Biwin M560 PCIe Gen5 SSD

PCIe Gen 5 x4, NVMe 2.0

Up to 11,000 MB/s Read and 9,700 MB/s Write

Average power consumption below 5.2W

AI-Driven Workloads

Biwin M560 PCIe Gen5 NVMe SSD delivers next-generation storage performance for modern PCs. With sequential read speeds of up to 11,000 MB/s, it accelerates large file transfers, game loading, and data-intensive tasks such as 4K/8K media editing and AI-driven workflows. Powered by an advanced controller and premium NAND flash, Biwin M560 maintains stable high-speed performance with improved efficiency, enabling faster load times and smoother system responsiveness in everyday computing.

Product Features

Packed with Next-Gen Speed

Step into the PCIe® Gen5 era with sequential read speeds of up to 11,000 MB/s. Powered by a multi-channel architecture, Biwin M560 accelerates game loading, large file transfers, and demanding everyday tasks while enabling faster data processing and smoother system responsiveness for modern high-performance workloads.

Efficient Power, Cooler Operation

Built on an advanced 6nm controller, Biwin M560 balances high-speed operation with optimized power efficiency. With average power consumption below 5.2W, it reduces heat buildup and energy draw under heavy loads, helping extend battery life and maintain stable operation in laptops and compact platforms.

AI-Ready for Modern Workloads

Engineered to support evolving computing demands, Biwin M560 enhances efficiency across AI-driven and everyday scenarios. Handle large file operations more effectively in mobile work environments, enable smoother AI model deployment on compact systems, and experience reduced wait times when launching applications and games—bringing greater fluidity and adaptability to modern workflows.

*Tested by BIWIN labs , compared to PCIe 4.0 SSDs, large file transfer efficiency increased by up to 27% in mobile office scenarios, AI model execution improved by up to 11% on mini PC platforms, and application/game launch times reduced by up to 11% on desktop systems. Actual performance may vary due to systems, devices, or environment.

Reliability Built to Last

Advanced LDPC error correction and intelligent wear-leveling technologies work together to safeguard data integrity and extend drive lifespan. With endurance rated up to 1500 TBW (2 TB) and a 5-year warranty with replacement service, Biwin M560 provides more dependable storage and more sustained stability for everyday use and intensive applications.

Biwin Storage

For decades, Biwin has made the critical storage and memory you'll find in many of the leading digital devices that have defined our digital world. The Biwin consumer brand offers the best of Biwin's experience, a range of SSDs, DRAM, memory cards, USBs and related accessories that will help you get the most out of your devices.

Our cutting-edge facilities use the latest technologies, including our own chip packaging, software and hardware labs, state-of-the-art clean rooms, and our own award-winning manufacturing equipment. We are especially proud of our extraordinarily rigorous chain of testing to provide you with the best in reliability.

Specifications

Model Name	Biwin M560	
Form Factor	M.2 2280	
Interface	PCIe Gen5 ×4, NVMe 2.0	
DRAM Cache	DRAM-less	
Capacity	1 TB	2 TB
Sequential Read (Up to)	11000 MB/s	11000 MB/s
Sequential Write (Up to)	9700 MB/s	10000 MB/s
Random Read 4K (Up to)	1400K	1700K
Random Write 4K (Up to)	1600K	1700K
TBW	750 TB	1500 TB
Dimensions	80.00 × 22.00 × 2.45 mm	
Weight	< 10 g	
Operating Temperature	0°C to + 70°C	
Storage Temperature	-40°C to + 85°C	
MTBF	1,500,000 hours	
Certifications	RoHS, FCC, CE, CB, KCC, BSMI, VCCI, RCM, UKCA, GB4943	
Warranty	5-Year Limited	

1. Tested by BIWIN labs. Actual performance may vary due to systems, devices, or environment.
2. Maintenance and future updates are required throughout the product lifecycle. Specifications are subject to change without notice.
3. The pictures are for illustration only. Actual products may vary due to product enhancements or changes.
4. Not all products are sold in all regions of the world.
5. As used for storage capacity, one megabyte (MB)= one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on the operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabyte per second (GB/s) = one billion bytes per second.
6. MTBF = Mean Time Between Failures based on internal testing using Telcordia stress testing standard.
7. Please visit www.biwintech.com for more details.

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