



T-FORCE Z44A Series PCIe SSD

T-FORCE Z44A Series PCIe SSD comes in three speed specifications, Z44A3, Z44A5, and Z44A7 with a maximum read speed of 3500MB/s, 5000MB/s, and 7400MB/s respectively, catering to the varied demands for read speed and capacity. It adopts the PCIe Gen4x4 interface and TEAMGROUP's patented graphene heatsink for enhanced heat dissipation performance and system operating stability. Less than 1mm thick, it perfectly eradicates any possible mechanical interference. It is undoubtedly the best choice for NB capacity upgrade.

Primary functions and features

- Effortless upgrade for professional gaming
- Patented graphene heatsink for enhanced heat dissipation and system operating stability
- Best choice for NB capacity upgrade
- Intelligent management technology – trustworthy reliability
- Patented intelligent health monitoring system
- Eco-friendly product contributing to conserving Earth
- Patented graphene heatsink
US invention patent (certificate no.: US11051392B2)
Taiwan invention patent (certificate no.: I703921)
China utility patent (certificate no.: CN 211019739 U)
- S.M.A.R.T. software patent
Taiwan invention patent (No.: I751753)



Main introduction

Effortless upgrade for professional gaming

T-FORCE Z44A Series PCIe SSD comes in three speed specifications, Z44A3, Z44A5, and Z44A7 with a maximum read speed of 3500MB/s, 5000MB/s, and 7400MB/s respectively. Catering to varied demands for read speed and capacity, users can upgrade their professional gaming equipment effortlessly.

Patented graphene heatsink for enhanced heat dissipation and system operating stability

It adopts TEAMGROUP's exclusive patented graphene heatsink which enhances heat dissipation performance and enables better system operating stability.

Best choice for NB capacity upgrade

Less than 1mm thick, it perfectly eradicates any possible mechanical interference. It is undoubtedly the best choice for NB capacity upgrade.

Intelligent management technology – trustworthy reliability

The built-in smart algorithm management mechanism includes functions such as GC (garbage collection), TRIM command, LDPC (Low Density Parity Check Code) error correction mechanism, E2E data protection, etc. The mechanism enhances operation efficiency and prolongs SSD service life. It also ensures data security and maximizes performance and data transfer stability.

Patented intelligent health monitoring system

It is equipped with the exclusive patented S.M.A.R.T. monitoring software that monitors product status at all times. It also monitors product quality and performance through fast and easy setting and inspection.

Eco-friendly product contributing to conserving Earth

The entire manufacturing process is completed in a lead-free environment in compliance with RoHS environmental protection regulations. All packaging is made of recyclable materials, contributing to sustainability endeavors.

Specifications

Interface	Gen4x4 with NVMe		
Capacity	512GB / 1TB / 2TB/ 4TB ^[1]		
Voltage	DC +3.3V		
Operation Temperature	0°C ~ 70°C		
Storage Temperature	-40°C ~ 85°C		
DRAM Cache	NO		
Terabyte Written	Z44A3: 512GB - 300 TBW 1TB - 600 TBW 2TB - 1200 TBW ^[2]	Z44A5: 512GB - 300 TBW 1TB - 600 TBW 2TB - 1200 TBW ^[2]	Z44A7: 512GB - 500 TBW 1TB - 1000 TBW 2TB - 1500 TBW 4TB - 3000 TBW ^[2]
Performance	Z44A3: 512GB Read/Write: up to 3300/2400 MB/s 1TB Read/Write: up to 3500/2700 MB/s 2TB Read/Write: up to 3500/3200 MB/s	Z44A5: 512GB Read/Write: up to 5000/2500 MB/s 1TB/2TB Read/Write: up to 5000/4500 MB/s	Z44A7: 512GB Read/Write: up to 7000/4800 MB/s 1TB Read/Write: up to 7400/6800 MB/s 2TB Read/Write: up to 7400/7000 MB/s 4TB Read/Write: up to 7400/6600 MB/s
Dimensions	80.0(L) x 22.0(W) x 3.7(H) mm		
Weight	7g		
Vibration	80Hz~2,000Hz/20G		
Shock	1,500G/0.5ms		
MTBF	1,700,000 Hours		
Operating System	Compatible with Intel and AMD platforms and has one of the following operating systems: Windows 11 / 10 / 8.1 / 8 / 7 / Vista, MAC OS 10.4 or later, Linux 2.6.33 or later		
Warranty	5-year limited warranty ^[4]		

[1] 1GB=1,000,000,000 Bytes. In OS system, it would be displayed as 1,000,000,000 Bytes/1024/1024/1024 = 0.93GB

[2] Definition and conditions of TBW (Terabytes Written) are based on JEDEC standard

[3] Transmission speed will vary according to different hardware/software conditions, therefore the data can only use for basic reference.

[4] The SSD is based on the TBW or Warranty period.

※All the test data is provided by TEAMGROUP's laboratory and the information of test data is only for reference. We reserve the right to modify product specifications without prior notice.

※The results are based on TEAMGROUP's internal lab testing on the temperature of M.2 SSD without a heat sink and the temperature of M.2 SSD with the heat dissipating graphene label attached. Actual heat dissipation performance may vary according to different environmental conditions.



Ordering information

Series	Capacity	Team P/N
Z44A3	512GB	TM8FPX512GOC129
	1TB	TM8FPX001TOC129
	2TB	TM8FPX002TOC129
Z44A5	512GB	TM8FPP512GOC129
	1TB	TM8FPP001TOC129
	2TB	TM8FPP002TOC129
Z44A7	512GB	TM8FPV512GOC129
	1TB	TM8FPV001TOC129
	2TB	TM8FPV002TOC129
	4TB	TM8FPV004TOC129



T-FORCE is TEAM force. The red "T" on the logo of "TF" represents TEAMGROUP's passion for the storage products. The black "F" represents TEAMGROUP's over 18 years of promotion of storage products. The visual design of the perfect combination elegantly symbolizes a pair of flying wings.



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 overlocking memory modules.



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