Intel 320 2.5" 160 GB Serial ATA III MLC

Brand : Intel

Product code: SSDSA2BW160G3

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	
Security algorithms	128-bit AES
SSD form factor *	2.5"
SSD capacity *	160 GB
Interface *	Serial ATA III
Memory type *	MLC
Data transfer rate	3 Gbit/s
Read speed	270 MB/s
Write speed	165 MB/s
Random read (4KB)	21000 IOPS
Random write (4KB)	39000 IOPS
Random read (100% span)	39000 IOPS
Random write (100% span)	600 IOPS
Read latency	75 µs
Write latency	90 µs
Lithography	25 nm
Enhanced Power Loss Data Protection technology	✓
Uncorrectable Bit Error Rate (UBER)	< 1 per 10^16 bits read
Mean time between failures (MTBF)	1200000 h
Market segment	Mobile
SSD ARK ID	56565

Power	
Power consumption (read)	3 W
Power consumption (write)	3 W
Power consumption (standby)	0.7 W

Operational conditions	
Operating temperature (T-T)	0 - 70 °C

Operational conditions	
Operating vibration	2.17 G
Non-operating vibration	3.13 G
Operating shock	1500 G
Non-operating shock	1500 G

Weight & dimensions	
Weight	88 g

Other features	
Product colour	Silver
Internal	✗
Processor lithography	25 nm
Born on date	Q1'11
Drive capacity	160 GB
Launch date	Q1'11
Product name	Intel SSD 320 Series (160GB, 2.5in SATA 3Gb/s, 25nm, MLC)
Random write (8GB span)	21000 IOPS
SSD components	Intel NAND Flash Memory Multi-Level Cell (MLC) Technology
SSD power consumption (active)	150 mw (MobileMark 2007 Workload), 3.0 W (64K Sequential Write)
SSD power consumption (idle)	100 mw (DIPM), .7 W (Non-DIPM)
SSD shock	1,500 G/.5 msec
SSD weight	up to 88 ± 2 grams
Sequential reading	270 MB/s
Sequential writing speed	165 MB/s
Status	Discontinued
Random read (8GB span)	39000 IOPS
Last change	63903513
Connectivity technology	Wired
Product family	Legacy consumer SSD
Product series	Intel 320
Product codename	Postville Refresh

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