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

RoHS

Features	
Security algorithms	256-bit AES
SSD form factor *	2.5"
SSD capacity *	56 GB
Interface *	Serial ATA III
Memory type *	MLC
Hardware encryption *	✓
Data transfer rate	6 Gbit/s
Read speed	540 MB/s
Write speed	480 MB/s
Random read (8KB)	12000 IOPS
Random write (8KB)	80000 IOPS
Read latency	80 µs
Write latency	85 µs
Lithography	16 nm
End-to-End Data Protection	✓
Enhanced Power Loss Data Protection technology	✗
SSD temperature monitoring	✗
Temperature monitoring and logging	✗
Uncorrectable Bit Error Rate (UBER)	< 1 per 10^16 bits read
Mean time between failures (MTBF)	1200000 h
Market segment	Mobile
SSD usage tag	Consumer
SSD ARK ID	89330
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	G400878-1
Certification	UL, CE, C-Tick, BSMI, Microsoft WHCK, VCCI, SATA-IO

Power	
Power consumption (read)	0.165 W
Power consumption (write)	0.165 W
Power consumption (idle)	0.055 W

Brand-specific features	
Intel High Endurance Technology (HET)	✗
Intel® Rapid Start Technology	✓
Intel® Smart Response Technology	✓

Brand-specific features	
Intel Smart Response Technology version	1.00

Operational conditions	
Operating temperature (T-T)	0 - 70 °C
Storage temperature (T-T)	-55 - 95 °C
Maximum operating temperature	70 °C
Operating relative humidity (H-H)	5 - 95%
Storage relative humidity (H-H)	5 - 95%
Operating vibration	2.17 G
Non-operating vibration	3.13 G
Operating shock	1500 G
Non-operating shock	1500 G
Operating / non-operating shock	1500 G/0.5 ms

Technical details	
Sustainability certificates	RoHS

Weight & dimensions	
Height	7 mm
Weight	78 g

Logistics data	
Harmonized System (HS) code	8523510000

Other features	
Product colour	Silver
Internal	✓
Processor lithography	16 nm
Drive capacity	56 GB
Launch date	Q3'15
Product brief URL	http://www.intel.com/content/www/us/en/solid-state-drives/ssd-535-brief.html
Random write (8GB span)	80000 IOPS
SSD hardware encryption	AES 256 bit
SSD power consumption (active)	165 mW typical
SSD power consumption (idle)	55 mW typical
SSD shock	1500 G/0.5 ms
Sequential reading	540 MB/s
Sequential writing speed	480 MB/s
Status	Discontinued
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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