



Black Opal NV7400 SSD



Biwin Black Opal NV7400 M.2 SSD offers a remarkable read speed of up to 7450 MB/s and write speed of up to 6500 MB/s, utilizing the PCIe Gen 4x4 interface and the NVMe 2.0 protocol. NV7400 is equipped with a graphene thermal pad and supports a temperature control algorithm to maintain the SSD in optimal condition. It uses a 4K LDPC error-correction algorithm paired with high-quality 3D NAND Flash to ensure data integrity.

► Product Features

PCIe Gen4×4 for Superior Performance

The NV7400 supports PCIe Gen 4x4 and utilizes the NAND flash of the latest generation, offering a transfer speed of up to 7450 MB/s and random read/ write speed of up to 1000K IOPS, which meet the needs of most creative professionals and gaming enthusiasts.

High-quality NAND flash for Big Capacity

The NV7400 SSD utilizes high-quality premium NAND flash chosen through our automated selection. Capacities of up to 4 TB are available, providing ample storage space and eliminating the anxiety of insufficient storage.

Exceptional Temperature Control for Data Safety

The NV7400 is equipped with a temperature control algorithm and a graphene thermal pad, which can reduce temperatures by up to 30%, preventing slowdowns and data loss under high loads to ensure data safety.

5-Year Warranty for Reliable Use

NV7400 offers a 5-year limited warranty with a Mean Time Between Failure (MTBF) of up to 1.5 million hours, aiming to provide users a reliable choice and a worry-free user experience.

► Biwin Storage Black Opal Series

For decades, Biwin has made the critical storage and memory 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 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 quality is top tier and results from a fusion of technological experiences. The durability matches the more strenuous needs of gamers, content providers and professional users.

► Specifications

Model Name	Biwin Black Opal NV7400			
Form Factor	M.2 2280			
Interface	PCIe Gen 4x4, NVMe 2.0			
DRAM Cache	DRAM-less			
Capacity	512 GB	1 TB	2 TB	4 TB
Sequential Read Speed (Up to)	7050 MB/s	7400 MB/s	7450 MB/s	7400 MB/s
Sequential Write Speed (Up to)	4200 MB/s	6500 MB/s	6500 MB/s	6500 MB/s
Random Read Speed (Up to)	800K IOPS	1000K IOPS	1000K IOPS	900K IOPS
Random Write Speed (Up to)	800K IOPS	900K IOPS	900K IOPS	900K IOPS
TBW	500 TBW	1000 TBW	2000 TBW	4000 TBW
Dimensions	80.00 × 22.00 × 2.45 mm (single-sided)			
Weight	≤ 9g			
Operating Temperature	0°C to +70°C			
Storage Temperature	-40°C to +85°C			
MTBF	1,500,000 hours			
Certifications	CE, FCC, RoHS, CB, KCC, BSMI, VCCI, RCM, UKCA			
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 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. Measured using the MobileMark™ 2012 benchmark with DIPM (Device Induced Power Management) enabled.
7. MTBF = Mean Time Between Failures based on internal testing using Telcordia stress testing standard.
8. For more details, please visit www.biwintech.com.

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