

Intel 320 2.5" 40 GB Serial ATA II MLC

Brand : Intel

Product code: SSDSA2CT040G301

Product name : 320



SSD 320 Series (40GB, 2.5in SATA 3Gb/s, 25nm, MLC)

Intel 320. SSD capacity: 40 GB, SSD form factor: 2.5", Read speed: 200 MB/s, Write speed: 45 MB/s, Data transfer rate: 3 Gbit/s

Features		Power	
Security algorithms	128-bit AES	Power consumption (write)	0.15 W
SSD form factor *	2.5"	Power consumption (idle)	0.1 W
SSD capacity *	40 GB	Operational conditions	
Interface *	Serial ATA II	Operating temperature (T-T)	0 - 70 °C
Memory type *	MLC	Storage temperature (T-T)	-55 - 95 °C
Data transfer rate	3 Gbit/s	Operating vibration	2.17 G
Read speed	200 MB/s	Non-operating vibration	3.13 G
Write speed	45 MB/s	Operating shock	1500 G
Random read (4KB)	30000 IOPS	Non-operating shock	1500 G
Random write (4KB)	3700 IOPS	Weight & dimensions	
Random read (100% span)	30000 IOPS	Height	9.5 mm
Random write (100% span)	300 IOPS	Weight	88 g
Seek time	0.1 ms	Other features	
Read latency	75 µs	Product colour	Silver
Write latency	90 µs	Internal	✓
Lithography	25 nm	Processor lithography	25 nm
S.M.A.R.T. support	✓	Drive capacity	40 GB
TRIM support	✓	Launch date	Q1'11
Enhanced Power Loss Data Protection technology	✓	Random write (8GB span)	3700 IOPS
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁶ bits read	SSD components	Intel NAND Flash Memory Multi-Level Cell (MLC) Technology
Mean time between failures (MTBF)	1200000 h	SSD power consumption (active)	150 mw (MobileMark 2007 Workload), 2.0 W (64K Sequential Write)
Windows operating systems supported	✓	SSD power consumption (idle)	100 mw (DIPM), .7 W (Non-DIPM)
Market segment	Mobile	SSD shock	1,500 G/.5 msec
SSD ARK ID	56568	Sequential reading	200 MB/s
Power		Sequential writing speed	45 MB/s
Operating voltage	5 V	Status	Discontinued
Power consumption (read)	0.15 W	Random read (8GB span)	30000 IOPS
		Last change	63903513
		Product family	Legacy consumer SSD
		Product series	Intel 320
		Product codename	Postville Refresh



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