HyperX Predator PCIe SSD

Ferocious performance for serious users.

HyperX® Predator PCIe SSD offers large capacities and incredible speeds with both compressible and incompressible data to take your system to the edge. Faster than SATA-based SSDs, it's powered by a Marvell controller and delivers speeds of up to 1400MB/s read and 1000MB/s write for ultra-responsive multitasking and an overall faster system, and it's available in 240GB–960GB capacities. It features a PCIe Gen 2.0 x4 interface for high performance and an M.2 form factor to fit the next generation of desktops with an M.2 PCIe slot. Its HHHL adapter comes with both standard and low-profile brackets and fits in slim-profile desktop builds. HyperX Predator PCIe SSD delivers top-of-the-line performance to match high-performance HyperX memory for consistent branding to keep you at the top of your game.

> Highest performance speeds with large capacities

> PCIe interface with multiple form factors

> One-brand solution for top-of-the-line performance memory and SSD components

FEATURES/BENEFITS

> **Fastest HyperX SSD** — Its Marvell controller delivers incredible sequential and random speeds, making Predator PCIe the fastest HyperX SSD.

> **Multiple capacities** — To suit your exact needs, HyperX Predator PCIe SSD comes in capacities of up to 960GB and can work as a boot drive or a true hard drive replacement.

> **Supports PCIe** — HyperX Predator PCIe SSD delivers blazing-fast PCIe Gen 2.0 x4 speeds that are much faster than any SATA-based SSD.

> **Ideal for desktop systems** — This SSD is available in an M.2 form factor with an optional HHHL adapter. Choose the option that best suits your build.

SPECIFICATIONS

> **Form factor** M.2 2280
> **Interface** PCIe Gen 2.0 x4
> **Capacities[1]** 240GB, 480GB, 960GB
> **NAND** MLC
> **Controller** Marvell 88SS9293
> **Baseline performance[2]**
  Compressible Data Transfer (ATTO)
  240GB — 1400MB/s Read and 600MB/s Write
  480GB — 1400MB/s Read and 1000MB/s Write
  960GB — 1350MB/s Read and 1000MB/s Write
  Incompressible Data Transfer (AS-SSD and CrystalDiskMark)
  240GB — 1290MB/s Read and 600MB/s Write
  480GB — 1100MB/s Read and 910MB/s Write
  960GB — 1300MB/s Read and 1000MB/s Write
  IOMETER Maximum 4k Read/Write
  240GB — up to 160,000/ up to 119,000 IOPS
  480GB — up to 130,000/ up to 118,000 IOPS
  960GB — up to 160,000 / up to 126,000 IOPS
  Random 4k Read/Write 240GB — up to 120,000/ up to 78,000 IOPS
            480GB — up to 117,000/ up to 70,000 IOPS
            960GB — up to 111,000 / up to 72,000 IOPS
  PCMark® Vantage HDD Suite Score   240GB — 138,000
            480GB — 139,000
            960GB — 130,000
  PCMark® 8 Storage Bandwidth   240GB — 331MB/s
            480GB — 336MB/s
            960GB — 414MB/s
  PCMark® 8 Storage Score 240GB — 5,015
            480GB — 5,017
            960GB — 5,045
  Anvil Total Score (Incompressible Workload) 240GB — 6,500
            480GB — 6,700
            960GB — 6,800

> **Power consumption** 1.38W Idle / 1.4W Avg / 1.99W (MAX) Read / 8.25W (MAX) Write
> **Storage temperature** -40°C~85°C
> **Operating temperature** 0°C~70°C
> **Dimensions** 80mm x 22mm x 3.5mm (M.2)
  180.98mm x 120.96mm x 21.59mm (with HHHL adapter – standard bracket)
  181.29mm x 80.14mm x 23.40mm (with HHHL adapter – low-profile bracket)
> **Weight** 10g (M.2)
      73g (with HHHL adapter – standard bracket)
      68g (with HHHL adapter – low-profile bracket)
> **Vibration operating** 2.17G Peak (7–800Hz)
> **Vibration non-operating** 20G Peak (10–2000Hz)
> **Life expectancy** 1 million hours MTBF
> **Warranty/support** 3-year warranty with free technical support
> **Total Bytes Written (TBW)[3]**
  240GB — 415TB 1.6 DWPD[4]
  480GB — 882TB 1.7 DWPD[4]
  960GB — 1600TB 1.8 DWPD[4]

PART NUMBERS

SHPM2280P2/240G

SHPM2280P2/480G

SHPM2280P2/960G

SHPM2280P2H/240G (with HHHL adapter)

SHPM2280P2H/480G (with HHHL adapter)

SHPM2280P2H/960G (with HHHL adapter)

PACKAGE CONTENTS

M.2 only

- Hard drive cloning software – download coupon[5]

M.2 with HHHL adapter

- Standard & low-profile brackets

- Hard drive cloning software – download couponn[5]

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

1 Some of the listed capacity on a Flash storage device is used for formatting and other functions and is thus 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 at kingston.com/flashguide.

2 Based on "out-of-box performance" using a PCIe 3.0/2.0 motherboard. Speed may vary due to host hardware, software and usage. IOMETER random 4k random read/write is based on 8GB partition.

3 Total Bytes Written (TBW) is derived from the JEDEC Client Workload (JESD219A).

4 Drive Writes Per Day (DWPD)