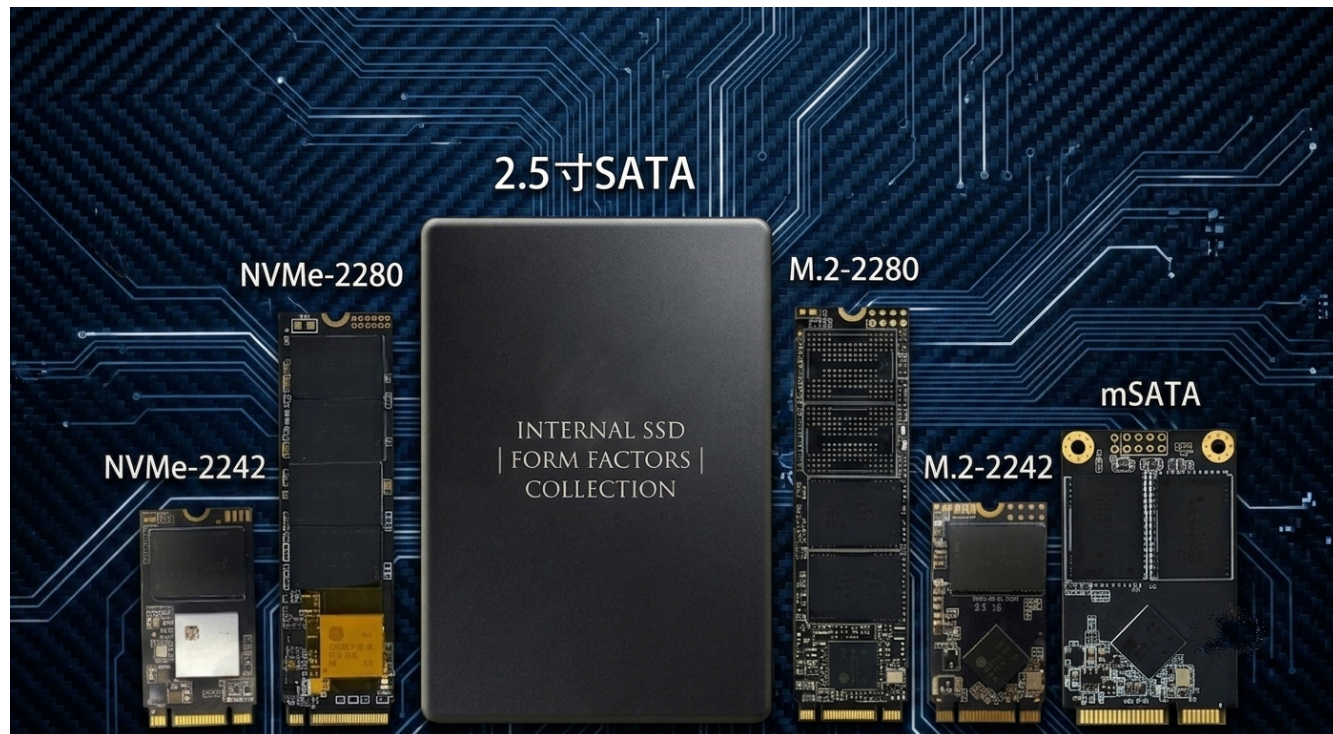




CP-VAULT SSDs

CP-VAULT offers a comprehensive range of high-performance SATA and NVMe SSDs designed for consumer electronics, industrial systems, and embedded applications. Our SSD solutions combine reliable NAND technology, advanced controllers, and flexible customization options to meet diverse requirements for performance, endurance, capacity, and operating environments.

Form Factors	2.5-inch SATA SSD · mSATA SSD · M.2 2242 SSD · M.2 2280 SSD
NVMe Interface	PCIe Gen4 NVMe — M.2 2230 / M.2 2280 SSD
Capacity Range	128GB / 256GB / 512GB / 1TB / 2TB / 4TB
Operating Temp — Commercial	0°C ~ 70°C
Operating Temp — Industrial	-40°C ~ 85°C (optional)

CP-VAULT Industrial SSDs integrate advanced controller technologies including wear leveling, garbage collection, bad block management (BBM), and NAND Flash management algorithms to enhance data reliability and extend product lifespan.

KEY BENEFITS

- Controlled BOM and Firmware – Ensures there are no changes to key components after customer qualification.
- PCN Support – All generational changes and firmware updates are handled through a controlled and timed process.
- Engineering Support – Direct contact with the CP-VAULT Field Application Engineering team for fast response to storage requirement questions and support requests.
- Global Support – CP-VAULT can coordinate SSD deliveries with a customer's ODMs or CMs in other regions of the world, if required.
- Warranty* – Industrial SSDs are backed by a limited three-year warranty and free technical support.

