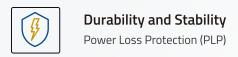# POWERGUARD

Industrial Flash Module Solutions

Powerguard (Power Loss Protection) for Your Important Data

Cervoz has developed cutting-edge flash modules with tailor-made power loss protection technology, Powerguard. Cervoz Powerguard solutions come in 2.5" SSD, mSATA, and M.2 form factors, making them perfect for embedded computers in critical applications.

The Powerguard technology provides additional power during unforeseen power outages to complete ongoing flash write operations, prevent data loss, safeguard firmware, and protect mapping table integrity.

Cervoz Powerguard solutions are ideal for unstable power supply environments or essential industrial applications such as factory automation, edge computing, data centers, transportation, medical, surveillance, and outdoor settings.

Product Features

Durability and Stability
Power Loss Protection (PLP)

40X Discharge Time
Up to 250ms discharge time than standard SSD

Target Applications

Transportation

Edge Computing

Factory Automation

Data Center

Cervoz Powerguard Solutions

Family	R336	M336	T376	T436
Form Factors	2.5" SATA, mSATA	2.5" SATA, mSATA, M.2 2280		M.2 2280
Interface	SATA III	SATA III	SATA III	PCIe Gen. 3x4
Flash Type	RO-MLC	MLC	3D TLC	
Capacity	16GB ~ 256GB	32GB~512GB	128GB~2TB	240GB ~ 1920GB
Sequential Read	Up to 550 MB/s	Up to 550 MB/s	Up to 560 MB/s	Up to 3,445 MB/s
Sequential Write	Up to 465 MB/s	Up to 450 MB/s	Up to 495 MB/s	Up to 1,000 MB/s
Power Consumption	Active mode: < 2,030mW Idle mode: < 425mW	Active mode: < 2,505mW Idle mode: < 425mW	Active mode: < 2,405mW Idle mode: < 525mW	Active mode: < 6,000mW Idle mode: < 2,000mW
With DRAM Buffer	✔	✔	✔	✔
Support AES 256-bit Encryption	–	–	✔	✔
Dynamic Thermal Throttling	–	–	–	✔
Conformal Coating	Optional	Optional	Optional	Optional
Anti-Vibration Fill	Optional	Optional	Optional	Optional
FlashMonitor	✔	✔	✔	✔
Operation Temp.	0℃ ~ 70℃ / -40℃ ~ 85℃			

Product specifications are subject to change without prior notice.

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