

RUGGED & DEFENSE

Memory and Storage Solutions for
Mission-Critical Applications



Cervoz provides industrial-grade
DRAM and SSD solutions for mission-critical embedded systems.

Engineered with MIL-STD-810H qualification,
ruggedized hardware design, wide-temperature support, hardware-based data protection,
strict BOM control, and long-term product availability,
our solutions help ensure reliable computing and secure data storage
throughout the entire deployment lifecycle.



Why Cervoz

Built for Mission-Critical Systems

Defense and rugged embedded platforms demand more than high performance.

They require memory and storage that can withstand harsh environments, maintain long-term availability, and protect sensitive data throughout the entire deployment lifecycle. With decades of industrial memory expertise, Cervoz delivers reliable DRAM and SSD solutions designed for demanding embedded applications.

Environmental Reliability

MIL-STD-810H Qualified

Validated for demanding environmental conditions.



Wide Temperature

Reliable operation from -40°C to +85°C.



Anti-Vibration Fill

Mechanically reinforces controllers and memory devices.



Optional Conformal Coating

Additional protection against moisture, dust, and corrosive environments.



Reliable Operation in Harsh Environments

Mission-critical embedded systems cannot tolerate unexpected downtime.

Whether deployed in defense vehicles, aerospace electronics, transportation infrastructure, or industrial automation, memory components must continue operating reliably despite shock, vibration, temperature fluctuations, and airborne contaminants.

Cervoz integrates ruggedized mechanical design and industrial-grade components to help ensure dependable operation under demanding environmental conditions.

Hardware-Level Data Protection

Data security does not end with software encryption.

Mission-critical platforms require hardware-based protection capable of safeguarding sensitive information during deployment, maintenance, redeployment, and retirement.

Cervoz integrates multiple hardware-level technologies to help reduce the risk of unauthorized access and simplify secure device management.

Multi-Layered Data Security



Write Protection

Prevent unauthorized modification of critical data.



Quick Erase

Remove all stored data within seconds before redeployment or reuse.



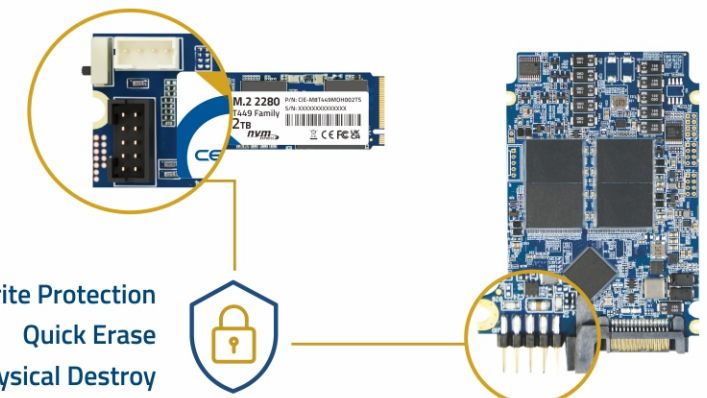
Physical Destroy

Permanently disable NAND Flash through a dedicated hardware trigger to prevent data recovery.



AES 256-bit Encryption

AES is a symmetric block cipher used to protect sensitive data. (2.5" SSD only)



Applications

Cervoz is dedicated to advancing mission-critical applications through high-durability defense and rugged storage and memory systems. We combine rigorous testing with tailored engineering to deliver robust, long-lifecycle solutions that ensure steady operational execution across complex edge devices.



Defense & Aerospace Systems

Military-grade SSDs are essential for UAV flight control systems, battlefield communication networks, and secure data storage in command centers. Their reliability ensures mission success in autonomous defense platforms, satellite systems, and avionics applications where data integrity is paramount.



Battlefield Communications

Secure, ruggedized storage for tactical communication systems, battlefield networks, and portable command systems. Enhanced security features protect classified information while maintaining operational performance under combat conditions.



Autonomous Military Platforms

Critical for autonomous ground vehicles, naval platforms, and aerial systems requiring reliable data storage and processing. Real-time decision-making capabilities depend on consistent high-speed data access in challenging operational environments.



Industrial Extreme Environments

Oil & gas exploration platforms, mining operations, and extreme industrial automation systems. Proven performance in harsh industrial conditions including offshore platforms, underground mining, and desert installations.

Rugged & Defense SSD Portfolio

	M339	T445/ T455	T449/ T459
US Military Standards	MIL-STD-810G	MIL-STD-810H	MIL-STD-810H
Form Factor	2.5" SSD	M.2 2242 M.2 2280	M.2 2280
Interface	SATA III	PCIe Gen4x4	PCIe Gen4x4
Connector	SATA (7 + 15 pin)	M.2 (M)	M.2 (M)
NAND Type	3D MLC	3D TLC	3D TLC
Capacity	32GB ~ 512GB	128GB/2TB, 120GB/1920GB	128GB/2TB, 120GB/1920GB
Sequential Read (Max)	550MB/s	5,010MB/s 5,080MB/s	5,085MB/s
Sequential Write (Max)	355MB/s	4,690MB/s 4,740MB/s	4,765MB/s
Wide Temp. (-40 ~ 85 °C)	√	√	√
DRAM Buffer	√	–	–
Powerguard (PLP)	√	–	–
Conformal Coating	Optional	Optional	Optional
Anti-Vibration Fill	√	Optional	√
AES 256-bit Encryption	√	–	–
Multi-Layered Data Security (Quick Erase/ Physical Destroy)	√	–	√
Write Protection	√	Optional	√
Cervoz FlashMonitor	√	√	√

Product specifications are subject to change without prior notice.

Rugged & Defense DRAM Portfolio

	DDR4	DDR5
US Military Standards	MIL-STD-810H	MIL-STD-810H
DIMM Type	DIMM/ SO-DIMM/ VLP DIMM/ VLP SO-DIMM	DIMM/ SO-DIMM/ VLP DIMM
Speed (MT/s)	2400MHz, 2666MHz, 2933MHz, 3200MHz	4800MHz, 5600MHz
Density	4GB, 8GB, 16GB, 32GB	8GB, 16GB, 32GB, 48GB
Function	Non-ECC, ECC, Registered+ECC	Non-ECC, ECC, Registered+ECC
Operating Temp.	0 °C ~ 95 °C	0 °C ~ 95 °C
Wide Temp	√	√
Anti-Vibration Fill	Optional	Optional
Conformal Coating	Optional	Optional

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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.

CERVOZ



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