



# ATP Embedded Modules M.2

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



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 and consistent data integrity requirement such as POS, industrial computers, 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
- Supports S.M.A.R.T. ATA feature set
- RoHS compliant and CE/FCC certification

## Applications

- Networking
- Thin clients
- Enterprise storage systems



Life Monitor



Secure Erase



PowerProtector

## Specifications

Product Name		M.2							
		2242 D2-B-M			2260 D2-B-M			2280 D2-B-M	
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 256GB	64GB to 256GB	128GB to 512GB	128GB to 512GB
Performance	Sequential Read	up to 530 MB/s	up to 520 MB/s	up to 520 MB/s	up to 530 MB/s	up to 530 MB/s	up to 530 MB/s	up to 530 MB/s	up to 530 MB/s
	Sequential Write	up to 400 MB/s	up to 150 MB/s	up to 150 MB/s	up to 430 MB/s	up to 310 MB/s	up to 310 MB/s	up to 440 MB/s	up to 440 MB/s
	Random Read IOPS	up to 76,000	up to 67,800	up to 67,800	up to 76,000	up to 70,000	up to 70,000	up to 71,000	up to 71,000
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		Advanced Wear Leveling, AutoRefresh							
		TBW*(max.): 5333.33 TB	TBW*(max.): 266.67 TB	TBW*(max.): 320 TB	TBW*(max.): 10,666.67 TB	TBW*(max.): 533.33 TB	TBW*(max.): 640 TB	TBW*(max.): 1,066.6 TB	TBW*(max.): 1,280 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.

## Ordering Information

Density	2242 D2-B-M			2260 D2-B-M			2280 D2-B-M	
	SLC	iTemp MLC	MLC	SLC	iTemp MLC	MLC	iTemp MLC	MLC
8GB	AF8GSSIA-VAAXP	-	-	-	-	-	-	-
16GB	AF16GSSIA-VAAXP	-	-	-	-	-	-	-
32GB	AF32GSSIA-VAAXP	AF32GSMIA-VABIP	AF32GSMIA-VABXP	AF32GSSIB-VAAXP	-	-	-	-
64GB	AF64GSSIA-VAAXP	AF64GSMIA-VABIP	AF64GSMIA-VABXP	AF64GSSIB-VAAXP	AF64GSMIB-VABIP	AF64GSMIB-VABXP	-	-
128GB	-	AF128GSMIA-VABIP	AF128GSMIA-VABXP	AF128GSSIB-VAAXP	AF128GSMIB-VABIP	AF128GSMIB-VABXP	AF128GSMIC-VAAIP	AF128GSMIC-VAAXP
256GB	-	-	-	-	AF256GSMIB-VABIP	AF256GSMIB-VABXP	AF256GSMIC-VAAIP	AF256GSMIC-VAAXP
512GB	-	-	-	-	-	-	AF512GSMIC-VAAIP	AF512GSMIC-VAAXP

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