



# TEAMGROUP MP44 M.2 PCIe 4.0 SSD

MP44 M.2 PCIe 4.0 SSD adopts the PCIe Gen4x4 interface. It features read/write speeds of up to 7,400/7,000 MB/s and a maximum storage capacity of 8TB. It is equipped with TEAMGROUP's exclusive patented heat dissipating graphene label less than 1mm thick, which is also compatible with the onboard M.2 heat sink for superior heat dissipation performance to that of the native motherboard heat sink alone. It is undoubtedly the best enhancement to native heat sinks. MP44 M.2 PCIe 4.0 SSD also comes with a five-year warranty and recyclable packaging for user reassurance.

## Primary functions and features

- Gargantuan space for all-encompassing data storage
- Heat dissipating graphene label, the best enhancement to motherboard heatsink
- PCIe Gen4 ultra-speed performance exceeding 7,000MB/s
- SSD patented monitoring
- Recyclable packaging contributing to environmental sustainability
- Five-year warranty for comprehensive protection
- Heat dissipating graphene label patents:  
Taiwan utility patent (No: M628748)  
China utility patent (No: CN 217135922 U)
- Patented S.M.A.R.T. software  
Taiwan invention patent (No: I751753)

## Product description

### Gargantuan space for all-encompassing data storage

MP44 M.2 PCIe 4.0 SSD features a maximum capacity of 8TB, offering all-encompassing storage for documents, pictures, videos, games and all kinds of data on the computer.

### Heat dissipating graphene label, the best enhancement to motherboard heat sink

MP44 M.2 PCIe 4.0 SSD adopts TEAMGROUP's exclusive patented heat dissipating graphene label. Less than 1mm thick of M.2 2280 size, it eradicates any mechanical interference in assembly. Paired with the onboard M.2 heat sink, the heat dissipating performance is superior to that of the native heat sink alone. It is undoubtedly the best enhancement to the native heat sink.

### PCIe Gen4 ultra-speed performance exceeding 7,000MB/s

It adopts the PCIe Gen4x4 interface, featuring read/write speeds of up to 7,400/7,000 MB/s that guarantee a smooth user experience.

### SSD patented monitoring

TEAMGROUP's exclusive patented intelligent SSD monitoring software, S.M.A.R.T, monitors product status and health at all times. It also monitors product quality and performance effortlessly through fast and easy setting and inspection.

### Recyclable packaging contributing to environmental sustainability

MP44 M.2 PCIe 4.0 SSD uses recyclable packaging. It has passed environmental protection certifications, including RoHS, REACH, and ESG, contributing to sustainability endeavors.

### Five-year warranty for comprehensive protection

MP44 M.2 PCIe 4.0 SSD comes with a five-year warranty. It has been through rigorous testing and quality control to ensure fine quality for your reassurance.



## Main introduction

Interface	PCIe 4.0 x4 with NVMe
Capacity	512GB / 1TB / 2TB / 4TB / 8TB <sup>[1]</sup>
Voltage	DC +3.3V
Operation Temperature	0°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
DRAM Cache	NO
Terabyte Written	512GB - 700TBW 1TB - 1,450TBW 2TB - 2,500TBW 4TB - 3,000TBW 8TB - 6,000TBW <sup>[2]</sup>
Performance	Crystal Disk Mark : 512GB : Read up to 7,300 MB/s ; Write up to 4,500 MB/s 1TB : Read up to 7,400 MB/s ; Write up to 6,500 MB/s 2TB : Read up to 7,400 MB/s ; Write up to 7,000 MB/s 4TB : Read up to 7,400 MB/s ; Write up to 6,900 MB/s 8TB : Read up to 7,200 MB/s ; Write up to 6,000 MB/s <sup>[3]</sup> IOPS : 512GB : Read up to 590K ; Write up to 610K 1TB : Read up to 650K ; Write up to 650K 2TB : Read up to 650K ; Write up to 660K 4TB : Read up to 650K ; Write up to 660K 8TB : Read up to 650K ; Write up to 590K <sup>[3]</sup>
Weight	7g
Dimensions	80(L) x 22(W) x 3.7(H) mm
Humidity	RH 90% under 40°C (operational)
Vibration	80Hz ~ 2000Hz/20G
Shock(SSD)	1500G / 0.5ms
MTBF	1,600,000 Hours
Operating System	Compatible with Intel and AMD platforms and has one of the following operating systems: <ul style="list-style-type: none"><li>• Windows 11/ 10 / 8 / 7 / Vista or later</li><li>• Linux 2.6.33 or later</li></ul>
Warranty	5-year limited warranty <sup>[4]</sup>

[1] 1GB=1,000,000,000 Bytes. In the operating system, it is displayed as 1,000,000,000 Bytes / 1024 / 1024 / 1024 = 0.93GB.

[2] Definition and calculation of terabytes written (TBW) are based on the JEDEC standard.

[3] Transmission speed may vary according to different hardware and software conditions. Therefore, the data can only be used as basic reference.

[4] SSD warranty is applicable either by the standard for terabytes written (TBW) or the warranty duration, whichever is met earlier.

## Ordering information

Capacity	Team P/N
512GB	TM8FPW512G0C101
1TB	TM8FPW001T0C101
2TB	TM8FPW002T0C101
4TB	TM8FPW004T0C101
8TB	TM8FPW008T0C101



Team Group Inc. was founded in 1997 in Taiwan, leading the industry by possessing professional research and development capabilities and a tightly-knit global sales network in storage and memory product, ranking among CommonWealth Magazine's top 1000 enterprises.



### PERFECT CHOICE

Products from Team Group Inc. have been well received by the technology media around the globe and have won honors such as COMPUTEX d&g awards, COMPUTEX Best Choice Award, GOOD DESIGN AWARD, Golden Pin Design Award, Taiwan Excellence Awards, iF Design Award and Red Dot Award.

### GLOBALIZATION

Team Group Inc. has built up a strong center in Taiwan for production, R&D, sales and customer service, and has over 300 global sales agents and 400 employees worldwide. Team Group Inc. uses differentiating sales strategies with a global vision and localized channel management to establish a closed distribution network.

### GUARANTEED QUALITY & WARRANTY SERVICE

Team Group Inc. is well praised by the industry and customers by adhering to the corporate philosophy of "Integrity, Innovation, Professionalism, Efficiency, Discipline, and Simplicity." We offer faster repair and exchange services than others, guaranteeing a minimized delivery time for every global customer.

### SOLID R&D CAPABILITIES

With the best technical and manufacturing team, products from Team Group Inc. are made with innovation and strict quality control. Our memory technology has passed the ISO9001 and ISO14001 certifications, taking the lead in the memory industry with our latest overclocking memory modules.



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