

# Intel DC S3500 2.5" 120 GB Serial ATA III MLC

**Brand :** Intel

**Product code:** SSDSC2BB120G4

**Product name :** DC S3500



SSD DC S3500 Series (120GB, 2.5in SATA 6Gb/s, 20nm, MLC)

Intel DC S3500 2.5" 120 GB Serial ATA III MLC:

The Intel® SSD DC S3500 Series combines fast, consistent read performance with strong data protection and low active power levels to provide superior quality of service for video conferencing, big data analytics, or virtual client applications. Consistently low read latencies of 50µs typical (500µs max for 99.9% of the time) along with a tight distribution of up to 75,000 input/output per second (IOPS)<sup>1</sup> delivers a high-performance, reliable, and efficient SSD specifically designed for data center application upgrades.

Key features and benefits of this drive include an Intel® 3rd generation controller, industry-leading 20nm multi-level cell (MLC) NAND flash technology, full end-to-end data protection, enhanced power-loss data protection, and a broad range of capacities up to 800GB.

Intel DC S3500. SSD capacity: 120 GB, SSD form factor: 2.5", Read speed: 445 MB/s, Write speed: 135 MB/s, Data transfer rate: 6 Gbit/s



Features		Brand-specific features	
Security algorithms	256-bit AES	Intel High Endurance Technology (HET)	✗
SSD form factor *	2.5"	Intel Smart Response Technology version	0.00
SSD capacity *	120 GB	<b>Operational conditions</b>	
Interface *	Serial ATA III	Operating temperature (T-T)	0 - 70 °C
Memory type *	MLC	Storage temperature (T-T)	-55 - 95 °C
Data transfer rate	6 Gbit/s	Operating vibration	2.17 G
Read speed	445 MB/s	Non-operating vibration	3.13 G
Write speed	135 MB/s	Operating shock	1000 G
Random read (100% span)	75000 IOPS	Non-operating shock	1000 G
Random write (100% span)	4600 IOPS	Maximum non-operating altitude	12192 m
Read latency	50 µs	Maximum operating altitude	3048 m
Write latency	65 µs	<b>Technical details</b>	
Lithography	20 nm	Sustainability certificates	RoHS
S.M.A.R.T. support	✓	<b>Weight &amp; dimensions</b>	
TRIM support	✓	Weight	70 g
End-to-End Data Protection	✓	<b>Other features</b>	
Enhanced Power Loss Data Protection technology	✓	Product colour	Silver
Native Command Queuing (NCQ)	✓	Processor lithography	20 nm
SSD temperature monitoring	✓	Power consumption (active)	2.3 W
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 <sup>17</sup> bits read	Born on date	Q2'13
Mean time between failures (MTBF)	2000000 h	Drive capacity	120 GB
Windows operating systems supported	Windows 7 Home Basic, Windows 7 Home Basic x64, Windows 7 Home Premium, Windows 7 Home Premium x64, Windows 7 Professional, Windows 7 Professional x64, Windows 7 Starter, Windows 7 Starter x64, Windows 7 Ultimate, Windows 7 Ultimate x64, Windows 8, Windows 8 Enterprise, Windows 8 Enterprise x64, Windows 8 Pro, Windows 8 Pro x64, Windows 8.1, Windows 8.1 Enterprise, Windows 8.1 Enterprise x64, Windows 8.1 Pro, Windows 8.1 Pro x64, Windows 8.1 x64	Launch date	2013-06-11T00:00:00
Linux operating systems supported	✓	Product brief URL	<a href="http://www.intel.com/content/www/us/en/solid-state-drives/ssd-dc-s3500-brief.html">http://www.intel.com/content/www/us/en/solid-state-drives/ssd-dc-s3500-brief.html</a>
		Product name	Intel SSD DC S3500 Series (120GB, 2.5in SATA 6Gb/s, 20nm, MLC)
		SSD endurance rating	70 TBW
		SSD hardware encryption	AES 256 bit
		SSD power consumption (active)	2.3W
		SSD power consumption (idle)	0.8W
		SSD shock	1,000 G (Max) at 0.5 msec
		SSD weight	70 g
		Sequential reading	445 MB/s
		Sequential writing speed	135 MB/s
		Status	Launched
		Product family	Data center SSD
		Product series	Intel DC S3500
		Product codename	Wolfsville

**Features**

TBW rating	70
Market segment	Server
SSD usage tag	Data center
SSD ARK ID	75678
Certification	UL, C-Tick, BSMI, KCC, Microsoft WHCK, VCCI, SATA-IO

**Power**

Power consumption (idle)	0.8 W
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