

M.2 NVMe SSD

Industrial Storage Solutions



Reliable NVMe Storage for Industrial Applications

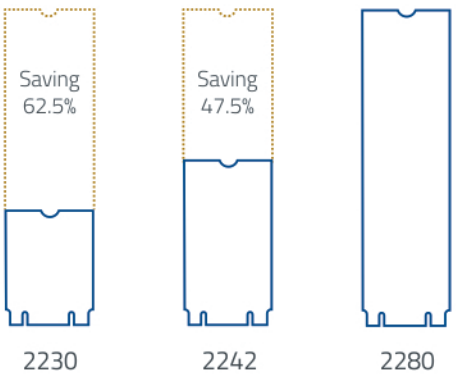
Cervoz industrial M.2 NVMe SSDs deliver high-speed PCIe performance, compact M.2 form factors, and reliable operation across multiple capacities and temperature ranges, ensuring stable storage for demanding embedded and industrial applications.

Why Choose Cervoz SSDs?



Versatile Form Factors

- Available in M.2 2230, 2242, 2280
- Flexible for Embedded Systems
- PCIe Interface for High-Speed Performance



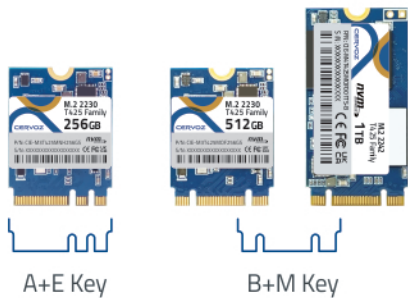
Space Saving Comparison

M.2 2230 and 2242 SSD saves more space compared to M.2 2280

Compact, High-Efficiency SSD

PCIe Gen 3x2 SSD

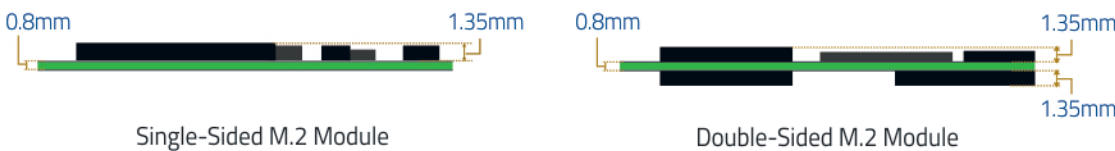
- Form Factor: M.2 2230 (A+E/B+M Key) & M.2 2242 (B+M Key)
- Maximizes Storage in Space-Limited Systems
- Wide Temp. Range: -40°C to 85°C



Single-Sided Design

PCIe Gen 4x4 SSD

- DRAM-Less Design
- Ultra Low Power Consumption
- Write Protect (Optional)
- SLC Write Cache Technology
- End-to-End Data Protection
- Dynamic Thermal Throttling



The single-sided M.2 module allows the device to be more compact for space-constrained applications.

Power Loss Protection SSD

PCIe Gen 3x4 SSD

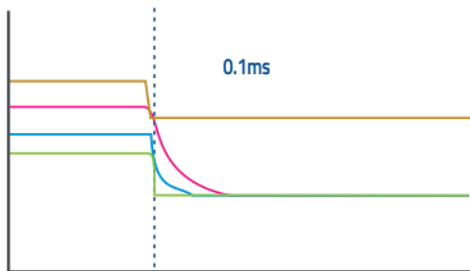
- Powerguard Function
- Supports AES 256-bit Encryption
- End-to-End Data Protection
- Dynamic Thermal Throttling



Powerguard Test

M.2 2280 256GB

Extra Power Time: <1ms



M.2 2280 240GB (Powerguard)

Extra Power Time: >56ms



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

Ultra-Speed

PCIe Gen 4x4 SSD

- Up to 3840GB
- SLC Write Cache Technology
- End-to-End Data Protection
- Dynamic Thermal Throttling



How Fast Can the Gen 4x4 SSD Reach?



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 PCIe Gen 4x4

Cervoz PCIe Gen 3x4

Cervoz SATA SSD

3x Faster

12x Faster

Comparison results with specific products from Cervoz.

Heat Dissipation Solutions



Aluminum Heatsink

15°C Cooler in operating temperature



Dynamic Thermal Throttling

Auto performance throttling based on preset temps/ benchmarks



Cervoz FlashMonitor

Real-time storage condition monitoring software

FREE

Cervoz M.2 NVMe SSD Lineup

Family	T425			T421		T405		T436		
Form Factor	M.2 2230		M.2 2242		M.2 2242		M.2 2242/80		M.2 2280	
Interface	Gen 3x2						Gen 3x4			
Connector	A+E	B+M	B+M				M			
Capacity	128GB/256GB		128GB~512GB		120GB~1920GB		128GB~1TB		240GB~1920GB	
With DRAM Buffer	-		-		-		-		√	
Powerguard (Power Loss Protection)	-		-		-		-		√	
Performance Seq. Read/Write(MB/s)	Up to 1,300/1,050		Up to 1,770/1,520		Up to 1,780/1,640		Up to 2,605/1,880		Up to 3,445/1,000	
Operating Temp.	0°C ~ 70°C / -40°C ~ 85°C									

Product specifications are subject to change without prior notice.

Family	T445/ T455		T445/ T455	T441
Form Factor	M.2 2230		M.2 2242/80	M.2 2280
Interface	Gen 4x2	Gen 4x4	Gen 4x4	
Connector	A+E	M	M	
Capacity	128GB~1TB/ 120GB~960GB		256GB~2TB/ 240GB~1920GB	480GB~3840GB
With DRAM Buffer	–	–	–	√
Powerguard (Power Loss Protection)	–	–	–	–
Performance Seq. Read/Write(MB/s)	Up to 1,865/1,740	Up to 5,090/4,740	Up to 5,080/4,740	Up to 7,100/6,190
Operating Temp.	0°C ~ 70°C / –40°C ~ 85°C			0°C ~ 70°C

Product specifications are subject to change without prior notice.

Our Value

Core Competences

We stand together with our customer through listening to the demand and feedback, using our experience and expertise to collaborate producing high reliability and compatibility product for industrial applications.



Industrial Grade Design

Only first-grade materials are used for all product lines. Our R&D expertise results in outstanding hardware and firmware designs, creating products with the highest reliability, compatibility and endurance.



Manufacturing

In the manufacturing process, we utilize the latest automation technologies. Every workflow is in line with ISO international standards to create high-yield and the highest quality products.



Product Management

We follow a unified fixed BOM principle, as well as long-term product availability in order to fulfill customers' long-term projects. Cervoz' product lifecycles are 3 to 5 years, with 8 years being the longest. We have a comprehensive ERP inventory management system with high safety stock levels ready to deliver when you need us.



Quality Assurance

For our quality assurance procedures, we test at all levels, including EVT (Engineering Verification Test), DVT (Design Verification Test) and PVT (Production Verification Test), as well as application and compliance tests. It brings Cervoz' products with high reliability and top compatibility. Cervoz' products are certified with CE, FCC, REACH and RoHS.



Premium Service

We care about every detail and exceed customers' expectations. We use our industry know-how and experience to offer premium sales and services and provide real-time technical support. Our services cover specialized testing and reporting on demand, debugging analysis, customization service and many more.

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 materials) control, high reliability and top compatibility.

CERVOZ



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