

Micron® 1100 3D NAND SATA SSD

with Optional TAA/FIPS 140-2 L2 Certification

SATA

M.2

2.5"



Performance and Power for Client Computing

Our 1100 SATA SSD provides exceptional performance and extremely low power consumption for client computing applications ranging from desktop gaming rigs to corporate road warrior tablets.

The 1100 SSD offered with TAA or FIPS 140-2 Certified drive is ideal for government and public sectors offering an additional level of security.

The 1100 SSD is manufactured to excel in performance, endurance, price and power while enabling green computing. Device sleep (DEVSLP) low-power modes extend battery life, and several features protect valuable data, including Opal 2.0 self encryption, power-loss protection for data-at-rest and adaptive thermal monitoring.

Revolutionary 3D NAND technology — Micron's state-of-the-art process, CMOS under the array (CUA) — allows for 3X the capacity of planar NAND in a vertically tiered compact die. This advancement allows our 1100 SSD to be offered in 1TB M.2 and 2TB 2.5-inch capacities.



KEY BENEFITS

Storage
A state-of-the-art, stackable 32-tier 3D NAND die allows up to 2TB of storage in a 2.5-inch form factor and 1TB in an M.2.

Battery Life
Class-leading power efficiency (<2mW in low-power mode) translates to significantly lower power consumption compared to HDDs — 20X lower in active mode.

Data Security
Industry-leading hardware-based encryption and enhanced data protection features protect your data.¹

Reliability
Adaptive thermal monitoring limits heat generated by the SSD and increases reliability in space-constrained designs with a small-footprint M.2 form factor.

Endurance
Optimized 3D TLC NAND enables increased performance and increased endurance — up to 5X the industry-standard TBW.

WHICH APPLICATIONS ARE THE BEST FIT?



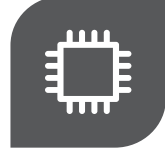
CORPORATE NOTEBOOK
★★★★



ULTRATHIN PC TABLET
★★★★



VIDEO PRODUCTION
★★



EMBEDDED
★★



WORKSTATION
★★★★

The 1100 SSD's solid performance and low power consumption lowers your total cost of ownership.

★ GOOD ★★ BETTER ★★★ BEST



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Why Micron 3D NAND Client SSDs

Performance

Dynamic write acceleration is optimized for common client computing environments, where data writing operations tend to occur in bursts, offering the highest performance possible without decreasing user capacity.

Data Performance Security

All encryption/decryption utilizes an AES-256-bit hardware engine that complies with the TCG Opal 2.0 standards and Microsoft® eDrive IEEE® 1667 protocol for the 1100 standard and TAA compliant drive. FIPS 140-2 is offered with TCG Opal 2.0 standards without Microsoft eDrive IEEE 1667 protocol.

Manageability

Our client drives have built-in diagnostics and health check intelligence that work in conjunction with our downloadable Storage Executive tool to provide easy, hassle-free manageability. Our Storage Executive tool also allows you to erase, repurpose and retire the SSD using a certified process that ensures no residual data will be compromised.



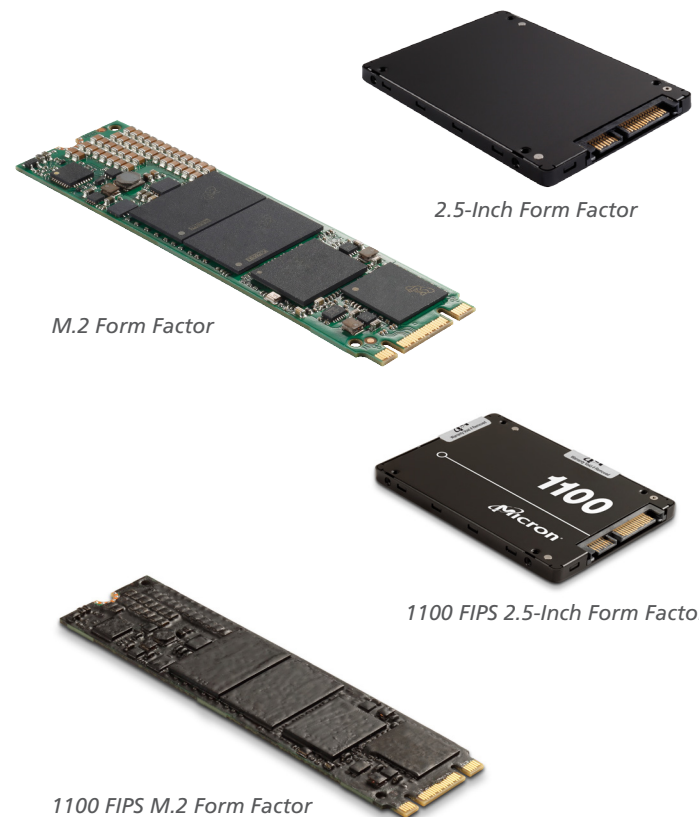
Base Part Numbers

Standard SED Part	Capacity	Form Factor
MTFDDAK256TBN-1AR12xxYY	256GB	2.5"
MTFDDAK512TBN-1AR12xxYY	512GB	2.5"
MTFDDAK1T0TBN-1AR12xxYY	1024GB	2.5"
MTFDDAK2T0TBN-1AR12xxYY	2048GB	2.5"
MTFDDAV256TBN-1AR12xxYY	256GB	M.2
MTFDDAV512TBN-1AR12xxYY	512GB	M.2
MTFDDAV1T0TBN-1AR12xxYY	1024GB	M.2
Standard Non-SED Part	Capacity	Form Factor
MTFDDAK256TBN-1AR1ZxxYY	256GB	2.5"
MTFDDAK512TBN-1AR1ZxxYY	512GB	2.5"
MTFDDAK1T0TBN-1AR1ZxxYY	1024GB	2.5"
MTFDDAK2T0TBN-1AR1ZxxYY	2048GB	2.5"
MTFDDAV256TBN-1AR1ZxxYY	256GB	M.2
MTFDDAV512TBN-1AR1ZxxYY	512GB	M.2
MTFDDAV1T0TBN-1AR1ZxxYY	1024GB	M.2

Note:
 xx: 2AB = Standard SED, ZAB = standard non-SED
 2TA = TAA compliant SED, ZTA = TAA compliant non-SED
 5FC = FIPS-2 L2 compliant SED (2.5" 256/512GB, M.2 256GB)

Key Specifications

	OEM, SI, VAR			
Category	Corporate PCs and Notebooks			
Model	Micron 1100			
Interface	SATA 6 Gb/s			
Capacities ²	256GB	512GB	1TB	2TB
Sequential read (MB/s)	530	530	530	530
Sequential write (MB/s)	500	500	500	500
Random Read (IOPS)	55K	92K	92K	92K
Random Write (IOPS)	83K	83K	83K	83K
Endurance	120	240	400	400
Mean Time to Failure (MTTF)	1.5 million hours			
DEVSLP (mW)	2	2	4	25
Advanced Features	Power-Loss Protection (data at rest) Adaptive Thermal Monitoring TCG Opal Encryption Garbage Collection, S.M.A.R.T.			



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- No hardware, software or system can provide absolute security under all conditions. Micron assumes no liability for lost, stolen or corrupted data arising from the use of any Micron products, including those products that incorporate any of the mentioned security features.
- Unformatted. 1GB = 1 billion bytes. Formatted capacity is less.

Products are warranted only to meet Micron's production data sheet specifications. Products, programs and specifications are subject to change without notice. Dates are estimates only.

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