

NVMe SSD for edge AI computing

PCIe Gen4 x4 compatible: M.2 2280 / U.2 / E1.S

N700K Series

new product

Edge-AI “performance” with “reliability”
for industrial applications

Uses an enterprise-grade
controller
Industrial SSD equipped
with TLC NAND



EDGE AI COMPUTING

Key strengths / design concept

- **Keep running: Sustained Performance**

Maintains stable effective performance by suppressing speed drops even during continuous read/write operations over extended periods.

Minimizes sudden speed drops and helps sustain performance during long processing periods.

- **Won't corrupt: consistency protection during power loss (power-loss tolerance)**

Automatic control from voltage-drop detection through safe shutdown protects file-system consistency even during power loss.

Internal capacitors (PLP) and firmware control minimize the risk of data corruption.

Features

Data integrity & reliability

- Full PLP for reliable data writes
- E2E Data Path Protection for reliable data reads/writes

Stable performance

- Sustained Sequential Read: 7,210MB/s Write: 2,020MB/s
- Sustained Random Read: 822K IOPS Write: 196K IOPS (varies by workload and temperature)
- Focus on QoS / low latency

Environmental robustness

- Guaranteed operating temperature: -40°C to 85°C (extended temperature model)

Security & data protection

- TCG Opal 2.0 (optional)
- Sanitize (optional)

Operations & support

- Fixed BOM (key components)
- PCN/EOL support
- long-term availability
- Japan-based support
- Lifetime diagnostics using S.M.A.R.T. data

Product specifications

Item	N700K Series		
Interface	PCI Express Gen4x4		
Form factor	M.2 2280	U.2	E1.S
DRAM	Included		
NAND	TLC BiCS5		
Capacity (standard temperature model)	480GB to 3,840GB	480GB to 7,680GB	480GB to 7,680GB
Capacity (extended temperature model)	480GB to 1,920GB	960GB to 3,840GB	960GB to 3,840GB
P/E cycles	3,000 cycles		
Data retention	Initial 10 years; at end of life 1 year		
Operating temperature (standard temperature model)	0°C to 70°C		
Operating temperature (extended temperature model)	-40°C to 85°C		
PLP	Included		
Security features	TCG Opal 2.0 (optional)		
	Secure Erase / Sanitize (optional)		
	NVMe-MI (optional)		
S.M.A.R.T.	Supported		
Support tool	LiveMonitorPlus		
Documentation compliance	RoHS certificate, chemSHERPA		



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