

## Intel DC S3510 2.5" 240 GB Serial ATA III MLC

**Brand :** Intel

**Product code:** SSDSC2BB240G6

**Product name :** DC S3510



SSD DC S3510 Series (240GB, 2.5in SATA 6Gb/s, 16nm, MLC)

Intel DC S3510 2.5" 240 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: 240 GB, SSD form factor: 2.5", Read speed: 500 MB/s, Write speed: 260 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 *	240 GB	Intel Smart Response Technology version	0.00
Interface *	Serial ATA III		
Memory type *	MLC		
Hardware encryption *	✓		
Data transfer rate	6 Gbit/s		
Read speed	500 MB/s		
Write speed	260 MB/s		
Random read (4KB)	68000 IOPS		
Random write (4KB)	10200 IOPS		
Random read (8KB)	46500 IOPS		
Random write (8KB)	5000 IOPS		
Random read (100% span)	68000 IOPS		
Random write (100% span)	10200 IOPS		
Read latency	55 µs		
Write latency	66 µs		
Lithography	16 nm		
End-to-End Data Protection	✓		
Enhanced Power Loss Data Protection technology	✓		
SSD temperature monitoring	✓		
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 <sup>17</sup> bits read		
Mean time between failures (MTBF)	2000000 h		
		Operational conditions	
		Operating temperature (T-T)	0 - 70 °C
		Storage temperature (T-T)	-55 - 95 °C
		Operating relative humidity (H-H)	5 - 95%
		Storage relative humidity (H-H)	5 - 95%
		Operating vibration	2.17 G
		Non-operating vibration	3.13 G
		Operating shock	1000 G
		Non-operating shock	1000 G
		Maximum non-operating altitude	40000 m
		Maximum operating altitude	15000 m
		Weight & dimensions	
		Weight	88 g
		Other features	
		Product colour	Silver
		Internal	✗
		Processor lithography	16 nm
		Power consumption (active)	5.59 W
		Born on date	Q2'15
		Drive capacity	240 GB
		Launch date	2015-05-04T00:00:00
		Product name	Intel SSD DC S3510 Series (240GB, 2.5in SATA 6Gb/s, 16nm, MLC)
		SSD endurance rating	140 TBW
		SSD hardware encryption	AES 256 bit
		SSD power consumption (active)	3.06 W
		SSD power consumption (idle)	600 mW
		SSD shock	1000G/0.5 msec
		SSD weight	88 g
		Sequential reading	500 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	260 MB/s
TBW rating	140	Status	Launched
Market segment	Server	Product family	Data center SSD
SSD usage tag	Data center	Product series	Intel DC S3510
SSD ARK ID	86195	Product codename	Haleyville
Certification	UL, CE, C-Tick, BSMI, KCC, Microsoft WHCK, VCCI, SATA-IO		
Power			
Power consumption (read)	2.21 W		
Power consumption (write)	3.06 W		
Power consumption (idle)	0.6 W		
Brand-specific features			
Intel High Endurance Technology (HET)	✘		



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