

Empower Smart Industrial Applications with Embedded Flash Storage

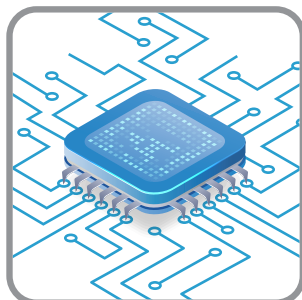
MEMXPRO provides reliable industrial and enterprise grade memory and flash storage solutions with integrated design services to cater for the highly customized needs of industrial OEM customers. Products are used in a variety of applications including industrial IoT, automation and manufacturing, machine vision, environmental control, military and aerospace, network and communications, automotive and transportation, video surveillance, medical & healthcare, gaming, retail and more.



Engineered for Industrial Needs



Compact, high performance storage choices for industrial applications.



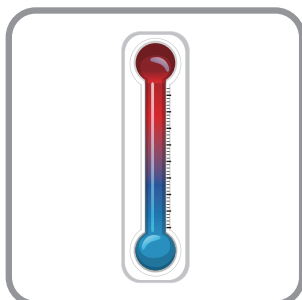
Original branded ICs:
MLC: 3,000 P/E cycles
TLC: 10,000 P/E cycles.



Extended lifespan:
StrongMLC: 20,000 P/E cycles
StrongTLC: 40,000 P/E cycles.



Data security features, including AES 256-bit encrypted SSD compliant with TCG OPAL2.0.



Wide (-40-85°C) and extended (-25-85°C) temperature solutions for harsh environments.



Conformal and side fill coatings boost industrial-grade ruggedness.



OCP/OVP and PowerPlus power failure protection ensures superior data integrity.



mSMART device monitoring and mCOVER data backup and recovery enhance security.

Case Studies

Various Capacity Storage Solutions for Harsh Environments



mSATA EM31

- SATA 6Gb/s
- MLC / 64GB



2.5" SSD E231

- SATA 6Gb/s
- MLC / 4TB



2.5" SSD ET30

- SATA 6Gb/s
- 3D TLC / 1TB



M.2 2280 PCIe PT33

- PCIe Gen3 x4
- 3D TLC / 1TB



Railway Video Surveillance

MEMXPRO's memory products are installed in network video recorders (NVR) in the carriages to capture video for safety and security.

- MLC SSDs have been used and trusted in the industry for many years. They replace HDDs and offer great shock and vibration resistance, improving transmission speed and reliability.
- Trains travel great distances and ambient temperatures constantly change. So 4TB large capacity storage with extended temp. (-25~85°C) SSDs have chosen for video surveillance.



Streetlight AI Box

AlMobile focuses on AIoT solution development. They created a custom platform for front-end edge AI and back-end maintenance. Their smart street lighting systems are equipped with MEMXPRO NVMe and SATA SSDs, as well as MEMXPRO's industrial-grade SSDs because they can survive the harshest conditions.

- Long-lasting and durable SATA 3 and gen3 PCIe x4 TLC SSDs with 10,000 P/E cycles.
- MEMXPRO overcome the thermal issue during wide temp. (-40~85°C) NVMe SSD's high-speed transmission.
- End-to-end data path protection and advanced ECC engine ensures data integrity.

MEMXPRO Flash Storage Standard Product Portfolio

Information: 1. Capacity 2. Seq. Read/Write (MB/s)

Model Name	Interface	Flash Type	U.2 PCIe 2.5" SATA SSD	M.2 2280	M.2 2242	Half Slim	mSATA	Mini mSATA	SATA Module	CFast	P/E Cycle	DRAM Buffer
EM31	SATA 3	industrial MLC	64~256GB 505/330	32~256GB 505/330	16~128GB 520/200	16~256GB 505/330	16~256GB 505/330	16~64GB 350/100	16~64GB 350/100	16~64GB 525/100	3K	N
E231	SATA 3	industrial eMMC MLC	1~4TB 516/425	128~256GB 530/350	256GB 130/132	512~1TB 520/410	512~1TB 517/407				3K	N
PM31	SATA 3	industrial MLC	16~512GB 545/455	128~256GB 530/350							3K	Y
RM31 (+PowerPlus)	SATA 3	industrial MLC	16~512GB 545/455								3K	Y
EB31	SATA 3	StrongMLC mode	32~128GB 515/420	32~128GB 515/420	8~64GB 515/305	8~128GB 515/420	8~128GB 515/420	8~32GB 355/155	8~32GB 355/155	8~32GB 510/160	20K	N
PB31	SATA 3	StrongMLC mode	32~256GB 550/440	64~128GB 550/440							20K	Y
RB31 (+PowerPlus)	SATA 3	StrongMLC mode	32~256GB 550/440								20K	Y
ET30	SATA 3	industrial TLC	64G~1TB 550/515		64G~512GB 550/515	64G~1TB 550/515	64G~1TB 550/515				10K	N
PT31 RT31 (+AES)	SATA 3	industrial TLC	128G~2TB 560/525	128G~1TB 560/520							10K	Y
PT33 (+AES)	PCIe Gen3x4	industrial TLC	128GB~1TB 2090/1880	128GB~1TB 2090/1880							10K	Y
PC32 (+AES)	PCIe Gen3x4	StrongTLC mode		80~320GB 3250/2980							40K	Y

Note: MEMXPRO reserves the right to improve the products described in this specification table at any time without notice.

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