

Industrial-Grade 112-Layer 3D NAND SSDs with DRAM Cache

Transcend Information, Inc. (Transcend®), a leading manufacturer of embedded memory products, released its industrial-grade 112-layer 3D NAND SSDs designed with DRAM cache. The outstanding random speeds and endurance are ready to serve the 5G communication and AIoT markets as digital transformation continues apace. Smart infrastructures have been deployed globally, and the demands for IoT, edge computing, and industrial automation heightened. Transcend's storage solutions are expected to satisfy these critical missions.

Transcend SSDs are built with high-quality 112-layer flash memory and a DRAM cache, which temporarily stores data, shortening the data processing time and increasing random read speed. As the data can be accessed on the DRAM cache instead of the flash, the number of NAND flash being written is reduced, prolonging the lifespan of flash memory while increasing the drive endurance. The drives come with a PCIe and SATA III 6Gb/s interface, covering various form factors including 2.5", M.2, mSATA, and half-slim types. With 3K P/E cycles and capacities of up to 4TB, the SSDs are capable of working under an extended temperature range (-20°C~75°C). Wide-temperature (-40°C~85°C) models are available to withstand harsh industrial conditions.

Transcend uses flash memory made by global suppliers. Advanced manufacturing processes and firmware optimization technology are incorporated to ensure higher reliability and data integrity. This includes Corner Bond, 30μ" gold finger, ECC mechanism, and Dynamic Thermal Throttling, etc. Additionally, Transcend's Control Center, an exclusively-designed software tool, helps enterprises efficiently manage edge storage devices at scale, pushing forward industrial innovation.

As a leading brand of embedded storage devices cultivating in the storage industry for over three decades, Transcend has served clients with a professional R&D team and global tech support team. With manufacturing based in Taiwan, Transcend continues to implement stringent quality control and product lifecycle management to provide reliable storage solutions.

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Interface	NVMe PCIe Gen4 x4 (8CH)	NVMe PCIe Gen4 x4 (4CH)	SATA III 6Gb/s				
Product	MTE720T	MTE710T	SSD470K	MTS970T	MTS570T	MSA470T	HSD470T
Form Factor	M.2 2280		2,5"	M.2 2280	M.2 2242	mSATA	Half-Slim
Capacity	256GB - 2TB		128GB - 4TB	128GB - 2TB	128GB - 1TB	128GB - 1TB	128GB - 1TB

Transcend's embedded SSDs are covered by a three-year limited warranty.