



ENTERPRISE X-SERIES

MP-X100 SSD Platform -Outstanding Overachiever Enterprise Class PCle Gen4x4 SSD

The MP-X100 SSD platform has unrivaled performance while also consuming the least amount of power for its class. This is accomplished utilizing Miphi's unique and patented CPU architecture. X100 is available up to 30.72TB at only 21w.

Full SED or FIPS is also supported through our IMAGIN+ customization service that allows you to pick the perfect solution for your requirements.



Product Features

U.3 Compatibility

The MP-X100 SSD supports the industry's new U.3 interface and is fully backward compatible with U.2 slots, while also supporting the new U.3 slots for maximum pluggability with rack storage manufacturers.

Artificial Intelligence

Transformation of raw data into actionable intelligence requires enormous CPU and GPU resources fed by the fastest storage devices available. With random read IOPs up to 30% faster than our competitors, the X100 SSD solution is the optimal storage device for use in artificial intelligence applications.

Customizable

Miphi's business model is to customize the X100 SSD platform for our customers' unique applications and brand requirements making the X100 SSD truly unique to our partners.

Applications Servers

In computing environments with tens to thousands of employees running similar programs from centralized servers, lag time while customers or employees are waiting is unacceptable. The new X100 SSD solution is the industry's best answer to provide the fastest application speeds to help accomplish more in the day.



Solutions - MP-X100E

		U.:	3/U.2			
	Capacity	1600GB	3200GB	6400GB	12800GB	25600GB
Performance	Sequential Read	7400 MB/s	7400 MB/s	7400 MB/s	7000 MB/s	7000 MB/s
	Sequential Write	4200 MB/s	6900 MB/s	6900 MB/s	7000 MB/s	6000 MB/s
	4K Random Read	1750K IOPS	1750K IOPS	1750K IOPS	1600K IOPS	1600K IOPS
	4K Random Write	300K IOPS	460K IOPS	470K IOPS	480K IOPS	450K IOPS
Power (4)	Max	13.3 W	18.3 W	19.9 W	20.8 W	20.4 W
Consumption	Idle	5.5 W	5.8 W	5.9 W	7.4 W	8.5 W
Latency	Read Latency	110 us	100 us	100 us	100 us	90 us
Latency	Write Latency	15 us	15 us	15 us	15 us	15 us
		Fea	atures			
	Interface		PCIe 4.0 x4 (single port x4 lanes/dual port x2 lanes)			
NAND Flash		3D TLC				
	DWPD	3				
	UBER	<1 sector per 10 ¹⁸ bits				
	Operating Temperature	0°C - 70°C				
N	on-Operating Temperature	-40°C - 85°C				
		Key F	eatures			
 Enterprise features support list: Namespace Dual port Reservation Metadata protection Power loss protection Hardware AES-XTS 256-bit end Support SMBus 		Compliance PCle 4.0 NVMe 1.4 NVMe Management Interface Rev 1.1 TCG Opal 2.0(6) Sanitize(6)				
		Part I	Number			
Single Port Non SED		MPX100E1600G-PN	MPX100E3200G-PN	MPX100E6400G-PN	MPX100E12800G-PN	MPX100E25600G-PI
Single Port SED		MPX100E1600G-PS	MPX100E3200G-PS	MPX100E6400G-PS	MPX100E12800G-PS	MPX100E25600G-P
Dual Port Non SED		MPX100E1600G-PN	MPX100E3200G-PN	MPX100E6400G-PN	MPX100E12800G-PN	MPX100E25600G-PI
Dual Port SED		MPX100E1600G-XS	MPX100E3200G-XS	MPX100E6400G-XS	MPX100E12800G-XS	MPX100E25600G-X

(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) Power consumption is measured during the sequential read/write and random read/write operations performed by iometer with the conditions described in the conditions describ (2)(3).(5) The results of DWPD are obtained in compliance with JESD219A Standards.



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