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 provides cutting-edge performance in high capacities for gaming and hardware enthusiasts seeking extreme performance for PC builds and upgrades. By leveraging the latest Gen 4x4 NVMe controller and 3D TLC NAND, Kingston Renegade SSD offers blazing speeds up to 7,300/7,000MB/s[1] read/write and up to 1,000,000 IOPS[1] for amazing consistency and exceptional gaming experience. From game and application loading times to streaming and capturing, give your system a boost in overall responsiveness.

With better heat management comes better stability during peak performance. The slim M.2 combined with a low profile, graphene aluminum heat spreader is optimized for intense usage in gaming laptops and desktops. Kingston Renegade SSD matches the top-tier performance of the Kingston Renegade memory line to produce the ultimate team that will keep you at the top of your game.

Available in capacities from 500GB–4TB[2] to store an extensive library of your favorite games and media.

- Incredible PCIe Gen 4x4 NVMe performance
- Low-profile heat spreader
- Slim M.2 2280 form factor
- High capacities up to 4TB[2]

Key Features

- **Level up with PCIe 4.0 NVMe**

  Dominate with cutting-edge Gen 4x4 intense speeds up to 7,300/7,000MB/s[1] read/write and up to 1,000,000 IOPS[1] performance.

- **More space to play**

  Get all the latest titles and DLC available. Performance with high capacities up to 4TB[2] to store your favorite games and media.

- **Maximize your motherboard**

  Powerful slim M.2 form factor to enhance your gaming rig and laptop.

- **Low profile graphene aluminum heat spreader**

  Advanced thermal dissipation keeps your drive cool during intense usage. Brings higher performance to the tightest of spaces in gaming laptops and motherboards.

Specifications

Form Factor	M.2 2280
Interface	PCIe 4.0 x4 NVMe
Capacities[2]	500GB, 1TB, 2TB, 4TB
Controller	Phison E18
NAND	3D TLC
DRAM Cache	Yes
Sequential Read/Write[1]	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[1]	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)[3]	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[4]	Limited 5-year warranty with free technical support

Part Numbers

SRNGS

SRNGS/500G
SRNGS/1000G

SRNGD

SRNGD/2000G
SRNGD/4000G

Product Image

1. Based on "out-of-box performance" using a PCIe 4.0 motherboard. Speed may vary due to host hardware, software, and usage.
2. 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.
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). 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 for details.