



5G

5G



Gaming



Data Center



Edge



AIoT

Industrial-Grade PCIe 4.0 SSDs

Unlock Speed and Reliability for Data-Intensive Workloads

The Industrial-Grade PCIe Gen4 x4 NVMe SSDs unleash the power of next-gen computing, particularly suitable for 5G and AIoT applications and an excellent option in the gaming, data center, edge devices, and enterprise fields.

innodisk

Innodisk introduces the high performance Industrial-Grade PCIe 4.0 SSDs. With the PCIe 4.0 technology adoption, it features higher speed, wider bandwidth, and larger capacity compared to the products that apply PCIe 3.0 and even wide temperature tolerance from -40 to 85°C to handle challenging industrial settings.

Besides, for higher data protection in the mass data era, the Innodisk Industrial-Grade PCIe 4.0 SSDs support the self-developed iCell technology to prevent data loss and device restarting issues during unexpected power failures.



2x Speed

Twice as fast as the PCIe 3.0 products by employing PCIe 4.0 technology to reach double bandwidth of 16GT/s and a maximum capacity of 4TB; It is downwards compatible with PCIe 3.0.



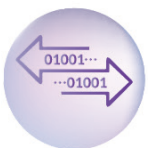
Efficient Cooling

Maximizes heat dissipation area with integrated graphene heat sink for efficient cooling that maintains reading and writing performance in levels.



Thermal Throttling

Uses data flow to reach smooth speed decrease control. As the temperature increases, it avoids sudden speed drop while the temperature is over the threshold.



Ultra-data Transferring

Features an 8-channel controller and supports a hybrid mode SLC cache to reach a reading speed of up to 7,150 MB/s and a writing speed of up to 5,250 MB/s.



3D TLC NAND Flash

100% industrial-grade NAND with the newer process with 3D TLC 112 layers and higher capacity support to achieve 3,000 P/E cycles and a longer lifespan.



iCell Technology

Ensures reliable data protection by using capacitors with voltage detectors for instant and secure transfer of buffer data to flash storage. Its advanced data buffer management guarantees safe storage of all data in the flash chip before any power loss.

Model Name		4TG2-P	4TE2	4TE3
Interface		PCIe Gen4 x4		
DRAM		With DRAM	Without DRAM	
Form Factor		M.2 2280/22110/U.2	M.2 2242/2280/CFexpress	M.2 2230/2242/2280/CFexpress/nanoSSD
Capacity		P80: 512GB-4TB (iCell only for 512GB-2TB) P110: 512GB-4TB U.2: 512GB-8TB	128GB-2TB	128GB-2TB
Sequential R/W (MB/sec, max.)		7150/5250	3600 / 3500	3650/3400
Temperature	Standard Grade	0°C ~ +70°C		
	Industrial Grade	-40°C ~+85°C		
Key Feature		High capacity High sustained performance Support Innodisk Feature Optional support AES、TCG OPAL	High performance Support Namespace Optional support AES、TCG OPAL、iSLC	High performance Optional support Namespace、AES、TCG OPAL、iSLC
iCell		Support in M.2/U.2 form factor		

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