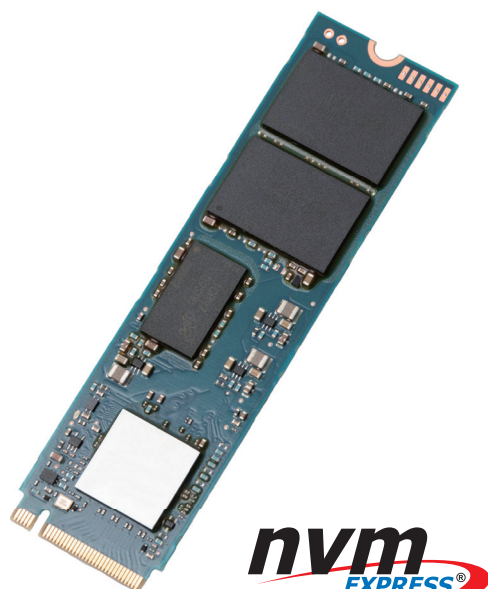


Enterprise-Class High Reliability for Industrial Systems Requiring High-Speed Processing.

New model in the H Series optimized for storing OS and system data!"

PCIe Gen3 / NVMe 1.4 Equipped with 3D NAND flash memory Industrial M.2 2280 SSD H Series

3D NAND SSD for embedded applications for industrial equipment, developed and manufactured in Japan. Equipped with original firmware that improves the reliability of recorded data and ensures long-term stable operation, this storage product is ideal for storing OS and system data in next-generation systems that require high-speed data processing and high-speed data transfer.



Main Features

- **PCIe Gen3 / NVMe Revision 1.4**
- Three types of 3D NAND flash memory
 - KIOXIA BiCS5 (standard / extended temperature)
 - Micron B27C (extended temperature)
- Temperature-extended product supports **-40°C~85°C**
- High reliability User Bit Error rate 1E-17
- Long-term supply models available until **2027**
- life-time diagnostic tool 「Live Monitor Plus」
- **Fixed specifications / 4M compatible**

Main Functions

- End to End Data Path Protection
- Internal RAID and retry functions

Applications

Data loggers that record sensing data in the development of automated driving, and image inspection equipment in production plants and hospitals, In broadcasting equipment, recorder equipment that requires high-speed data transfer speeds and transmission equipment that also requires reliability, and in communications In the telecommunications field, 5G-related equipment is being considered for use.



Automatic Operation



Video / Broadcasting



Medical / Diagnostic Imaging



Communication/5G related



AI Solutions



Workstation



Flight Recorder

Lineups

Form factor		NAND	Capacity	Product Number
Standard Operating Temperature : (0~70℃)		3D NAND TLC (KIOXIA BiCS5)	240GB	SN8E-240GA00LN
			480GB	SN8E-480GA00LN
			960GB	SN8E-960GA00LN
			1920GB	SN8E-1920A00LN
Wide Temperature Operating Temperature : (-40~85℃)		3D NAND TLC (KIOXIA BiCS5 Wide Temperature)	240GB	SN8E-240GA00LI
			480GB	SN8E-480GA00LI
			960GB	SN8E-960GA00LI
			1920GB	SN8E-1920A00LI
		3D NAND TLC (KIOXIA BiCS5 Wide Temperature) SLC mode P/E cycle Approx. 20x!	80GB	HN8E-080GA00LI
			160GB	HN8E-160GA00LI
			320GB	HN8E-320GA00LI
			640GB	HN8E-640GA00LI
	Long-term supply model <End of 2027>	3D NAND TLC (Micron B27C Wide Temperature)	240GB	SN8E-240GA00UI
			480GB	SN8E-480GA00UI
			960GB	SN8E-960GA00UI
			1920GB	SN8E-1920A00UI
		3D NAND TLC (Micron B27C Wide Temperature) SLC mode P/E cycle Approx. 20x!	80GB	HN8E-080GA00UI
			160GB	HN8E-160GA00UI
			320GB	HN8E-320GA00UI
			640GB	HN8E-640GA00UI

Product Specifications

Form factor		Standard	Wide Temperature			
			Long-term supply model			
Interface		PCIe Gen3 x4 NVMe 1.4	PCIe Gen3 x4 NVMe 1.4		PCIe Gen3 x4 NVMe 1.4	
NAND		3D TLC (KIOXIA BiCS5)	3D TLC (KIOXIA BiCS5 Wide Temperature)		3D TLC (Micron B27C)	
Capacity		TLC 240~1920GB	TLC 240~1920GB	SLC mode 80~640GB	TLC 240~1920GB	SLC mode 80~640GB
Transfer speed (Max)	Sequential Read	1,590 MB/sec	1,590 MB/sec		1,550 MB/sec	
	Sequential Write	1,520 MB/sec	1,530 MB/sec		1,500 MB/sec	
	Random Read(4KB)	207,000 IOPS	210,000 IOPS		180,000 IOPS	
	Random Write(4KB)	268,000 IOPS	273,000 IOPS		260,000 IOPS	
Current Consumption (Max)	Active(average)	963 mA	918 mA		1,350 mA	
	Idle(average)	115 mA	115 mA		134 mA	
P/E cycle		TLC 3,000	TLC 3,000	SLC mode 60,000	TLC 3,000	SLC mode 60,000
TBW(Max)		1,640 TB	1,510 TB		1,920 TB	
MTBF		4,500,000 hours	4,500,000 hours		5,000,000 hours	

Expandable model with a maximum capacity of 8TB is also lined up!
PCI Gen4 products are now available in the “F Series” of industrial grade high-speed SSDs.

U.2

- PCIe Gen4 x4
- 960GB~7,680GB

M.2 2280

- PCIe Gen4 x4
- 960GB~3,840GB

CFexpress TypeB

- PCIe Gen3 x2
- 128GB~960GB

under development



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