

## Intel 320 2.5" 300 GB Serial ATA III MLC

**Brand :** Intel

**Product code:** S5520UR, S5500HCV, S3420GPLX, S2600JFQ, S4600LH2, S1600JP4, R1208GL4DS, SR1625URR, H2312JFQJR, P4308IP4LHJC, R1304BB4GS9

**Product name :** 320

SSD 320 Series (300GB, 2.5in SATA 3Gb/s, 25nm, MLC)

Intel 320. SSD capacity: 300 GB, SSD form factor: 2.5", Read speed: 270 MB/s, Write speed: 205 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 *	300 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	Packaging data	
Write speed	205 MB/s	Package type	Box
Random read (4KB)	39500 IOPS	Other features	
Random write (4KB)	23000 IOPS	Product colour	Silver
Random read (100% span)	39500 IOPS	Internal	✗
Random write (100% span)	400 IOPS	Processor lithography	25 nm
Read latency	75 µs	Born on date	Q1'11
Write latency	90 µs	Drive capacity	300 GB
Lithography	25 nm	Launch date	Q1'11
Enhanced Power Loss Data Protection technology	✓	Product name	Intel SSD 320 Series (300GB, 2.5in SATA 3Gb/s, 25nm, MLC)
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 <sup>16</sup> bits read	Random write (8GB span)	23000 IOPS
Mean time between failures (MTBF)	1200000 h	SSD components	Intel NAND Flash Memory Multi-Level Cell (MLC) Technology
Market segment	Mobile	SSD power consumption (active)	150 mw (MobileMark 2007 Workload), 3.5 W (64K Sequential Write)
SSD ARK ID	56567	SSD power consumption (idle)	100 mw (DIPM), .7 W (Non-DIPM)
Compatible products	Intel S5520UR, S5500HCV, S3420GPLX, S2600JFQ, S4600LH2, S1600JP4, R1208GL4DS, SR1625URR, H2312JFQJR, P4308IP4LHJC, R1304BB4GS9	SSD shock	1,500 G/5 msec
Power		SSD weight	up to 88 ± 2 grams
Power consumption (read)	3.5 W	Sequential reading	270 MB/s
Power consumption (write)	3.5 W	Sequential writing speed	205 MB/s
Power consumption (standby)	0.7 W	Status	Discontinued
		Random read (8GB span)	39500 IOPS

**Operational conditions**

Operating temperature (T-T) 0 - 70 °C

**Other features**

Last change	63903513
Connectivity technology	Wired
Product family	Legacy consumer SSD
Product series	Intel 320
Product codename	Postville Refresh



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