

Apacer

CoreEnergy Technology

Application-Aware SSD Power Management
Enhances Energy Efficiency



CoreEnergy delivers effective energy savings through intelligent and advanced settings, enabling users to configure energy modes tailored to specific application needs, significantly reducing power usage.



Energy Saving

Save up to 67% power consumption by energy mode adjustment, improving power efficiency and sustainability.



Overheat Prevention

Efficient power management to prevent SSD overheating, enhancing storage stability and longevity.

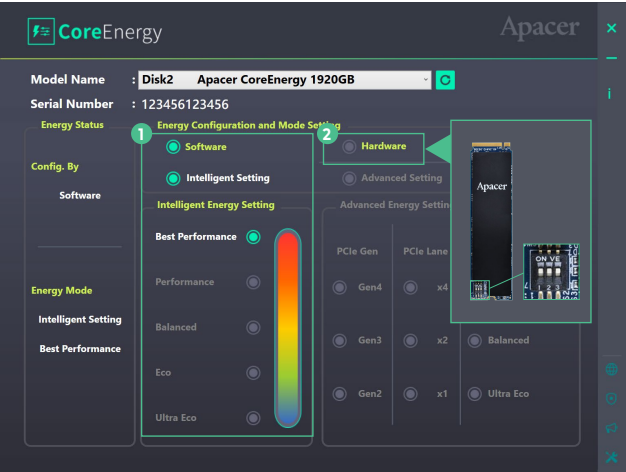


Flexible Adjustments

Intelligent and advanced settings enable to adjust SSD performance and power consumption via software or hardware.

Intelligent Energy Settings

Adjusting by ① software interface — default 5 settings or ② hardware DIP switch.



Advanced Energy Settings

Fine-tune by adjusting ③ software interface — 3 dimensions (PCIe Gen, PCIe Lane, and Access Mode).



Energy Saving via Default 5 Intelligent Settings

	Performance Remain (%)		Power Consumption Reduced by (%)	
Gen4 x4	Read	Write	Read	Write
Best Performance	100	100	0	0
Performance	94	68	3	24
Balanced	60	53	31	36
Eco	46	41	41	45
Ultra Eco	30	16	50	67

*Estimated energy savings are based on Apacer's internal laboratory results.

Product Specification



Model Name	PV250-M280
Form Factor	M.2 2280
Interface	PCIe Gen4 x4
NAND Flash Type	3D TLC
Capacity	240GB~3840GB
Max. Sequential R/W (MB/sec.)	3695/3250
Max. Random R/W (IOPS)	545K/565K
External DRAM Buffer	No
Operating Temperature (°C)	STD: 0°C ~ 70°C WT: -40°C ~ 85°C