

Intel DC S3510 2.5" 80 GB Serial ATA III MLC

Brand : Intel

Product code: SSDSC2BB080G6

Product name : DC S3510



SSD DC S3510 Series (80GB, 2.5in SATA 6Gb/s, 16nm, MLC)

[Intel DC S3510 2.5" 80 GB Serial ATA III MLC:](#)

Enhanced Power Loss Data Protection.

Enhanced Power Loss Data Protection prepares the SSD for unexpected system power loss by minimizing data in transition in temporary buffers, and uses on-board power-loss protection capacitance to provide enough energy for the SSD firmware to move data from the transfer buffer and other temporary buffers to the NAND, thus protecting system and user data.

Temperature Monitoring and Logging

Temperature Monitoring and Logging uses an internal temperature sensor to monitor and log airflow and device internal temperature. The logged results can be accessed using the SMART command.

End-to-End Data Protection

End-to-End Data Protection ensures integrity of stored data from the computer to the SSD and back.

Intel DC S3510. SSD capacity: 80 GB, SSD form factor: 2.5", Read speed: 375 MB/s, Write speed: 110 MB/s, Data transfer rate: 6 Gbit/s

| Features | | Brand-specific features | |
|--|------------------------------------|---|---|
| Security algorithms | 256-bit AES | Intel® Rapid Start Technology | ✗ |
| SSD form factor * | 2.5" | Intel® Smart Response Technology | ✗ |
| SSD capacity * | 80 GB | Intel Smart Response Technology version | 0.00 |
| Interface * | Serial ATA III | Operational conditions | |
| Memory type * | MLC | Operating temperature (T-T) | 0 - 70 °C |
| Hardware encryption * | ✓ | Storage temperature (T-T) | -55 - 95 °C |
| Data transfer rate | 6 Gbit/s | Operating relative humidity (H-H) | 5 - 95% |
| Read speed | 375 MB/s | Storage relative humidity (H-H) | 5 - 95% |
| Write speed | 110 MB/s | Operating vibration | 2.17 G |
| Random read (4KB) | 68000 IOPS | Non-operating vibration | 3.13 G |
| Random write (4KB) | 8400 IOPS | Operating shock | 1000 G |
| Random read (8KB) | 41500 IOPS | Non-operating shock | 1000 G |
| Random write (8KB) | 4200 IOPS | Maximum non-operating altitude | 40000 m |
| Random read (100% span) | 68000 IOPS | Maximum operating altitude | 15000 m |
| Random write (100% span) | 8400 IOPS | Weight & dimensions | |
| Read latency | 55 µs | Weight | 88 g |
| Write latency | 66 µs | Other features | |
| Lithography | 16 nm | Product colour | Silver |
| End-to-End Data Protection | ✓ | Internal | ✗ |
| Enhanced Power Loss Data Protection technology | ✓ | Processor lithography | 16 nm |
| SSD temperature monitoring | ✓ | Power consumption (active) | 5.59 W |
| Uncorrectable Bit Error Rate (UBER) | < 1 per 10 ¹⁷ bits read | Born on date | Q2'15 |
| Mean time between failures (MTBF) | 2000000 h | Drive capacity | 80 GB |
| | | Launch date | 2015-05-04T00:00:00 |
| | | Product name | Intel SSD DC S3510 Series (80GB, 2.5in SATA 6Gb/s, 16nm, MLC) |
| | | SSD endurance rating | 45 TBW |
| | | SSD hardware encryption | AES 256 bit |
| | | SSD power consumption (active) | 1.91 W |
| | | SSD power consumption (idle) | 600 mW |
| | | SSD shock | 1000G/0.5 msec |
| | | SSD weight | 88 g |
| | | Sequential reading | 375 MB/s |

| Features | | Other features | |
|---------------------------------------|--|--------------------------|-----------------|
| Windows operating systems supported | Windows 7 Enterprise, Windows 8, Windows 7 Enterprise x64, Windows 8 Enterprise, Windows 7 Home Basic, Windows 8 Enterprise x64, Windows 7 Home Basic x64, Windows 8 Pro, Windows 7 Home Premium, Windows 8 Pro x64, Windows 7 Home Premium x64, Windows 8 x64, Windows 7 Professional, Windows 8.1, Windows 7 Professional x64, Windows 8.1 Enterprise, Windows 7 Starter, Windows 8.1 Enterprise x64, Windows 7 Starter x64, Windows 8.1 Pro, Windows 7 Ultimate, Windows 8.1 Pro x64, Windows 7 Ultimate x64, Windows 8.1 x64 | Sequential writing speed | 110 MB/s |
| TBW rating | 45 | Status | Launched |
| Market segment | Server | Product family | Data center SSD |
| SSD usage tag | Data center | Product series | Intel DC S3510 |
| SSD ARK ID | 86200 | Product codename | Haleyville |
| Certification | UL, CE, C-Tick, BSMI, KCC, Microsoft WHCK, VCCI, SATA-IO | | |
| Power | | | |
| Power consumption (read) | 1.93 W | | |
| Power consumption (write) | 1.91 W | | |
| Power consumption (idle) | 0.6 W | | |
| Brand-specific features | | | |
| Intel High Endurance Technology (HET) | ✘ | | |



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