

Solid State Drives

RD500

Enthusiast-grade SSD for Gaming Systems

1000 500
GB GB

- 96-layer TLC BiCS FLASH™ 3D memory
- PCIe® 3.0 Gen3 x4 Lane
- NVMe™ 1.3c interface specifications supported



Your high-performance gaming system needs high-performance storage. TOSHIBA RD500 NVMe™ SSD Series is built to deliver top-of-class PCIe® performance thanks to a newly designed 8-channel controller that brings out the full potential of its 96-layer 3D flash memory (BiCS FLASH™). This new enthusiast-class SSD series offers up to 1TB of capacity and a 5-year warranty in a M.2 2280 form factor suitable for both desktops and mobile systems.



Product Specifications

Storage memory	96-layer 3D BiCS FLASH™ TLC	Product Health Monitoring	SSD Utility version 3.4 and above
Capacity	500 GB, 1,000 GB	PCI Express	Compatible with PCI Express® Base Specification Revision 3.1a and NVMe™ Revision 1.3c command set
Interface	PCIe® 3.0 Gen3 x4 Lane	Operating system	Windows® 10 x64
Form Factor	M.2 2280	Operating Temperature	0°C (Ta) to 85°C (Tc)
Max read speed (MB/s)	Up to 3,400 MB/s (500 GB), Up to 3,400 MB/s (1,000 GB)	Storage Temperature	-40°C to 85°C
Max write speed (MB/s)	Up to 2,500 MB/s (500 GB), Up to 3,200 MB/s (1,000 GB)	Shock Resistance	9.806 km/s2 {1,000 G} 0.5 ms half sine wave
MTTF	1.5 million hours	Vibration (Operational & Non-Operational)	196 m/s2 {20 G} Peak, 10~2000 Hz, (20 min / Axis) x 3 Axis
TBW	500GB: 200 TB 1,000GB: 400 TB	Connector Type	M.2 M key Socket
Supply Voltage	3.3 V ±5 %	Targeted Applications	Client desktops and laptops
Power consumption (L.1.2 Power)	PS3: 50 mW (typ.) PS4: 5 mW (typ.)	Performance Optimisation	TRIM, Idle Time Garbage Collection
Power Consumption	500GB: 5.1 W (typ.) 1,000GB: 6.5 W (typ.)	Service & Support	5-Year Standard Warranty
Dimensions	22 x 80 mm	Software & Services	SSD management software: SSD Utility v3.4 and above.
Weight	500GB: 8 g (typ.) 1,000GB: 10 g (typ.)		

Product Range

Part number	Capacity	EAN
THN-RD50Z5000G8(CS	500 GB	811375030116
THN-RD50Z0013G8(CS	1000 GB	811375030123

Contact

Toshiba Memory Europe GmbH

Hansaallee 181
40549 Düsseldorf
Germany