CoreX EXPRESS

M.2 PCIe Gen 5.0 NVMe SSD

TwinMOS® Since 1998



3D NAND TLC Built for AI

Description

Engineered for extreme performance, the TwinMOS CoreX Express AI Ready PCIe Gen 5 NVMe SSD combines a cache-free Gen5 x4 controller and 3D TLC NAND to deliver breakthrough speeds and lower latency for gamers, creators, and power users. Built with rigorously tested original memory chips and backed by a 5-year warranty, it features advanced data protection like AES-256 and TRIM, S.M.A.R.T. health monitoring, intelligent thermal regulation to prevent overheating, and specialized AI algorithms for rapid model loading and multi-modal tasks.



Specification

- **Model:** TwinMOS CoreX EXPRESS
- **Interface:** PCIe® Gen5X4, NVMe™ 2.0
- **Form Factor:** M.2 2280
- **Sequential Read Speed:** Up to 14,850 MB/s
- **Sequential Write Speed:** Up to 11,000 MB/s
- **NAND Flash Type:** 3D TLC NAND
- **Heatsink:** Integrated Graphene heat sink for superior thermal management
- **Shock Resistance:** 1500G / 0.5ms
- **Operating Temperature:** 0°C to 70°C
- **Storage Temperature:** -40°C to 85°C
- **MTBF:** 1.5 million hours
- **Dimensions:** 80mm x 22mm x (varies with heatsink)
- **Weight:** ~9g (with heatsink)
- **System Compatibility:** Windows, Linux
- **Advanced Features:**
  - S.M.A.R.T monitoring
  - TRIM support
  - LDPC ECC (Error Correction Code)
  - Dynamic Wear Leveling
- **Certifications:** RoHS, CE, FCC
- **Warranty:** 5 Years

Ordering Information

EAN CODE	PART #	CAPACITY
6291104608559	NVCEX2TBG52280	2TB
6291104608566	NVCEX4TBG52280	4TB

Performance

CAPACITY	Sequential Read Speed Up to (MB/s)	Sequential Write Speed Up to (MB/s)	4k Random read IOPS (Max.)	4K Random write IOPS (Max)	Endurance (TBW Max Capacity)
2TB	14850 MB/s	10000 MB/s	1500K	1500K	1500 TBW
4TB	14500 MB/s	11000 MB/s	1500K	1500K	3000 TBW

[1] 1GB=1,000,000,000 Bytes. In OS system, it would be displayed as 1,000,000,000 Bytes/1024/1024/1024 = 0.95 GB
[2] Definition and conditions of TBW (Terabytes Written) are based on JEDEC standard
[3] Transmission speed will vary according to different hardware/software conditions, therefore the data can only use for basic reference.

- We reserve the right to modify product specifications without prior notice. Different devices may have a different best format for usage. It is recommended to format the device before use to ensure the correctness and the integrity of the SSD.

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