



Scorch M.2 PCIe Solid State Drives 512GB

The Patriot Scorch M.2 Next Generation Form Factor (NGFF) SSD is the perfect solution for consumers and professionals looking to get blazingly fast start up times and instantaneous access to their data for better productivity and reliability from their SSD. Powered by the Phison® 5008 controller, the Scorch M.2 uses an ultra-fast PCIe gen 3.0 x 2 NVMe 1.2 interface to deliver read and write speeds of up to 1700MB/s (read) that are 3x faster than SATA SSDs.



To ensure the Patriot Scorch M.2 SSD provides rock-solid performance, static and advanced wear-leveling, advanced garbage collection, TRIM support, bad block management and S.M.A.R.T technologies are built in. At 22mm wide by 80mm tall (2280), the Scorch M.2 is the best solution for all-in-one PC kits, notebook upgrades, or small form-factor, high-performance gaming PC builds.

Backed by Patriot's award winning build quality and 3-year warranty; the Patriot Scorch M.2 SSD delivers one of the most reliable choices in performance class SSDs.

PRODUCT INFORMATION

PRODUCT NAME:	Scorch M.2
PATRIOT PART NUMBER:	PS512GPM280SSDR
DESCRIPTION:	Scorch M.2 2280 PCIe SSD
CERTIFICATIONS/SAFETY:	CE / FCC / RoHS
PRODUCT WARRANTY:	3 Year Warranty
UNIT UPC:	0814914024072
UNIT WEIGHT:	0.01lbs/ 9gm
UNIT DIMENSIONS:	0.87" (D) x 3.15" (W) x 0.15" (H) 2.2 cm (D) x 8 cm (W) x 0.38 cm (H)
PACKAGING TYPE:	Hang Card
PACKAGING WEIGHT:	0.04 lbs / 20 gm
PACKAGING DIMENSIONS:	3.92" (D) x 5.15" (W) x 0.26" (H) 9.96cm (D) x 13.08 cm (W) x 0.66 cm (H)
MASTER CARTON WEIGHT:	22 lbs / 10 Kg
MASTER CARTON DIMENSIONS:	45.8 cm x 37.7 cm x 30.6 cm
UNITS PER INNER CARTON:	50
UNITS PER MASTER CARTON:	400

FEATURES:

- Phison 5008 Series Controller
- 2280 M.2 PCIe Gen 3 x 2, NVMe 1.2
- DRAM Cache: 512MB
- End-to-End Datapath Protection
- Smart Refresh™
- SmartECC™

SPECIFICATIONS:

- Operating Temperature: 0 ~ 70°C
 - MTBF: >2,000,000 hours
 - 4K Aligned Random Read: up to 200K IOPs
 - 4K Aligned Random Write: up to 115K IOPs
 - Sequential Read (ATTO): up to 1700MB/s
 - Sequential Write (ATTO): up to 950MB/S
 - 300 TBW
 - Power Consumption Read: 3600mW
 - Power Consumption Write: 4200mW
 - Power Consumption Idle: 40Mw
 - O/S Supported: Windows® 7*/8.0*/8.1/10
- *May require driver

For technical support, email us at:
SUPPORT@PATRIOTMEM.COM

MEMORY STORAGE