



**ENTERPRISE B-SERIES** 

# B100 Ultimate M.2 Boot Drive for Servers and Workstations

Phison's M.2 2280 enterprise SSD, the B100 features fast PCle Gen4x4 speeds paired with the industry's latest 3D NAND, delivering industry-leading performance, reliability and efficiency.



# **Product Features**

## Reliability

The B100 SSD leverages Phison's 4th generation LDPC ECC engine which can correct bits in a two stage process using a hard decoder and soft decoder. This ensures customers' data is protected throughout the life of the SSD.

### **End-to-End Data Path Protection**

From the moment data enters the B100 SSD, a parity bit is generated that follows each byte from the interface to the NAND storage area ensuring user data has the maximum protection in integrity.

### PCle Gen 4x4 and Backward Compatibility

The B100 SSD is designed with the PCle Gen4x4 interface and the NVMe 1.4 command specification, making it an excellent performance upgrade for PCle Gen3 and Gen4 M.2 2280 slots.

### **Security Features**

The B100 supports the latest security and encryption standards defined by Pyrite, AES256, SHA512, and RSA4096.





# **Solutions - B100P**

M.2 2280			
	Capacity <sup>(1)</sup>	480GB	960GB
Performance <sup>(2,3)</sup>	Sequential Read	4000 MB/s	5000 MB/s
	Sequential Write	300 MB/s	700 MB/s
	4K Random Read	250K IOPS	450K IOPS
	4K Random Write	15K IOPS	30K IOPS
Power Consumption <sup>(4)</sup>	Max	5.9 W	8.5 W
	Idle	3.5 W	3.5 W
Latency	4K Random Read	75 us	80 us
	4K Random Write	40 us	35 us
Features Fea			
Interface		PCIe 4.0 x4	
NAND Flash		3D TLC	
DWPD <sup>(5)</sup>		1	
UBER		1 in 10 <sup>17</sup>	
Operating Temperature		0°C - 70°C	
Non-Operating Temperature		-40°C - 85°C	
Key Features			
• LDPC • NVMe • End-te		<ul> <li>TCG Opal 2.0<sup>(6)</sup></li> <li>Sanitize<sup>(6)</sup></li> <li>NVME-MI<sup>(6)</sup></li> </ul>	

- (1) 1 GB = 1,000,000,000 bytes.
- (2) Sequential Performance is based on FIO on Linux, 128K, with QD=32, 1 worker, and test drive set as secondary.
- (3) Random Performance is based on FIO on Linux, 4K data size, QD=32, 1 worker, 4K aligned.
  (4) FIO with QD32 and worker 1 for 128KB sequential read/write 1min & QD32 and worker 8 for 4KB random read/write 1min test to measure the power of active read/write. (5) The results of DWPD are obtained in compliance with JESD219A Standards.
- (6) Supported by a separate firmware setting. Further information available upon request.



MaiStorage is a member of Phison group, the world's leading independent supplier of NAND controller ICs and NAND storage solutions for enterprise, consumer, and embedded markets. By leveraging Phison's proven technology, extensive expertise, and vast experiences, MaiStorage will deliver premier storage solutions tailored to diverse market needs.

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