ADATA Industrial & Embedded Solutions

M.2 SSD

The AADATA IM2P33F8 NVMe 1.3 PCIe Gen3x4 M.2 2280 solid state drive utilizes 3D NAND flash and provides R/W performance of up to 2000/1500MB per second, as well as amazing reliability, durability, and stability. The comparable cost of the IM2P33F8 with SATA SSDs makes it a viable solution for upgrading a system. It supports Host Memory Buffer (HMB) for improved random R/W speeds, and RAID Engine and End-to-End Data Protection for data integrity and safety. It is available in capacities ranging from 128GB to 512GB, and features a slim single-sided design for high compatibility. Not only is the IM2P33F8 suitable for notebooks, desktops, servers and data centers of all types, it can also serve as a boot drive for surveillance and transportation systems. To safeguard quality, compatibility, and reliability, ADATA uses a rigorous SSD validation process that encompasses performance testing and quality assurance to ensure its SSDs meet the exacting requirements of industrial applications.

Key Features

- Fast PCIe Gen3x4 interface: R/W speed up to 2000/1500MB per second
- NVMe 1.3 support
- 3D NAND Flash for higher capacity, durability and power efficiency
- Host Memory Buffer (HMB) for enhance random read/write performance
- RAID Engine and End-to-End Data Protection

Target Applications

Server, Data Center, Surveillance, Transportation, Notebooks, Desktops

30μ Golden Finger	Anti-Sulfur Resistor	Conformal Coating	Wide Temperature	EDS & EMI Safe	Shock & Vibration Resistant	Lifetime Monitoring (LTM)	Wear Leveling	Secure Erase	TRIM	Low Power Consumption
●	●	—	●	●	●	●	●	●	●	●

● Supported

Specifications

Model	IM2P33F8
Interface	PCIe Gen3x4
Form Factor	M.2 2280
Dimensions (L x W x H)	80 x 22 x 2.25mm
Flash Type	3D TLC
Capacity	128GB / 256GB / 512GB
Sequential Read (Max.)	2000MB/s
Sequential Write (Max.)	1500MB/s
Operating Temperature (Commercial)	0°C to 70°C
Operating Voltage	3.3V
Operating Humidity	5%-95% RH non-condensing
Power Consumption (Max.)	2.8W
MTBF (Est.)	>2,000,000 hours
Shock Resistance	1500G/0.5ms, Half Sine Wave
Vibration Resistance	20G (10-2000Hz)
Technologies	HMB, RAID Engine, End-to-End Data Protection, S.M.A.R.T., Wear Leveling

Ordering Information

Capacity	Commercial (0°C to 70°C)
128GB	IM2P33F8-128GD
256GB	IM2P33F8-256GD
512GB	IM2P33F8-512GD

Dimensions

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