

Intel SSDSC2BW056H601 internal solid state drive 2.5" 56 GB Serial ATA III MLC

Brand : Intel

Product code: SSDSC2BW056H601

Product name : SSDSC2BW056H601



SSD 535 Series (56GB, 2.5in SATA 6Gb/s, 16nm, MLC)

Intel SSDSC2BW056H601. SSD capacity: 56 GB, SSD form factor: 2.5", Read speed: 540 MB/s, Write speed: 480 MB/s, Data transfer rate: 6 Gbit/s



Features		Brand-specific features	
Security algorithms	256-bit AES	Intel Smart Response Technology version	1.00
SSD form factor *	2.5"	Operational conditions	
SSD capacity *	56 GB	Operating temperature (T-T)	0 - 70 °C
Interface *	Serial ATA III	Storage temperature (T-T)	-55 - 95 °C
Memory type *	MLC	Maximum operating temperature	70 °C
Hardware encryption *	✓	Operating relative humidity (H-H)	5 - 95%
Data transfer rate	6 Gbit/s	Storage relative humidity (H-H)	5 - 95%
Read speed	540 MB/s	Operating vibration	2.17 G
Write speed	480 MB/s	Non-operating vibration	3.13 G
Random read (8KB)	12000 IOPS	Operating shock	1500 G
Random write (8KB)	80000 IOPS	Non-operating shock	1500 G
Read latency	80 µs	Operating / non-operating shock	1500 G/0.5 ms
Write latency	85 µs	Technical details	
Lithography	16 nm	Sustainability certificates	RoHS
End-to-End Data Protection	✓	Weight & dimensions	
Enhanced Power Loss Data Protection technology	✗	Height	7 mm
SSD temperature monitoring	✗	Weight	78 g
Temperature monitoring and logging	✗	Logistics data	
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁶ bits read	Harmonized System (HS) code	8523510000
Mean time between failures (MTBF)	1200000 h	Other features	
Market segment	Mobile	Product colour	Silver
SSD usage tag	Consumer	Internal	✓
SSD ARK ID	89330	Processor lithography	16 nm
Export Control Classification Number (ECCN)	5A992C	Drive capacity	56 GB
Commodity Classification		Launch date	Q3'15
Automated Tracking System (CCATS)	G400878-1	Product brief URL	http://www.intel.com/content/www/us/en/solid-state-drives/ssd-535-brief.html
Certification	UL, CE, C-Tick, BSMI, Microsoft WHCK, VCCI, SATA-IO	Random write (8GB span)	80000 IOPS
Power		SSD hardware encryption	AES 256 bit
Power consumption (read)	0.165 W	SSD power consumption (active)	165 mW typical
Power consumption (write)	0.165 W	SSD power consumption (idle)	55 mW typical
Power consumption (idle)	0.055 W	SSD shock	1500 G/0.5 ms
Brand-specific features		Sequential reading	540 MB/s
Intel High Endurance Technology (HET)	✗	Sequential writing speed	480 MB/s
Intel® Rapid Start Technology	✓	Status	Discontinued
Intel® Smart Response Technology	✓	Random read (8GB span)	12000 IOPS
		Last change	63903513
		Intel Rapid Start Technology version	1.00
		Product family	Consumer SSD
		Product series	Intel 535



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