

Kingston FURY Renegade PCIe 4.0 NVMe M.2 SSD

For gamers, enthusiasts and high-power users

Kingston FURY™ 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 FURY Renegade SSD offers blazing speeds of 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 aluminium heat spreader is optimised for intense usage in gaming laptops and desktops. The optional heatsink model delivers an additional layer of thermal dispersion so when the game heats up, your PS5™ console stays cool. Kingston FURY Renegade SSD matches the top-tier performance of the Kingston FURY 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 favourite games and media.

- Incredible PCIe Gen 4x4 NVMe performance
- Available with heatsink or low-profile heat spreader
- Slim M.2 2280 form factor
- High capacities of up to 4TB[2]
- PS5™ ready

Key Features

- **Level up with PCIe 4.0 NVMe**

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

- **Maximise your motherboard**

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

- **More space to play**

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

- **Low-profile graphene aluminium 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.

- **PS5™ ready**

  Game-changing storage designed to maximise your play. Optional integrated aluminium heatsink model provides an additional layer of thermal dispersion to cool the drive and maintain peak performance.

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
Total Bytes Written (TBW)[3]	500GB – 500TBW 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 Tempetemperaturerature	0°C~70°C
Dimensions	Heat spreader: 80mm x 22mm x 2.21mm (500GB-1TB) 80mm x 22mm x 3.5mm (2TB-4TB) Heatsink: 80mm x 23.67mm x 10.5mm
Weight	Heat spreader: 500GB-1TB – 7g 2TB-4TB – 9.7g Heatsink: 500GB-1TB – 32.1g 2TB-4TB – 34.9g

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

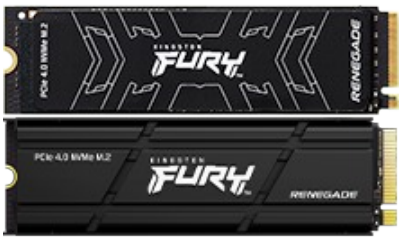
Heat Spreader

SFYRS/500G
SFYRS/1000G
SFYRD/2000G
SFYRD/4000G

Heatsink

SFYRSK/500G
SFYRSK/1000G
SFYRDK/2000G
SFYRDK/4000G

Product Image



This SSD is designed for use in desktop and notebook computer workloads and is not intended for Server environments.

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.

THIS DOCUMENT SUBJECT TO CHANGE WITHOUT NOTICE.
©2024 Kingston Technology Europe Co LLP and Kingston Digital Europe Co LLP, Kingston Court, Brooklands Close, Sunbury-on-Thames, Middlesex, TW16 7EP, England. Tel: +44 (0) 1932 738888 Fax: +44 (0) 1932 785469 All rights reserved. All trademarks and registered trademarks are the property of their respective owners. MKD-06032024