

AP843 SSD

BIWIN AP843 SSD integrates cutting-edge 3D TLC NAND flash and a high-performance controller, supporting PCIe Gen4×4 interface and NVMe 2.0 protocol. With hardware and firmware optimizations, this SSD delivers exceptional performance while maintaining power efficiency, offering read/write speeds up to 7000 MB/s and 6300 MB/s. Available in capacities from 512 GB to 4 TB, the AP843 provides outstanding responsiveness and fast load times for high-performance PCs and demanding applications.



Key Features

Enhanced Speeds, Smoother Computing

Featuring PCIe Gen4×4, the BIWIN AP843 offers read speeds up to 7000 MB/s and write speeds up to 6300 MB/s. This SSD ensures exceptional performance for demanding workloads, delivering high-speed data transfers and significantly boosting overall system responsiveness.

Smart Thermal Management

The BIWIN AP843 uses a single-sided design and an integrated intelligent temperature control algorithm. This design optimizes heat dissipation, preventing overheating and system instability during high-demand tasks, ensuring smooth and reliable operation during high-demand tasks.

Low Power Consumption

Equipped with intelligent power management and NVMe Power Management technology, the BIWIN AP843 ensures ultra-low power consumption. It precisely controls energy usage in both active and idle states, extending battery life for laptops and enabling longer operational times for a variety of systems.

Advanced Technology Support

The BIWIN AP843 SSD combines dynamic/static wear leveling, TRIM command, intelligent thermal throttling, garbage collection, and data erasure to provide outstanding performance and data integrity. Optimized for high-demand applications, it guarantees consistent performance, reliability, and efficient data management in various environments.

High Quality for Enhanced Reliability

Built with premium flash memory chips, the BIWIN AP843 passes rigorous electrical, application, and compatibility tests to ensure top performance. Backed by a 3-year warranty and technical support, it offers complete peace of mind, keeping your data safe and your system running smoothly.

Technologies

Modern Standby

ATA Encryption

End-to-End Data Protection

S.M.A.R.T.

Garbage Collection

TRIM Command

Dynamic/Static Wear Leveling

In-drive RAID

Bad Block Management

Read Scrub

SLC Cache Acceleration

Intelligent Thermal Throttling

ESD Protection

Read Interference

Firmware Update

Applications



Desktop



Laptop



Tablet



All-in-One PC



Thin Client



Mini PC

Model Name	AP843
Interface	PCIe Gen4x4, NVMe 2.0
Form Factor	M.2 2280
Flash Type	3D TLC
Firmware	SLC Cache
DRAM Cache	DRAM-less
Capacity	512 GB / 1 TB / 2 TB / 4TB
Sequential Read (Up to)	7000 MB/s
Sequential Write (Up to)	6300 MB/s
Random Read 4K (Up to)	1000K IOPS
Random Write 4K (Up to)	1000K IOPS
Read Power Consumption (Max.)	5.3 W
Write Power Consumption (Max.)	5.2 W
Idle Power Consumption (Max.)	50 mW
Dimensions	22.00±0.15 x 80.00±0.15 x 2.83 (Max) mm
Operating Temperature	0°C to + 70°C
Storage Temperature	-40°C to + 85°C
MTBF	>1,500,000 hours
Certifications	CE, FCC, RoHS, HF, REACH
Limited Warranty	3-Year / 3000 TBW

Order Information

Capacity	Part Number
512 GB	CE980V88900-512
1 TB	CE980V88900-1TB
2 TB	CE980V88900-2TB
4TB	CE980V88900-4TB

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 the Telcordia stress testing standard.
7. Please visit www.biwintech.com for warranty details in your region.
8. For more information, please contact sales@biwintech.com.

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