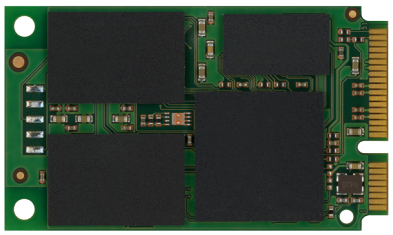
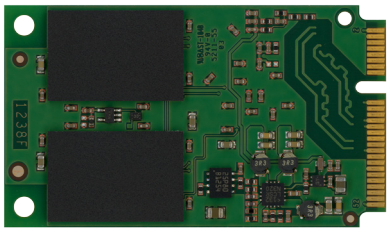
Crucial® m4 mSATA Solid State Drive

Vendor	Crucial®
Product Line	Crucial® m4 Solid State Drive
Product Name	Crucial® m4 mSATA SSD
Full Product Name	Crucial® m4 mSATA Solid State Drive
Product Tagline	Crucial SSDs. Performance you can trust.
Product Description Short	The Crucial® m4 mSATA SSD delivers all of the award-winning performance and reliability of the Crucial m4 SSD – in a drive that's an eighth of the size.
Product Description Long	**An SSD that's smaller than your business card.** The Crucial® m4 mSATA SSD delivers all of the award-winning performance and reliability of the Crucial m4 SSD – in a drive that's an eighth of the size. Measuring in at about one-third the size of a standard business card (3cm x 5cm), the Crucial m4 mSATA is designed primarily for ultrathin laptop users who want to dramatically increase their system's performance. Because of its small form factor, the Crucial m4 mSATA SSD can do things that hard drives and other SSDs often can't: it can serve as a primary storage device in ultrathin laptops, it can attach directly to the mSATA socket on your system's motherboard (freeing up a hard drive bay), or it can act as a cache to complement the performance of an existing hard drive. Offering lightweight construction, inherent power savings, travel-worthy durability, and validation for Intel® Smart Response technology, the Crucial m4 mSATA SSD packs powerful performance in a tiny mSATA form factor.
Key Messages	**Award-winning performance. Tiny form factor.** The Crucial® m4 mSATA SSD delivers all of the award-winning performance and reliability of the Crucial m4 SSD – in a drive that's an eighth of the size. Measuring in at about one-third the size of a standard business card (3cm x 5cm), the Crucial m4 mSATA is designed primarily for ultrathin laptop users who want to dramatically increase their system's performance. Featuring the same advanced controller technology, Micron custom firmware and high-speed synchronous MLC NAND that have made the Crucial m4 SSD a mainstay on the market, the Crucial m4 mSATA SSD is engineered to deliver the same blazing-fast performance as our award-winning 2.5-inch SSD – in a smaller mSATA form factor. **Ultrathin form factor means flexibility.** Because of its tiny mSATA form factor, the Crucial m4 mSATA SSD can do things that hard drives and other SSDs often can't. With the Crucial m4 mSATA SSD, save valuable system space by mounting it directly to the mSATA socket on your motherboard – and free up a hard drive bay in the process. Or just keep your existing hard drive and use the Crucial m4 mSATA SSD as a cache to accelerate the system's performance. Validated for Intel® Smart Response Technology and NVELO Dataplex™ caching software, it's designed to work as a cache or as a standalone SSD for ultrathin laptops. No matter how you use the Crucial m4 mSATA SSD, experience high-performance storage in a tiny, low-power package. **Consistently fast speeds. No exceptions and no fine print.** There's a reason that Crucial SSDs have garnered numerous international awards – they do what they're supposed to do. No matter what kind of files you're working with on a Crucial SSD, you'll experience high speeds with no drop in performance. Unlike other SSDs on the market, Crucial SSDs treat all files the same, regardless of whether they're compressed or uncompressed. This is important because the files most people use everyday – videos, mp3s, advanced graphics files and zip files – are compressed files and thus unable to be compressed any further. 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 drastically slower speeds than originally advertised. With the advanced technology of a Crucial SSD, however, our advertised speeds are tied to real world use. **Crucial—quality you can depend on.** Crucial is a trusted name when it comes to SSDs, and that's no coincidence. As a brand of Micron, one of the world's leading manufacturers of SSDs, our engineers work tirelessly to design, refine, and support a powerful line of SSDs—all the way down to the NAND components. With over 15 years of experience in the memory industry, rigorous quality control testing, and the ongoing development of advanced technology, we continue to innovate without sacrificing what has made us great: high-quality products backed by outstanding customer service. **Crucial SSDs. Performance you can trust.**

