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INDUSTRIAL PRODUCT DATASHEET

NVMe M.2 2280 SSD 2TB

A 2TB NVMe M.2 2280 SSD with PCIe Gen3x4, NVMe 1.3c, BiCS FLASH™, and included cooling fin for easy, low-latency upgrades.

SKU

114993467

UPDATED

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PRICE

\$279.00(Excl. VAT)



Overview

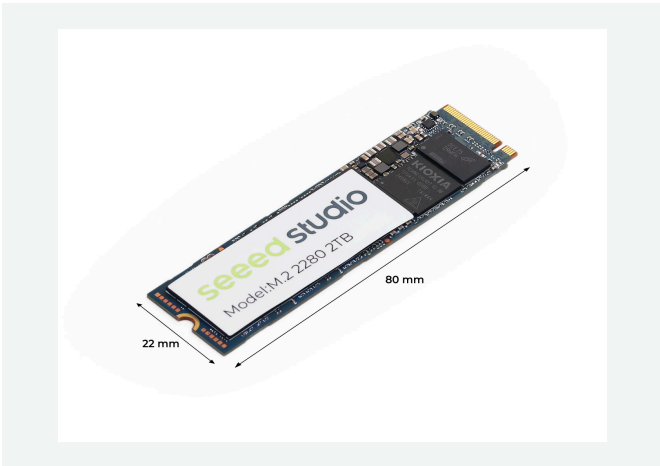
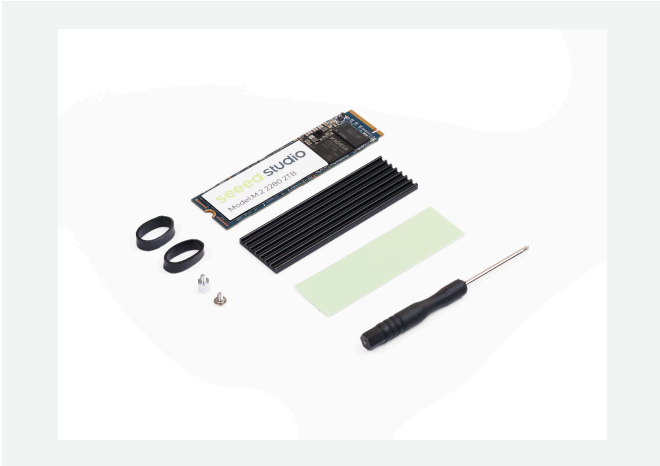


The NVMe M.2 2280 SSD 2TB offers a compact, single-sided form factor that plugs directly into the motherboard for an easy upgrade. It leverages NVMe 1.3c technology and PCIe Gen3x4 32GT/s interface with 3D BiCS FLASH™ to deliver 2TB of high-performance storage, and includes a cooling fin compatible with all 2280 SSDs.

Key Features

- **Small and Compact for an Easy Upgrade:** A small, single-sided M.2 2280 form factor that plugs directly onto the motherboard
- **NVMe™ Technology:** Reduces latency in the system's I/O channel between your SSD and your CPU by utilizing NVMe™ 1.3c technology.
- **Cutting-Edge 3D Flash Memory:** Built with BiCS FLASH™ and a vertically stacked cell structure, offering 2TB storage
- PCIe Gen3x4 32GT/s Interface
- Include cooling fin applicable to all 2280 SSDs

Product Gallery



Specification

Specifications	KIOXIA
Capacity	2TB
Interface	PCI Express Base Specification Revision 3.1a (PCIe)

Interface Maximum Speed	32 GT/s (PCIe Gen3 x4)
Interface Command	NVM Express Revision 1.3c command set
Form Factor	M.2 Type 2280-S2-M
Flash Memory Type	BiCS FLASH TLC
Dimension (Max:L x W x H)	80.15 mm x 22.15 mm x 2.23 mm
Drive Weight	500GB, 2TB: 6.8g (typ.), 2TB: 7.1g (typ.)

Specifications	KIoXIA
Max Sequential Read Speed	2,100 MB/s
Max Sequential Write Speed	1,700 MB/s
Max Random Read Speed	2TB: 360,000 IOPS
Max Random Write Speed	2,400,000 IOPS
Endurance (TBW)	2TB: 800 TB
MTTF	1.5 million hours

Specifications	KIoXIA
Operating Temperature	0°C (Ta) to 85°C (Tc)
Storage Temperature	-40°C to 85°C
Shock Resistance	9,806 km/s ² [1,000 G], 0.5 ms half-sine wave
Supply Voltage	3.3V ± 5%
Vibration	196 m/s ² (20 G Peak, 10~2,000 Hz, 20 min / Axis) x 3 Axis
Power Consumption (Active)	2TB: 5.3 W (typ.)
Power Consumption	PS3: 50 mW (typ.) PS4: 5 mW (typ.)

Specifications	KIoXIA
PCI Express	Compatible with PCI Express Base Specification Revision 3.1a NVM Express Revision 1.3c command set
Connector Type	M.2 M key Socket
Target Applications	Client desktops and laptops

Part List

NVMe M.2 2280 SSD 2TB	x1
Cooling fin	x1

Compliance & Logistics

HSCODE	8471701100
USHSCODE	8523510000
UPC	
EUHSCODE	8517180000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/NVMe-M-2-2280-SSD-2TB-p-6265.html>

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