vary based on benchmark used and individual system configuration. Test setup: Intel® DZ87KLT-75K motherboard, Intel i7-4770K 3.50GHz processor, BIOS Rev. 0446, and Windows® 7 Ultimate 64-bit operating system using AS SSD test suite.

<sup>3</sup> Some of the storage capacity is used for formatting and other purposes and is not available for data storage. 1GB equals 1 billion bytes. Actual usable capacity may vary.

<sup>4</sup> Typical I/O performance numbers as measured using IOMeter® with a queue depth of 32 and write cache enabled. Fresh out-of-box (FOB) state is assumed. For performance measurement purposes, the SSD may be restored to FOB state using the secure erase command. System variations will affect measured results.