Product Highlights	• Powerful SSD performance in a tiny mSATA form factor • Ultrathin form factor provides lightweight mobility • Features blazing-fast speeds – up to 500MB/s sequential reads • Treats compressed and uncompressed files the same, resulting in consistently fast speeds • Validated for Intel® Smart Response technology • Available in 32GB, 64GB, 128GB, and 256GB • Backed by a limited three-year warranty
Keywords for Search	SSD, SATA III, SATA 6Gb/s, solid state drive, m4, mSATA, Crucial, hard drive, storage, ultrabook, Intel-inspired, Intel Smart Response, thin laptops, MacBook Air





UNIT WEIGHT AND DIMENSIONS		
Unit Width	1.175 inches	29.85mm
Unit Length	2.00 inches	50.80mm
Unit Thickness	0.147 inches	3.75mm
Unit Weight	0.3527 oz	10g

package contents

package front view

PACKAGED PRODUCT WEIGHT AND DIMENSIONS		
Package Type	Plastic (PET) Clamshell	
Quantity Per Package	1	
Shipping Weight	0.95 oz	0.0269kg
Package Dimensions W x L x D	2.125" x 6.874" x 0.744" inches	54.00 x 174.60 x 18.90mm

32GB Crucial® m4 mSATA Solid State Drive

ORDERING INFORMATION	
Part Number	CT032M4SSD3
UPC	649528759627
JAN CODE	4540395600639
Product Title	Crucial® m4 32GB mSATA SSD
Country of Origin	Singapore or China
Capacity[1] (Unformatted)	32GB
Memory Type	Micron MLC NAND Flash memory
Form Factor	mSATA
Interface	SATA 6Gb/s (SATA III)
Controller	Marvell with Micron Custom Firmware
Sequential Read[2]	440MB/s
Sequential Write[3]	50MB/s
4KB Random Read[3]	45,000 IOPS
4KB Random Write	15,000 IOPS
MTBF	1.2 million hours Mean Time Between Failures (MTBF)
Endurance	36TB Total Bytes Written (TBW), equal to 20GB 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

64GB Crucial® m4 mSATA Solid State Drive

ORDERING INFORMATION	
Part Number	CT064M4SSD3
UPC	649528759634
JAN CODE	4540395600646
Product Title	Crucial® m4 64GB mSATA SSD
Country of Origin	Singapore or China
Capacity[1] (Unformatted)	64GB
Memory Type	Micron MLC NAND Flash memory
Form Factor	mSATA
Interface	SATA 6Gb/s (SATA III)
Controller	Marvell with Micron Custom Firmware
Sequential Read[2]	500MB/s
Sequential Write[3]	95MB/s
4KB Random Read[3]	45,000 IOPS
4KB Random Write	20,000 IOPS
MTBF	1.2 million hours Mean Time Between Failures (MTBF)
Endurance	36TB Total Bytes Written (TBW), equal to 20GB 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

128GB Crucial® m4 mSATA Solid State Drive

ORDERING INFORMATION	
Part Number	CT128M4SSD3
UPC	649528759641
JAN CODE	4540395600653
Product Title	Crucial® m4 128GB mSATA SSD
Country of Origin	Singapore or China
Capacity[1] (Unformatted)	128GB
Memory Type	Micron MLC NAND Flash memory
Form Factor	mSATA
Interface	SATA 6Gb/s (SATA III)
Controller	Marvell with Micron Custom Firmware
Sequential Read[2]	500MB/s
Sequential Write[3]	175MB/s
4KB Random Read[3]	45,000 IOPS
4KB Random Write	35,000 IOPS
MTBF	1.2 million hours Mean Time Between Failures (MTBF)
Endurance	72TB Total Bytes Written (TBW), equal to 40GB written 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

256GB Crucial® m4 mSATA Solid State Drive

ORDERING INFORMATION	
Part Number	CT256M4SSD3
UPC	649528759658
JAN CODE	4540395600660
Product Title	Crucial® m4 256GB mSATA SSD
Country of Origin	Singapore or China
Capacity[1] (Unformatted)	256GB
Memory Type	Micron MLC NAND Flash memory
Form Factor	mSATA
Interface	SATA 6Gb/s (SATA III)
Controller	Marvell with Micron Custom Firmware
Sequential Read[2]	500MB/s
Sequential Write[3]	260MB/s
4KB Random Read[3]	45,000 IOPS
4KB Random Write	50,000 IOPS
MTBF	1.2 million hours Mean Time Between Failures (MTBF)
Endurance	72TB Total Bytes Written (TBW), equal to 40GB written 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

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

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