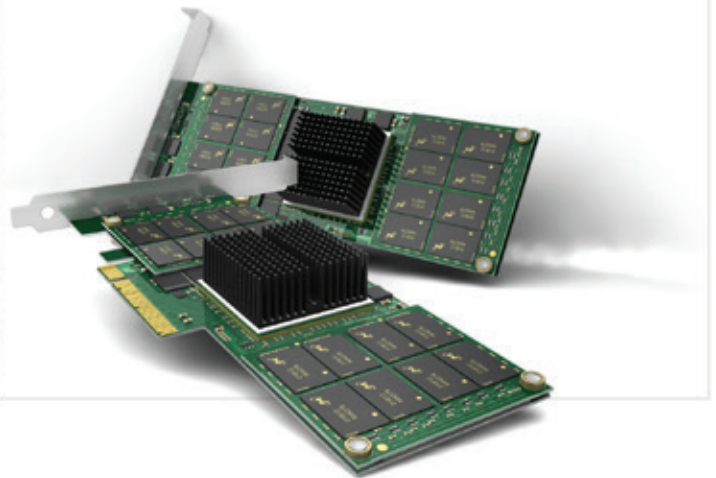


Micron® P320h HHHL PCIe SSD



Best-in-Class Performance

Our half-height, half-length (HHHL) P320h drive delivers outstanding performance in enterprise applications that demand frequent, intensive READ access, such as media streaming, Web acceleration, and data warehousing.

Built on server-grade Micron SLC NAND, the low-latency P320h drive provides market-leading READ throughput, combined with exceptional reliability and remarkable power efficiency. Our custom controller is designed specifically to interact with and optimize our high-performance NAND, achieving high sequential read speeds. Engineered for endurance, the P320h drive can withstand high temps and a heavy workload.

The P320h SSD's performance extends beyond the hardware. Our unique RAIN (redundant array of independent NAND) technology provides both robust lifetime wear leveling and data protection. A suite of other advanced NAND-management tools provide monitoring, reporting, error correction, and workload balancing.

As a NAND manufacturer, Micron is able to offer unique advantages—because we have direct control over the memory design, process, and supply, you get the best that our product innovations, test and compatibility tools, and integrated support structure have to offer.

	P320h HHL
Capacity ¹	350GB, 700GB
Interface	x8 PCIe Gen2-compliant
Sequential read	Up to 3.2 GB/s ²
Sequential write	Up to 1.9 GB/s ²
Random read	Up to 785,000 ³ IOPS
Random write	Up to 205,000 ³ IOPS
Read latency	<42µs (512 bytes) posted
Write latency	<9µs posted
Active power consumption	25W max
Endurance ⁴ (total bytes written)	350GB: 25PB; 700GB: 50PB
Operating temp	(0°C to +50°C)
Form factor	HHHL ⁵
Dimensions	68.90 x 167.65 x 18.71mm

1. Unformatted. 1GB = 1 billion bytes. Formatted capacity is less.
2. 128KB transfer size, steady state.
3. 4KB transfer size, steady state.
4. Lifetime endurance is measured not in years, but in the number of bytes that can be written to the device.
5. Half-height, half-length.

Advantages for Enterprise Applications

Breakthrough Read Performance

Our custom controller and high-speed NAND deliver industry-leading sequential and random performance.

Power Efficiency

At just 25W, the P320h drive delivers up to an astounding 30,000 read IOPS per watt.

Durability

Enterprise-grade SLC NAND and sophisticated NAND-management algorithms deliver up to 50 petabytes (PB) of drive life.

Easy NAND Management Software

Micron's RealSSD® Manager provides a convenient GUI to optimize drive workload and lifespan.

Reliability

Our SSDs leverage Micron's proven NAND quality and test capabilities to provide best-in-class drive reliability.

Ideal for Use in Applications That Require:

- High read performance
- Durability
- Data integrity
- High reliability

Typical Applications:

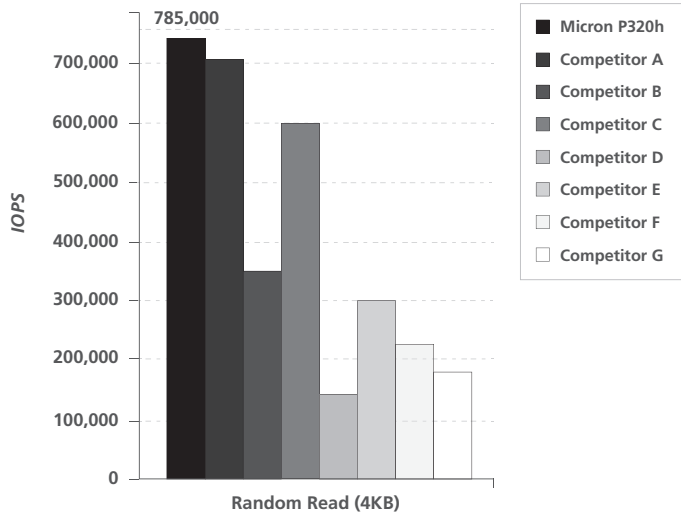
- Web accelerators
- Media streaming
- Data warehousing
- Video-on-demand

Micron® P320h HHL PCIe SSD

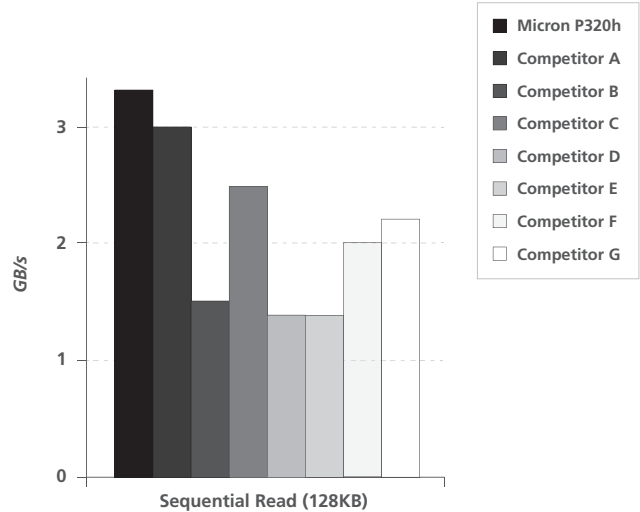
Workhorse Performance

The unique design and features of the P320h HHL drive deliver solid performance. The charts below show how our drive compares to other SSD PCIe competitors.

PCIe SSD Random Read Performance



PCIe SSD Sequential Read Performance



Micron Advantage	Customer Benefit
NAND Flash leadership and experience	<i>Assurance that your data is being handled by a product built start to finish by NAND Flash experts</i>
Worldwide technical support and factory engineering teams	<i>A network of experienced engineers dedicated to solving problems and delivering customer solutions</i>
Proven quality record	<i>Lower product failure rates and increased end-product marketability and brand reputation</i>
Controlled SSD BOM with PCN notifications	<i>Easy supply-chain management and planning</i>
Extensive testing	<i>Predictably reliable high-quality drives that work with your platform</i>

Part	Capacity	Size*	Voltage	Sequential Read (MAX, 128KB)	Random Read (MAX, 4KB)
MTFDGAR350SAH	350GB	HHHL	12V	3.2 GB/s	785,000
MTFDGAR700SAH	700GB	HHHL	12V	3.2 GB/s	785,000

* Half-height, half-length: 68.90 x 167.65 x 18.71mm

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P320h