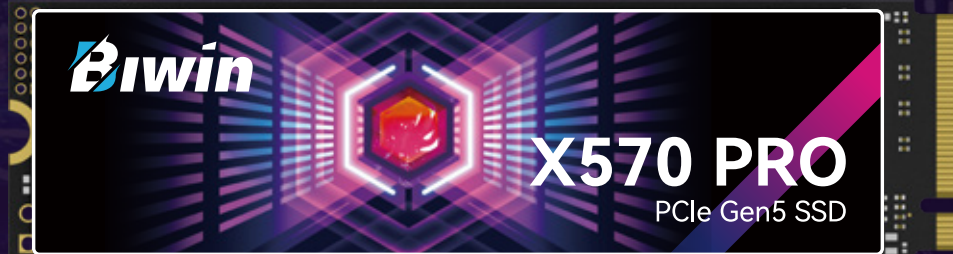# BIWIN

Black Opal X570 PRO SSD

| PCIe Gen5×4, NVMe 2.0 | Read Speeds Up to 14000 MB/s | Large Capacity Up to 4 TB | Premium TLC NAND |

Biwin Black Opal X570 PRO SSD offers incredible sequential read speeds up to 14000 MB/s, powered by a PCIe Gen5×4 interface and the NVMe 2.0 protocol—unleashing higher-speed data transfers than ever before. It's engineered for ultra-fast data access for high-intensity gaming, large-scale video editing, and data-heavy workflows. Black Opal X570 PRO is more than a storage upgrade—it's the future of speed, now in your hands.

▶ Product Features

Faster Access, Quick Transfer

Boost your performance with Biwin X570 PRO, equipped with up to 4 GB of independent DRAM cache and remarkable random read performance of 2000K IOPS. This advanced cache technology intelligently accelerates read/write operations, allowing for faster data access and smoother multitasking.

Cool, Stable, Reliable: Advanced Thermal Design

Keep your system at peak performance with Biwin X570 PRO's advanced thermal control technology. Powered by a 6nm controller and supporting up to 8 NAND channels, the X570 PRO delivers significantly enhanced data transfer speeds and power efficiency. The integration of an intelligent algorithm and a multi-layer graphene thermal pad ensures exceptional heat dissipation under heavy workloads.

Store More, Play More

With capacities up to 4 TB, Biwin X570 PRO offers enough space to store your gaming library, high-resolution video projects, and vast amounts of data without compromise. Expand your potential with the X570 PRO and keep your workflow uninterrupted, no matter how big the task. Larger capacity and better performance will give you more freedom to work, create, or play.

Next-Level Speed Meets Compatibility

Compatible with both Intel and AMD platforms, the X570 PRO is optimized for PCIe 5.0 motherboards while offering backward compatibility with PCIe 3.0 and PCIe 4.0. Whether you're enhancing your gaming rig, or boosting your laptop's performance, this SSD ensures top-tier compatibility across all devices.

Biwin Storage Black Opal Series

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.

Biwin Black Opal is especially designed for gamers, enthusiasts, modders, and overclockers seeking top-tier performance. It is the result of years of experience in SSDs and DRAM manufacturing. The durability matches the more strenuous needs of gamers, content providers and professional users.

Specifications

Model Name	Biwin Black Opal X570 PRO		
Form Factor	M.2 2280		
Interface	PCIe Gen5×4, NVMe 2.0		
Capacity	1 TB	2 TB	4 TB
DRAM Cache	1 GB	2 GB	4 GB
Sequential Read (Up to)	14000 MB/s	14000 MB/s	14000 MB/s
Sequential Write (Up to)	10500 MB/s	13000 MB/s	13000 MB/s
Random Read 4K (Up to)	1600K IOPS	2000K IOPS	2000K IOPS
Random Write 4K (Up to)	1600K IOPS	1600K IOPS	1600K IOPS
Dimensions	80.00 × 22.00 × 2.50 mm (single-sided)		
Weight	≤ 9 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		
Warranty	5-Year / 750 TBW	5-Year / 1500 TBW	5-Year / 3000 TBW

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 life cycle. 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.

For more details, please visit www.biwintech.com.