



M.2 NVMe SSD

Industrial Storage Solutions



The Future of High-Performance Computing and Full Automation Is Here

Cervoz offers diverse M.2 NVMe SSDs to accommodate the growing demand for high-performance data workloads in AloT, 5G and above networking, and digital twins.

Power Loss Protection SSD

Cervoz T436 PCIe Gen3x4 SSD



- 112-Layer 3D TLC
- Powerguard (PLP)
- DRAM Cache Buffer
- AES 256-bit Encryption
- Dynamic Thermal Throttling

Powerguard Test

T435 M.2 2280 256GB

Extra Power Time: <1ms



T436 M.2 2280 240GB (Powerguard) Extra Power Time: >56ms



— Input (5V) — Flash (3.3V) — Controller (1.2V) — Data Bus



How Fast Can the T441 Reach?

Ultra-Speed

Cervoz T441 PCIe Gen 4x4 SSD

- 112-Layer 3D TLC
- SLC Write Cache Technology
- DRAM Cache Buffer
- Large Capacity: max 3840 GB
- Low Power Consumption

 Sequential Read
Up to 7,100 MB/s
 Sequential Write
Up to 6,190 MB/s
 4KB Random Read
Up to 1,000K IOPS
 4KB Random Write
Up to 1,000K IOPS

 Cervoz PCle Gen4x4

 Cervoz PCle Gen3x4
 3x Faster

 Cervoz SATA SSD
 12x Faster

 12x Faster

Comparison results with specific products from Cervoz.

Overheating Solutions for High Performance



Cervoz Heatsink

For operation in extreme temperatures (-40°C to 85°C)



Dynamic Thermal Throttling

Automatic performance throttling based on the preset temp. benchmark



Cervoz FlashMonitor

Real-time storage condition monitoring software

Explore All Cervoz M.2 NVMe SSDs

Family	T405	T435	T436	T441
Form Factors	M.2 2242/ M.2 2280		M.2 2280	
Interface	PCIe Gen3x4	PCIe Gen3x4	PCIe Gen3x4	PCle Gen4x4
Connector	M.2 (M key)		M.2 (M key)	
Flash Type	3D TLC		3D TLC	
Capacity	64GB ~ 1TB	128GB ~ 1TB	240GB ~ 1920GB	480GB ~ 3840GB
Sequential Read	Up to 2,080 MB/s	Up to 2,085 MB/s	Up to 3,445 MB/s	Up to 7,100 MB/s
Sequential Write	Up to 1,640 MB/s	Up to 1,840 MB/s	Up to 1,000 MB/s	Up to 6,190 MB/s
Power Consumption	Active mode: < 3,130mW Idle mode: < 560mW	Active mode: < 3,600mW Idle mode: < 660mW	Active mode: < 6W Idle mode: < 2W	Active mode: < 11W Idle mode: < 2W
With DRAM Buffer	-	~	~	~
Powerguard (Power Loss Protection)	-	_	~	_
End-to-End Data Protection	~	~	~	v
Dynamic Thermal Throttling	~	~	~	¥
SLC Write Cache Technology	~	~	-	~
Conformal Coating	Optional	Optional	Optional	Optional
Anti-Vibration Fill	Optional	Optional	Optional	Optional
FlashMonitor	~	~	✓	~
Operation Temp.	0°C ~ 70°C / -40°C ~ 85°C			0°C ~ 70°C

Product specifications are subject to change without prior notice.



About Cervoz

Cervoz develops, produces and markets industrial storage and memory products for the professional, critical, and diverse industrial applications.

Established in 2006, Cervoz specializes in embedded components for the demanding Industrial PC market and has built up our industry experience for over a decade. We deeply understand this industry, and thus are able to offer our high quality embedded products with legacy and mainstream technology, long-term availability, BOM (bill of material) control, high reliability and top compatibility.



