



ROCKET
NVMe 4.0



Introducing the
ROCKET
4.0



1

Next Level SSD

Enter the next generation of data storage technology.
The Rocket NVMe delivers amazing speeds,
unmatched reliability, and capacity options up to 2TB.
Experience a faster, cooler, and quieter computer.
Unleash your creativity with the Sabrent Rocket.



500GB

1TB

2TB

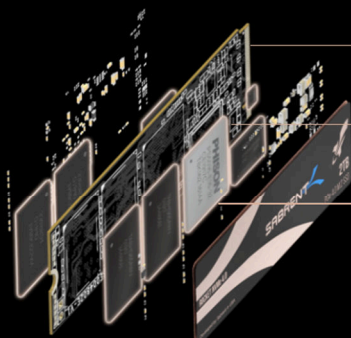


Superior Performance

Supports SMART and TRIM commands,
ONFi 2.3, ONFi 3.0, ONFi 3.2 and ONFi 4.0 interface

Unmatched Reliability

Advanced Wear Leveling, Bad Block Management,
Error Correction Code, and Over-Provision.



PCIe 4.0

PCIe Gen4 x4 Interface

Cache

External DDR4 Cache X2*


Flash Controller

Phison PS5016-E16

*For 1TB and 2TB versions

2 Tech Specs

Based on Toshiba's BiCS4 96L TLC NAND Flash memory, its performance speeds can reach up to 5000 MB/s (read) and 4400 MB/s (write) when using a PCIe Gen4 motherboard.



Sequential Read Speed

Sabrent NVMe Gen4 SSD	5000 MB/s
Normal PCIe 3.0 SSD	3500 MB/s
SATA SSD	550 MB/s
SATA HD	200 MB/s

Inicio

Sequential Write Speed

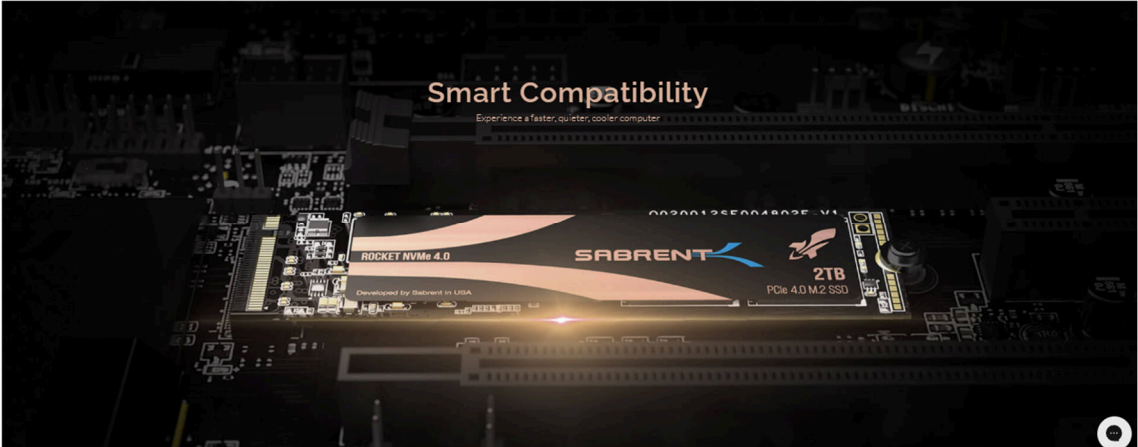
Sabrent NVMe Gen4 SSD	4400 MB/s
Normal PCIe 3.0 SSD	3300 MB/s
SATA SSD	520 MB/s
SATA HD	175 MB/s

