**Solid State Drives**
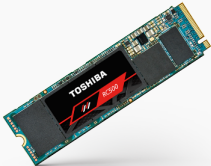
# RC500

Upgrade SSD for Mainstream Notebooks & PCs

**500 GB**  **250 GB**

Upgrading from a hard drive or SATA SSD should be easy and affordable and that's where RC500 SSDs come in. The RC500 NVMe™ SSD Series is built to boost your mobile or PC experience and deliver well-balanced performance, reliability, and value that will transform your system. Leveraging 96-layer 3D flash memory (BiCS FLASH™), this new mainstream-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 notebooks.

**TOSHIBA** PRO ★★★

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

# Product Specifications

| | | | | |
|---|---|---|---|---|
| **Storage memory** | 96-layer 3D BiCS FLASH™ TLC | | **Weight** | 250GB: 6.0 g (typ.)<br>500GB: 6.9 g (typ.) |
| **Capacity** | 250 GB, 500 GB | | **Product Health Monitoring** | SSD Utility version 3.4 and above |
| **Interface** | PCIe® Gen3x4L | | **PCI Express** | Compatible with PCI Express® Base Specification Revision 3.1a and NVM Express™ Revision 1.3c command set |
| **Form Factor** | M.2 2280 | | | |
| **Max read speed (MB/s)** | Up to 1,700 MB/s (250 GB)<br>Up to 1,700 MB/s (500 GB) | | | |
| **Max write speed (MB/s)** | Up to 1,200 MB/s (250 GB)<br>Up to 1,600 MB/s (500 GB) | | **Operating system** | Windows® 10 x64 |
| **Random Read IOPS** | Up to 190,000 IOPS (250GB)<br>Up to 290,000 IOPS (500GB) | | **Operating Temperature** | 0°C (Tc) to 85°C (Tc) |
| **Write IOPS** | Up to 290,000 IOPS (250GB)<br>Up to 390,000 IOPS (500GB) | | **Storage Temperature** | -40°C to 85°C |
| **MTTF** | 1.5 Mhours | | **Shock Resistance** | 9.806 km/s2 {1,000 G} 0.5 ms half sine wave |
| **TBW** | 250 GB: 100 TB<br>500 GB: 200 TB | | **Vibration (Operational & Non-Operational)** | 196 m/s2 {20 G} Peak, 10~2000 Hz, (20 min / Axis) x 3 Axis |
| **Supply Voltage** | 3.3 V ±5 % | | **Connector Type** | M.2 M key Socket |
| **Power consumption (L.1.2 Power)** | 50 mW (typ.) | | **Targeted Applications** | Client desktops and laptops |
| **Power Consumption** | 250GB: 3.8 W (typ.)<br>500GB: 3.9 W (typ.) | | **Performance Optimisation** | TRIM, Idle Time Garbage Collection |
| | | | **Service & Support** | 5-Year Standard Warranty |
| **Dimensions** | 80 x 22 x 2.38 mm Max | | **Software & Services** | SSD management software: SSD Utility v3.4 and above. |

# Product Range

| Part number | Capacity | EAN |
|---|---|---|
| THN-RC50Z2500G8(CS | 250 GB | 811375030086 |
| THN-RC50Z5000G8(CS | 500 GB | 811375030093 |

# Contact

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