

Intel 320 2.5" 160 GB Serial ATA III MLC

Brand : Intel

Product code: SSSDA2BW160G3

Product name : 320

SSD 320 Series (160GB, 2.5in SATA 3Gb/s, 25nm, MLC)

[Intel 320 2.5" 160 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.

Intel 320. SSD capacity: 160 GB, SSD form factor: 2.5", Read speed: 270 MB/s, Write speed: 165 MB/s, Data transfer rate: 3 Gbit/s

Features		Operational conditions	
Security algorithms	128-bit AES	Operating vibration	2.17 G
SSD form factor *	2.5"	Non-operating vibration	3.13 G
SSD capacity *	160 GB	Operating shock	1500 G
Interface *	Serial ATA III	Non-operating shock	1500 G
Memory type *	MLC	Weight & dimensions	
Data transfer rate	3 Gbit/s	Weight	88 g
Read speed	270 MB/s	Other features	
Write speed	165 MB/s	Product colour	Silver
Random read (4KB)	21000 IOPS	Internal	✗
Random write (4KB)	39000 IOPS	Processor lithography	25 nm
Random read (100% span)	39000 IOPS	Born on date	Q1'11
Random write (100% span)	600 IOPS	Drive capacity	160 GB
Read latency	75 µs	Launch date	Q1'11
Write latency	90 µs	Product name	Intel SSD 320 Series (160GB, 2.5in SATA 3Gb/s, 25nm, MLC)
Lithography	25 nm	Random write (8GB span)	21000 IOPS
Enhanced Power Loss Data Protection technology	✓	SSD components	Intel NAND Flash Memory Multi-Level Cell (MLC) Technology
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁶ bits read	SSD power consumption (active)	150 mw (MobileMark 2007 Workload), 3.0 W (64K Sequential Write)
Mean time between failures (MTBF)	1200000 h	SSD power consumption (idle)	100 mw (DIPM), .7 W (Non-DIPM)
Market segment	Mobile	SSD shock	1,500 G/.5 msec
SSD ARK ID	56565	SSD weight	up to 88 ± 2 grams
Power		Sequential reading	270 MB/s
Power consumption (read)	3 W	Sequential writing speed	165 MB/s
Power consumption (write)	3 W	Status	Discontinued
Power consumption (standby)	0.7 W	Random read (8GB span)	39000 IOPS
Operational conditions		Last change	63903513
Operating temperature (T-T)	0 - 70 °C	Connectivity technology	Wired
		Product family	Legacy consumer SSD
		Product series	Intel 320
		Product codename	Postville Refresh



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