

Intel 520 2.5" 180 GB Serial ATA III MLC

Brand : Intel

Product code: SSDSC2CW180A310

Product name : 520



SSD 520 Series (180GB, 2.5in SATA 6Gb/s, 25nm, MLC)

Intel 520. SSD capacity: 180 GB, SSD form factor: 2.5", Read speed: 550 MB/s, Write speed: 520 MB/s, Data transfer rate: 6 Gbit/s

Features		Operational conditions	
Security algorithms	128-bit AES	Operating shock	1500 G
SSD form factor *	2.5"	Weight & dimensions	
SSD capacity *	180 GB	Height	7 mm
Interface *	Serial ATA III	Weight	78 g
Memory type *	MLC	Packaging data	
Data transfer rate	6 Gbit/s	Bundled software	Intel Data Migration Software, Intel Solid-State Drive Toolbox
Read speed	550 MB/s	Other features	
Write speed	520 MB/s	Internal	✓
Random read (4KB)	85000 IOPS	Processor lithography	25 nm
Random write (4KB)	70000 IOPS	Drive capacity	180 GB
Read latency	80 µs	Launch date	Q1'12
Write latency	85 µs	Random write (8GB span)	60000 IOPS
Lithography	25 nm	SSD components	Intel NAND Flash Memory Multi-Level Cell (MLC) Technology
Enhanced Power Loss Data Protection technology	✗	SSD hardware encryption	AES 128 bit
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁶ bits read	SSD power consumption (active)	850 mW (MobileMark 2007 Workload)
Data retention	5 year(s)	SSD power consumption (idle)	600 mW (DIPM)
Mean time between failures (MTBF)	1200000 h	SSD shock	1,500 G/.5 msec
Market segment	Mobile	Sequential reading	550 MB/s
SSD ARK ID	66249	Sequential writing speed	520 MB/s
Power		Status	Discontinued
Power consumption	850 mA	Random read (8GB span)	50000 IOPS
Operational conditions		Last change	63903513
Operating temperature (T-T)	0 - 70 °C	Connectivity technology	Wired
Operating vibration	2.17 G	Product family	Legacy consumer SSD
Non-operating vibration	3.13 G	Product series	Intel 520
		Product codename	Cherryville



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