



# Scorch M.2 PCIe Solid State Drives 256GB

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 1,700MB/s (read) that are up to 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 long (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:	PS256GPM280SSDR
DESCRIPTION:	Scorch M.2 2280 PCIe SSD
CERTIFICATIONS/SAFETY:	CE / FCC / RoHS
PRODUCT WARRANTY:	3 Year Warranty
UNIT UPC:	0814914024065
UNIT WEIGHT:	0.01lbs/ 9gm
UNIT DIMENSIONS:	0.87" (D) x 3.15" (W) x 0.15" (H) 22 mm (D) x 80 mm (W) x 3.8 mm (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: 256MB
- 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 90K IOPs
  - Sequential Read (ATTO): up to 1700MB/s
  - Sequential Write (ATTO): up to 780MB/S
  - 150 TBW
  - Power Consumption Read: 3000mW
  - Power Consumption Write: 3600mW
  - Power Consumption Idle: 35mW
  - O/S Supported: Windows® 7\*/8.0\*/8.1/10
- \*May require driver

For technical support, email us at:  
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# MEMORY STORAGE