

# Industry-leading user experience in professional and scientific computing, gaming, and content creation<sup>1</sup>



The Micron 3500 SSD speeds past the competition with industry-leading user experiences for the most demanding client applications in professional and scientific computing, gaming, and content creation.<sup>1</sup>

It is the world's first high-performance client NVMe SSD with 200+ layer NAND.<sup>2</sup>

## Realize faster time to insights and improved productivity.

Product development, engineering modeling, scientific, medical, media, energy, and other data-intensive applications thrive with this SSD. The Micron 3500 SSD is ready to deliver the critical insights you need, when you need them.

## Extreme storage performance for your PC that eclipses competitors for gaming and content creation.

The Micron 3500 SSD eclipses the competitors with better gaming and content creation experiences. Now, you can uplevel your game and tell more of your story.<sup>3</sup>

## Leading-edge NAND technology delivers density and power efficiency. Increase your storage performance and save battery life.

Micron 200+ layer NAND technology provides ideal support for mobile applications and enables increased performance, a better user experience, and improved power efficiency.<sup>2</sup>



Micron 3500 NVMe SSD (M.2, 22x80mm)

1. All comparative and/or relative performance statements refer to Micron internal testing using SPECwpc<sup>SM</sup> and PCMark10<sup>®</sup> benchmark scores versus client performance SSDs. These competitive SSDs are from the top four competitive suppliers of client SSDs by revenue as of August '23, excluding consoles, and as noted in Forward Insights analyst report SSD Supplier Status\_Q2/Q3. For details on these benchmarks, see [https://www.spec.org/gwpg/wpc.static/wpc\\_overview.html](https://www.spec.org/gwpg/wpc.static/wpc_overview.html) and <https://benchmarks.ul.com/pcmark10>.
2. See <https://investors.micron.com/news-releases/news-release-details/micron-ships-worlds-first-232-layer-nand-extends-technology> and public information from the SSD suppliers noted in footnote 1 available at the time of this document's publication.
3. Uplevel game refers to internal Micron game load time testing with Valorant<sup>™</sup> compared to competitive SSDs as detailed in footnote 1. Valorant is published by Riot Games.
4. For more information on Project Athena, see <https://www.intel.com/content/www/us/en/products/docs/devices-systems/laptops/laptop-innovation-program.html#:~:text=Designing%20the%20future%27s%20most%20advanced,laptops%20are%20our%20latest%20designs>.

## Micron 3500 SSD Key Benefits

### Discover new insights in an instant for business and scientific computing

The Micron 3500 SSD enables faster time to insights and improves productivity across a broad range of professional and scientific applications.

Life sciences, medical, and scientific applications run up to 132% better; media and entertainment, 3D modeling, and graphic arts run up to 74% better; product development applications run up to 71% better.

### Level-up your game with the industry's leading SSD for client PC user experience

Get a critical advantage with better performance and user experience for gaming (games load up to 38% faster). The Micron 3500 SSD helps you create content and tell your story with up to 38% lower access times and up to 36% better bandwidth that beats competitors' SSDs.

With power efficiency as a core design tenet, the Micron 3500 SSD supports Project Athena, which enables over nine hours of battery life — even when used with HD displays.<sup>4</sup>

### Rise above the competition with the world's first 200+ layer NAND in a high-performance client SSD

Micron 200+ layer NAND enables 100% higher write bandwidth and 75% higher read bandwidth than prior generation NAND.

In addition, this NAND supports independent wordline read to help improve read concurrency to get you on to the next big thing.<sup>2</sup>

**Instant insights for professionals and scientists**

With class-leading SPECwpc<sup>SM</sup> benchmark scores against competitive SSDs, the Micron 3500 SSD enables the best user experience for demanding applications, including:

Application Types	Micron 3500 improvement <sup>5</sup>
Life sciences, medical, scientific	Up to 132%
Media and entertainment visual effects, graphic arts	Up to 74%
Product development	Up to 71%
Energy industry	Up to 24%

**The leading SSD for client PC user experience**

Create content more efficiently and take gaming to the next level. The Micron 3500 beats the competitors with better overall performance and an unparalleled user experience for gaming. Make your mark and get into the action faster and get ready before your friends – or your opponents – do.

Gaming/Content Influencers	Micron 3500 improvement <sup>6</sup>
Data access time	Up to 38% faster
Game loading time	Up to 38% faster
Overall PCMark 10 score	Up to 37% better
SSD bandwidth	Up to 36% better

**Micron 3500 SSD Part Numbers**

MT FD K BA **512** I GD - 1 BK 1 A AB YY

**Drive Capacity**

512 = 512GB  
 1T0 = 1024GB  
 2T0 = 2048GB

**Security Features**

A = Non-SED<sup>7</sup> TCG Pyrite  
 5 = SED TCG Opal

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- Statement refers to public information available at the time of this document's publication for the SSDs noted in Footnote 1, and internal testing using PCMark10<sup>®</sup>, see <https://benchmarks.ul.com/pcmark10> for more details. Game loading times refer to footnote 3.
- SED = self-encrypting drive.
- Unformatted capacity. 1GB = 1 billion bytes; formatted capacity will be less.
- Sequential workloads measured at the fresh-out-of-box state (FOB, see <https://www.snia.org/education/online-dictionary/term/fob> for details), SSD unformatted; SSD write cache enabled; NVMe power state 0; measured using FIO with a 128KB transfer size and a queue depth of 32.
- Random workloads measured at FOB, SSD unformatted; SSD write cache enabled; NVMe power state 0; measured using FIO with a 4KB transfer size and a queue depth of 128.
- TYP refers to typical values. Read/write latency measured using a 4KB transfer size, queue depth 1.
- No 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.

[micron.com/3500](https://micron.com/3500)

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**Micron 3500 NVMe SSD**

Category	Performance PCs and notebooks		
Model	Micron 3500 SSD		
Form Factor	M.2 (22 x 80mm)		
Interface	PCIe Gen4, NVMe 2.0c		
Capacities <sup>8</sup>	512GB	1TB	2TB
Sequential Read (MB/s) <sup>9</sup>	7,000	7,000	7,000
Sequential Write (MB/s) <sup>9</sup>	5,100	6,900	7,000
Random Read (IOPS) <sup>10</sup>	680	1,050	1,150
Random Write (IOPS) <sup>10</sup>	700	1,150	1,150
Read Latency (TYP) <sup>11</sup>	50µs	50µs	50µs
Write Latency (TYP) <sup>11</sup>	12µs	12µs	12µs
Endurance (TBW)	300TB	600TB	1,200TB
MTTF (Million Hours)	2	2	2
Sleep/PS4 Power (mW)	<5	<5	<5
Active Idle Power (mW)	<400	<400	<400
PCIe Gen4 Active Read Power (mW)	<8,250	<8,250	<8,250
Advanced Features	6 <sup>th</sup> Generation 3D 232-layer TLC NAND Hardware-based AES 256-bit encryption <sup>12</sup> Power-loss protection (data at rest) Host-controlled thermal management Performance enhancing accelerated caching Thermal S.M.A.R.T. via SMBus Basic management command (BMC) FW activate without reset Sanitize block and crypto erase Power-loss signal support TCG Opal 2.02, TCG Pyrite 2.01 Micron Storage Executive management tool		