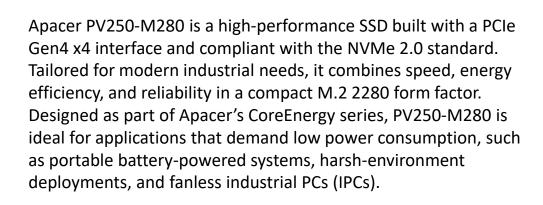
## The Most **Reliable** Storage For Industries

### PV250-M280



#### **Overview**

PV250-M280





At the heart of PV250-M280 lies Apacer's CoreEnergy Technology — a comprehensive firmware and hardware solution that empowers users to dynamically manage power and performance profiles. With a built-in DIP switch and intuitive CoreEnergy software utility, users can easily toggle between multiple preset energy modes. For more advanced control, the utility also offers an "Advanced Energy Mode" for fine-tuning system-level parameters, ensuring peak performance without compromising energy savings or thermal stability.

To ensure long-term durability and data integrity, PV250-M280 integrates a full suite of flash management technologies, including LDPC ECC, Bad Block Management, Global Wear-leveling, DataDefender, TRIM, Page Mapping, Hyper Cache Technology, Overprovisioning, and SMART Read Refresh. These features help maintain optimal performance and extend SSD lifespan, even under continuous and demanding workloads.

PV250-M280 also supports comprehensive security and reliability functions, including AES Encryption, TCG Opal Compliance, End-to-End Data Protection, a built-in thermal sensor, and CoreGlacier Thermal Management. With industrial-grade reliability and intelligent energy management, PV250-M280 is a robust storage solution for power-sensitive and mission-critical applications.

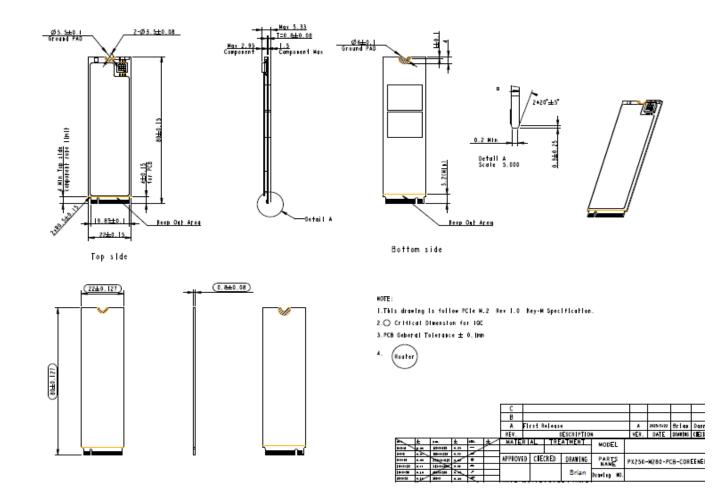
#### **Features**

- · CoreEnergy Support
- · Low-Density Parity-Check (LDPC) Code
- · Global Wear-leveling
- · Flash Bad-block Management
- · End-to-End Data Protection
- · Flash Translation Layer: Page Mapping
- · DataDefender<sup>TM</sup>
- · S.M.A.R.T.
- · TRIM
- · Hyper Cache Technology
- · Over-provisioning
- · SMART Read Refresh
- · NVMe Secure Erase

## **Specifications**

Model Name	PV250-M280
Interface	PCIe Gen4 x4
Connector	Double-sided: M.2 2280-M key
Form Factor	M.2 2280
NAND Flash Type	3D TLC
Capacity	240GB~3840GB
External DRAM	No
Sustained Read	Up to 3695
Performance (MB/sec.)	ορ to 3093
Sustained Write	Up to 3250
Performance (MB/sec.)	ορ to 3230
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	565K
Standard Operating	240GB~3840GB: 0°C ~ 70°C
Temperature ( °C )	21005 301005.00 700
Extended Operating	240GB~1920GB: -40°C ~ 85°C
Temperature ( °C )	
Storage Temperature ( °C )	-55°C ~ + 100°C
Housing	No
Thermal Sensor	Yes
Shock	Operation: Acceleration, 50(G)/11(ms)/half sine
	(Compliant with MIL-STD-202G)
	Non-operation: Acceleration, 1500(G)/0.5(ms)/half sine
	(Compliant with MIL-STD-883K)
Vibration	Operation: 7.69 GRMS, 20~2000 Hz/random
	(Compliant with MIL-STD-810G)
	Non-operation: 4.02 GRMS, 15~2000 Hz/random
Operating Voltage	(Compliant with MIL-STD-810G) 3.3V ±5%
Power Consumption	Active Mode: 1670 mA / Idle Mode: 250mA
Dimension (L x W x H )	22.00 x 80.00 x 5.33(max.)
MTBF (Hours)	>3,000,000
WITDE (HOUIS)	~3,000,000

## **Mechanical Specifications**



# For more information, contact your Apacer representative

#### **Global Presence**

Taiwan (Headquarter) Apacer Technology Inc. Tel: +886-2-2267-8000

Japan Apacer Technology Corp.

Tel: +81-3-5419-2668

Europe

Apacer Technology B.V. Tel: +31-40-267-0000

India

Apacer Technologies Pvt. Ltd. Tel: +91-80-35910296

U.S.A.

Apacer Memory America, Inc. Tel: +1-408-518-8699 China

Apacer Electronic (Shanghai) Co., Ltd.

Tel: +86-21-6228-9939