MARKET SEGMENTS



Point of Sale (POS)



Digital Signage



Robotics



Kiosk / ATM



Surveillance

SSD PART NUMBERS & SPECIFICATIONS (COMMERCIAL TEMP)

SATA 3.0 series (2.5 Inch) → CPV-S3T Series							
Model	Capacity	Read(MB/s)	Write(MB/s)	Interface	Flash Type	Warranty	Operating temperature
CPV-S3T-064G	64G	500	400	SATA 3.0	TLC	3 Years	0~70°C
CPV-S3T-128G	128GB	500	400	SATA 3.0	TLC	3 Years	0~70°C
CPV-S3T-256G	256GB	500	400	SATA 3.0	TLC	3 Years	0~70°C
CPV-S3T-512G	512GB	500	400	SATA 3.0	TLC	3 Years	0~70°C
CPV-S3T-1T	1TB	500	400	SATA 3.0	TLC	3 Years	0~70°C
CPV-S3T-2T	2TB	500	400	SATA 3.0	TLC	3 Years	0~70°C
CPV-S3T-120G	120G	500	400	SATA 3.0	MLC	3 Years	0~70°C
CPV-S3T-240G	240G	500	400	SATA 3.0	MLC	3 Years	0~70°C
CPV-S3T-480G	480G	500	400	SATA 3.0	MLC	3 Years	0~70°C

M.2 NVMe Series (2280, PCIe 3.0) → CPV								
Model	Capacity	Read(MB/s)	Write(MB/s)	Interface	Protocol	Flash Type	Warranty	Operating temperature
CPV-N3T80-128G	128GB	3200	2000	M.2 PCIe 3.0	NVMe	TLC	3 Years	0~70°C
CPV-N3T80-256G	256GB	3200	2000	M.2 PCIe 3.0	NVMe	TLC	3 Years	0~70°C
CPV-N3T80-512G	512GB	3200	2000	M.2 PCIe 3.0	NVMe	TLC	3 Years	0~70°C
CPV-N3T80-1T	1TB	3200	2000	M.2 PCIe 3.0	NVMe	TLC	3 Years	0~70°C
CPV-N3T80-2T	2TB	3200	2000	M.2 PCIe 3.0	NVMe	TLC	3 Years	0~70°C
CPV-N3T80-4T	4TB	3200	2000	M.2 PCIe 3.0	NVMe	TLC	3 Years	0~70°C

M.2 NVMe Series (2242, PCIe 3.0) → CPV-N3T Series								
Model	Capacity	Read(MB/s)	Write(MB/s)	Interface	Protocol	Flash Type	Warranty	Operating temperature
CPV-N3T42-256G	256GB	3500	3000	M.2 PCIe 3.0	NVMe	TLC	3 Years	0~70°C
CPV-N3T42-512G	512GB	3500	3000	M.2 PCIe 3.0	NVMe	TLC	3 Years	0~70°C
CPV-N3T42-1T	1TB	3500	3000	M.2 PCIe 3.0	NVMe	TLC	3 Years	0~70°C

mSATA Industrial Series → CPV-M3T (TLC) / CPV-M3L (MLC)							
Model	Capacity	Read(MB/s)	Write(MB/s)	Interface	Flash Type	Application	Operating temperature
CPV-M3T-032G	32GB	500	450	mSATA	TLC	Embedded Systems / Legacy Laptops	-40~80°C
CPV-M3T-064G	64GB	500	450	mSATA	TLC	Embedded Systems / Legacy Laptops	-40~80°C
CPV-M3T-128G	128GB	500	450	mSATA	TLC	Embedded Systems / Legacy Laptops	-40~80°C
CPV-M3T-256G	256GB	500	450	mSATA	TLC	Embedded Systems / Legacy Laptops	-40~80°C
CPV-M3T-512G	512GB	500	450	mSATA	TLC	Embedded Systems / Legacy Laptops	-40~80°C
CPV-M3T-1T	1TB	500	450	mSATA	TLC	Embedded Systems / Legacy Laptops	-40~80°C
CPV-M3L-032G	32GB	500	450	mSATA	MLC	Industrial Equipment / Long-Term Reliable Operation	-40~80°C
CPV-M3L-064G	64GB	500	450	mSATA	MLC	Industrial Equipment / Long-Term Reliable Operation	-40~80°C
CPV-M3L-128G	128GB	500	450	mSATA	MLC	Industrial Equipment / Long-Term Reliable Operation	-40~80°C
CPV-M3L-256G	256GB	500	450	mSATA	MLC	Industrial Equipment / Long-Term Reliable Operation	-40~80°C
CPV-M3L-512G	512GB	500	450	mSATA	MLC	Industrial Equipment / Long-Term Reliable Operation	-40~80°C

Naming Convention

CPV-[Interface][Gen][Flash]-[Capacity] · Interface: S=SATA, N=NVMe, M=mSATA · Gen: 3=Gen 3 · Flash: T=TLC, L=MLC

For More Information

Please contact your CP-VAULT representative for regional availability, sampling, and pricing.

** Limited warranty based on 3 years or "Percentage Used," which can be found using any available SMART Attribute Reader. For NVMe SSDs, a new unused product will show a Percentage Used value of 0, whereas a product that reaches its warranty limit will show a Percentage Used value greater than or equal to one hundred (100). See cp-vault.com/warranty for details.*

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CP VAULT STORAGES

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