Model #	SB-ROCKET-NVMe4-500	SB-ROCKET-NVMe4-1TB	SB-ROCKET-NVMe4-2TB
Capacity	500GB	1000GB	2000GB
NAND	3D BiCS4	3D BiCS4	3D BiCS4
Controller	PS5016-E16	PS5016-E16	PS5016-E16
Interface	PCIe Gen4 x4	PCIe Gen4 x4	PCIe Gen4 x4
Certifications	CE,FCC,BSMI,RoHS,VCCI	CE,FCC,BSMI,RoHS,VCCI	CE,FCC,BSMI,RoHS,VCCI
Max Sequential Read	5000 (MB/s)	5000 (MB/s)	5000 (MB/s)
Max Sequential Write	2500 (MB/s)	4400 (MB/s)	4400 (MB/s)
Random 4K QD32 (IOPS) Read*1	400K	750K	750K
Random 4K QD32 (IOPS) Write*1	550K	750K	750K
Random 4K QD32 (IOPS) Read*2	400K	600K	600K
Random 4K QD32 (IOPS) Write*2	500K	500K	500K
Power Consumption R/W	6.2 / 4.6	6.1 / 5.9	6.7 / 6.6
Power Supply	3.3V	3.3V	3.3V
Form Factor	M.2 2280	M.2 2280	M.2 2280
Height	3.7mm	3.7mm	3.7mm
Width	22mm	22mm	22mm
Length	80mm	80mm	80mm

Operating Temperature	0~70C	0~70C	0~70C
Storage Temperature	-40~85C	-40~85C	-40~85C
MTBF	1,700,000	1,700,000	1,700,000
Shock Resistant	1500G	1500G	1500G
Data Correction	LDPC	LDPC	LDPC
Warranty	5 years with registration	5 years with registration	5 years with registration
TBW	850	1800	9600

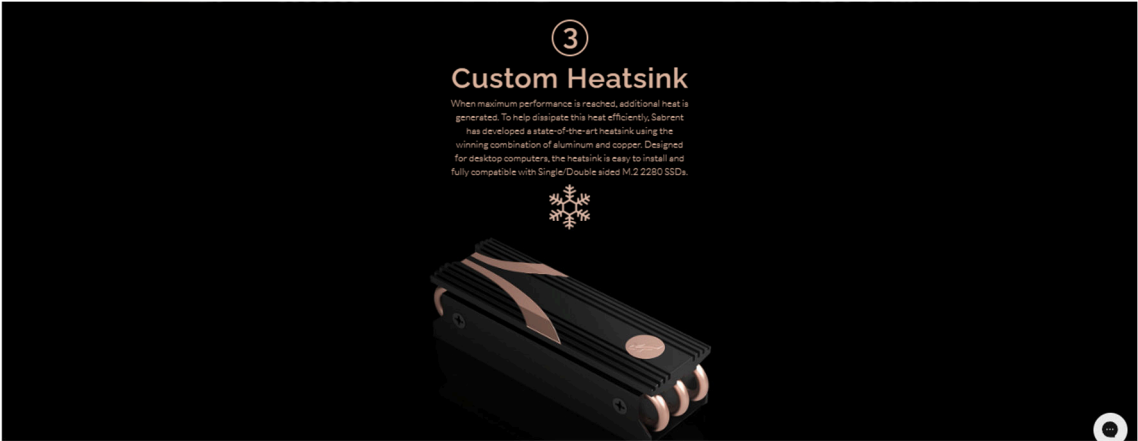
*1. Performance is based on Intel Gen3 Z270 + PLDA Gen4 switch.

*2. Performance is based on AMD Gen4 X570 + 8 Core CPU.



Smart Compatibility

Experience a faster, quieter, cooler computer



3

Custom Heatsink

When maximum performance is reached, additional heat is generated. To help dissipate this heat efficiently, Sabrent has developed a state-of-the-art heatsink using the winning combination of aluminum and copper. Designed for desktop computers, the heatsink is easy to install and fully compatible with Single/Double sided M.2 2280 SSDs.



Thermal Conductivity

The copper is used to absorb the drive's heat, moving it away from the drive and spreading it through the grooved aluminum surface on top of the heatsink. This added level of cooling efficiency allows the drive to avoid all thermal throttling, which maximizes the performance of your drive.

69% Improvement



Top Heat Spreader

Improves thermal transfer from heating sources

Copper Heat Coils

For the best heat dissipation during read/write performances

Aluminum Heat Sink

Greatly increase the heat dissipation area

Thermal Tape x2

Allows excellent thermal conductivity ability

Aluminum Tray

Screws & screwdriver included