

Embedded Modules



M.2

The ATP M.2 2242/2260/2280 Embedded SSD is the Next Generation Form Factor (NGFF) storage solution. It provides outstanding performance and proven reliability for product operation, which is perfect for networking and thin clients, also suitable for enterprise storage systems consistent data integrity requirement such as POS, industrial computers, and data center applications.

Key Features

- Adheres to M.2 specification v1.0 defined by PCI-SIG
- Built-in hardware-based data protection technology during power failure
- PowerProtector
- Ultra high performance solution for small form factor embedded and industrial applications
- Supports S.M.A.R.T. ATA feature set
- RoHS compliant and CE/FCC certification

Specifications

Product Name	M.2							
	2242 SATAIII			2260 SATAIII			2280 SATAIII	
Flash Type	SLC	iTemp MLC	MLC	SLC	iTemp MLC	MLC	iTemp MLC	MLC
Density	8GB to 64GB	32GB to 128GB	32GB to 128GB	32GB to 128GB	64GB to 512GB	64GB to 512GB	128GB to 1TB	128GB to 1TB
Performance	Sequential Read up to 530MB/s	Sequential Read up to 520MB/s		Sequential Read up to 530MB/s	Sequential Read up to 550MB/s		Sequential Read up to 550MB/s	
	Sequential Write up to 400MB/s	Sequential Write up to 150MB/s		Sequential Write up to 430MB/s	Sequential Write up to 450MB/s		Sequential Write up to 450MB/s	
	Random Read IOPS up to 76,000	Random Read IOPS up to 67,800		Random Read IOPS up to 76,000	Random Read IOPS up to 70,000		Random Read IOPS up to 70,000	
Interface	SATA III 6 Gb/s							
Operating Temperature	-40°C to +85°C	-40°C to +85°C	0°C to 70°C	-40°C to +85°C	-40°C to +85°C	0°C to 70°C	-40°C to +85°C	0°C to 70°C
Reliability	TBW* (max.) : 5,333 TB	TBW* (max.) : 267 TB	TBW* (max.) : 320 TB	TBW* (max.) : 10,667 TB	TBW* (max.) : 1,067 TB	TBW* (max.) : 1,280 TB	TBW* (max.) : 2,133 TB	TBW* (max.) : 2,560 TB
	MTBF @ 25°C: >2,000,000 hours							
Dimensions: LxWxH (mm)	42.0 X 22.0 X 3.5			60.0 X 22.0 X 3.5			80.0 X 22.0 X 3.5	

*All TBW data listed are under highest sequential write value in each product line.
The TBW data are subject to change by density, configuration and customers' applications.

