# Product Datasheet

## C3000 Series

| Item | Product Name | C3000-XXX | | | |
|---|---|---|---|---|---|
| General | Form factor | 2.5" | | | |
| | Interface | SATAⅢ | | | |
| Performance | Capacity(GB) | 60GB | 120GB | 240GB | 480GB |
| | Sustained Read | 500MB/S | 500MB/S | 500MB/S | 500MB/S |
| | Sustained Write | 410MB/S | 470MB/S | 480MB/S | 500MB/S |
| | 4KB Random Read IOPS | 50,000 | | | |
| | 4KB Random Write IOPS | 20,000 | | | |
| | Average Access time | 0.1ms | | | |
| Storage Media | NAND Flash | MLC-NAND Flash | | | |
| Power Consumption | input Voltage | 5V+/-5% | | | |
| | Idle | 0.5W | | | |
| | Active | 2.0W | | | |
| Reliability& Endurance | Write endurance | 16years @100GBytes write and erase per day at 60GB | | | |
| | Read endurance | unlimited | | | |
| | Wear-Leveling Algorithm | Dynamic and static wear-leveling | | | |
| | Data Retention | 10years at 25°C | | | |
| | MTBF | 1,300,000hours | | | |
| | ECC | Supports BCH ECC 8bits or 15bits  in 512 bytes | | | |
| | Bad Block Management | Auto Bad Block Management in system | | | |
| Environment | Operating Temperature | 0～70℃ | | | |
| | Non-operating Temperature | -40～85℃ | | | |
| | Ambient Humidity | 5-95% | | | |
| Warranty | 2years | | | | |
| Available unit | Available | NO EOL | | | |
| Testing Platform | CPU:          Intel® Core（TM） i5-2400 CPU @ 3.10GHz<br>Chipset:     Intel® Z68 Express Chipset<br>Memory:     Kingston KHX1600C9D3C1K2/4GX<br>OS:           Microsoft Windows 7 Professional 64-bit<br>AHCI Driver:  Server Express Chipset SATA AHCI Controller<br>BIOS Settings: AHCI Mode | | | | |
| Testing Software | PC Mark，CrystalDiskMark v3.0 ，AS SSD Benchmark，HD Tune PRO 3.50 | | | | |
| Physical Dimensions & Weight | Height(mm) | 9±0.25 | | | |
| | Width(mm) | 69.8±0.25 | | | |
| | Length(mm) | 100±0.25 | | | |
| | Weight(g) | TDB | | | |
| ※The read and write speed is limited to this test platform. | | | | | |

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