# Client SSD
CG2 Series

| | | Mini SATA module |
|---|---|---|
| **Basic Specifications** | | |
| Model Number | 32 GB | THNSNT032GMCR |
| | 16 GB | THNSNT016GMCR |
| Connector Type | | mSATA |
| Interface | | ATA-8 ACS, SATA revision 2.6 |
| Interface Speed | | 3.0 Gbit/s Max |
| Memory Type | | Toshiba MLC NAND flash memory |
| Sequential Read | | Up to 157 MB/s { 150 MiB/s } |
| Sequential Write | | Up to 52 MB/s { 50 MiB/s } |
| **Reliability** | | |
| MTTF | | 1,000,000 hours |
| **Power Requirements** | | |
| Supply Voltage | | 3.3 V ±5 % |
| Power Consumption ( Active ) | | 1.0 W Typ. |
| Power Consumption ( Idle ) | | 30 mW Typ. |
| **Dimensions** | | |
| Height | | 3.95 mm |
| Width | | 30.00 mm |
| Depth | | 50.95 mm |
| Weight | | 7.5 g Typ. |
| **Environmental Requirements** | | |
| Temperature ( Operating ) | | 0 to 70 °C ( Case Temperature ) |
| Vibration ( Operating / Non-operating ) | | 30.2 m/s$^2$ { 3.08 G } ( Peak, 7 to 800 Hz ) |
| Shock ( Operating ) | | 14.7 km/s$^2$ { 1500 G } ( 0.5 ms ) |
| More Features | | • Translation mode which enables any drive configuration<br>• 28-bit LBA mode commands and 48-bit LBA mode commands support<br>• Multi word DMA<br>• Ultra-DMA<br>• Advanced PIO mode<br>• Automatic retries and corrections for read errors |

▶ Definition of capacity: Toshiba defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = $2^{30}$ = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.
▶ A kibibyte (KiB) means $2^{10}$, or 1,024 bytes, a mebibyte (MiB) means $2^{20}$, or 1,048,576 bytes, and a gibibyte (GiB) means $2^{30}$, or 1,073,471,824 bytes.
▶ MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF.
▶ Read and write speed may vary depending on the host device, read and write conditions, and file size.
▶ "2.5-inch" and "3.5-inch" mean the form factor of HDDs or SSDs. They do not indicate drive's physical size.