

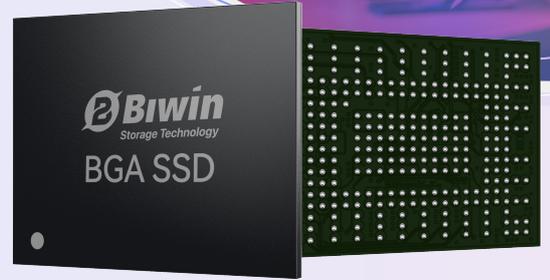
EP410

BIWIN EP410 PCIe Gen4x4 BGA SSD provides exceptional performance and efficiency for demanding applications.

With the NVMe 2.0 protocol, the EP410 SSD delivers sequential read speeds up to 7300 MB/s and write speeds up to 6300 MB/s.

Compact in design, the EP410 SSD measures just 16.00 x 20.00 x 1.40 mm and provides capacities ranging from 256 GB to 2 TB.

Leveraging advanced optimizations in both hardware and firmware, the EP410's exceptional performance and power efficiency provides distinct advantages in mobile smart device applications, including high-performance ultrabooks, tablets, autonomous driving systems, drones, and other advanced applications.



Key Features

High-Performance Storage

The BIWIN EP410 SSD PCIe Gen4x4 NVMe 2.0 interface offers impressive sequential read speeds up to 7300 MB/s and write speeds up to 6300 MB/s. These high-performance speeds result in faster data access, reducing system load times and improving overall responsiveness.

Efficient Thermal Management

The BIWIN EP410 SSD uses advanced packaging technology paired with a thermal management algorithm to regulate operating temperatures effectively. This system ensures the SSD operates within optimal temperature ranges, preventing overheating during intensive tasks and ensuring stable performance throughout prolonged use.

Low Power Consumption

The BIWIN EP410 SSD is equipped with an advanced intelligent power management unit, using NVMe power management technology. By leveraging precise control and optimization through its firmware, the drive ensures ultra-low power consumption in both operational and idle states, enhancing battery life for devices.

Data Protection Features

The BIWIN EP410 SSD comes with a comprehensive set of data protection features, including dynamic and static wear leveling, TRIM command, S.M.A.R.T., intelligent thermal throttling, garbage collection, and data erasure, ensuring smooth and reliable operation and safeguarding data with exceptional reliability.

Premium Quality Assurance

The BIWIN EP410 SSD is built with premium-grade flash memory chips, carefully selected for their consistent, high-performance reliability. Each unit undergoes comprehensive quality tests, including electrical, application, and compatibility tests. Backed by a 3-year warranty and free technical support, the EP410 offers customers peace of mind and dependable service.

Technologies

ATA Encryption

End-to-End Data Protection

S.M.A.R.T.

Garbage Collection

TRIM Command

Global Wear Leveling

In-drive RAID

Bad Block Management

Read Scrub

SLC Cache Acceleration

Intelligent Thermal Throttling

ESD Protection

Read Disturb

Firmware Update

Applications



Ultrabook



Mobile Phone



Tablet



Autonomous Driving



Drone



Network Switch

Specifications

Model Name	EP410
Interface	PCIe Gen4x4, NVMe 2.0
Flash Type	3D TLC
Firmware	SLC Cache
Capacity	256 GB / 512 GB / 1 TB / 2 TB
Sequential Read (Up to)	7300 MB/s
Sequential Write (Up to)	6600 MB/s
Random Read 4K (Up to)	1000K IOPS
Random Write 4K (Up to)	930K IOPS
Read Power Consumption (Max.)	5.3 W
Write Power Consumption (Max.)	4.9 W
Idle Power Consumption (Max.)	23 mW
Dimensions	16.00 x 20.00 x 1.40 (Max.) mm
Packaging	FBGA 291 Ball
Operating Temperature	0°C to + 70°C
Storage Temperature	-40°C to + 85°C
Endurance	3000 P/E cycles
MTBF	>1,500,000 hours
Certifications	CE, FCC, RoHS
TBW	750 TBW
Warranty	3-Year Limited

Order Information

Capacity	Part Number
256 GB	BWP3BTHQC-256G
512 GB	BWP3BTHQC-512G
1 TB	BWP3BTHQC-1TB
2 TB	BWP3BTHQC-2TB

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 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.

Global Headquarters:

BIWIN STORAGE TECHNOLOGY CO., LTD.

Building #4, South Zone #2, Zhongguan Honghualing Industrial Zone,
Nanshan District, Shenzhen, Guangdong, China
+86 (755) 2671-5701
sales@biwintech.com

