



# Kingston Renegade PCIe 4.0 NVMe M.2 SSD

For Gamers, Enthusiasts, and High-Power Users

Kingston Renegade PCIe 4.0 NVMe M.2 SSD is built for hardware enthusiasts and gamers in search of high-performance storage. With blazing speeds up to 7,300MB/s read and 7,000MB/s write, it's powerful enough to boost game and app load times, improve responsiveness, and stay cooler longer, thanks to its graphene aluminum heat spreader. With an optional heatsink model for even more thermal dispersion this drive is PS5™ ready, to deliver an optimal gaming experience.

- Incredible PCIe Gen 4x4 NVMe performance
- Low-profile heat spreader
- Slim M.2 2280 form factor
- High capacities up to 4TB<sup>1</sup>

## Specifications

Form Factor	M.2 2280
Interface	PCIe 4.0 x4 NVMe
Capacities <sup>1</sup>	500GB, 1TB, 2TB, 4TB
Controller	Phison E18
NAND	3D TLC
DRAM Cache	Yes
Sequential Read/Write <sup>2</sup>	500GB – 7,300/3,900MB/s 1TB – 7,300/6,000MB/s 2TB – 7,300/7,000MB/s 4TB – 7,300/7,000MB/s
Random 4K Read/Write <sup>2</sup>	500GB – up to 450,000/900,000 IOPS 1TB – up to 900,000/1,000,000 IOPS 2TB – up to 1,000,000/1,000,000 IOPS 4TB – up to 1,000,000/1,000,000 IOPS
Endurance (Total bytes written) <sup>3</sup>	500GB – 500TB 1TB – 1.0PBW 2TB – 2.0PBW 4TB – 4.0PBW
Power Consumption	500GB – 50mW Idle / 0.34W Avg / 2.7W (MAX) Read / 4.1W (MAX) Write 1TB – 50mW Idle / 0.33W Avg / 2.8W (MAX) Read / 6.3W (MAX) Write 2TB – 50mW Idle / 0.36W Avg / 2.8W (MAX) Read / 9.9W (MAX) Write 4TB – 50mW Idle / 0.36W Avg / 2.7W (MAX) Read / 10.2W (MAX) Write
Storage Temperature	-40°C~85°C
Operating Temperature	0°C~70°C
Dimensions	Heat spreader: 80mm x 22mm x 2.21mm (500GB-1TB) 80mm x 22mm x 3.5mm (2TB-4TB)

Weight	Heat spreader: 500GB-1TB – 7g 2TB-4TB – 9.7g
Vibration Operating	2.17G Peak (7-800Hz)
Vibration Non-operating	20G Peak (20-1000Hz)
MTBF	2,000,000 hours
Warranty/Support <sup>4</sup>	Limited 5-year warranty with free technical support

**Part Numbers** SRNGS - Single-sided

SRNGS/500G	SRNGS/1000G	
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**Part Numbers** SRNGD - Double-sided

SRNGD/2000G	SRNGD/4000G	
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1. Some of the listed capacity on a Flash storage device is used for formatting and other functions and thus is not available for data storage. As such, the actual available capacity for data storage is less than what is listed on the products. For more information, go to Kingston's [Flash Memory Guide](#).
2. Based on “out-of-box performance” using a PCIe 4.0 motherboard. Speed may vary due to host hardware, software, and usage.
3. [Total Bytes Written](#) (TBW) is derived from the JEDEC Client Workload (JESD219A).
4. Limited warranty based on 5 years or “Percentage Used” which can be found using the Kingston SSD Manager ([kingston.com/ssdmanager](http://kingston.com/ssdmanager)). For NVMe SSDs, a new unused product will show a Percentage Used value of 0, whereas a product that reaches its warranty limit will show a Percentage Used value of greater than or equal to one hundred (100). See [kingston.com/wa](http://kingston.com/wa) for details.



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