

Intel SSDSC2BW480H601 internal solid state drive 2.5" 480 GB Serial ATA III MLC

Brand : Intel

Product code: SSDSC2BW480H601

Product name : SSDSC2BW480H601



SSD 535 Series (480GB, 2.5in SATA 6Gb/s, 16nm, MLC)

Intel SSDSC2BW480H601. SSD capacity: 480 GB, SSD form factor: 2.5", Read speed: 540 MB/s, Write speed: 490 MB/s, Data transfer rate: 6 Gbit/s

Features		Operational conditions	
Security algorithms	256-bit AES	Operating temperature (T-T)	0 - 70 °C
SSD form factor *	2.5"	Maximum operating temperature	70 °C
SSD capacity *	480 GB	Operating relative humidity (H-H)	5 - 95%
Interface *	Serial ATA III	Storage relative humidity (H-H)	5 - 95%
Memory type *	MLC	Operating vibration	2.17 G
Hardware encryption *	✓	Non-operating vibration	3.13 G
Data transfer rate	6 Gbit/s	Operating shock	1500 G
Read speed	540 MB/s	Non-operating shock	1500 G
Write speed	490 MB/s	Operating / non-operating shock	1500 G/0.5 ms
Random read (4KB)	48000 IOPS	Weight & dimensions	
Random write (4KB)	37000 IOPS	Width	69.9 mm
Access time	500 ms	Depth	100.5 mm
Read latency	80 µs	Height	7 mm
Write latency	85 µs	Weight	78 g
Lithography	16 nm	Logistics data	
End-to-End Data Protection	✓	Harmonized System (HS) code	8523510000
Enhanced Power Loss Data Protection technology	✗	Other features	
SSD temperature monitoring	✗	Product colour	Silver
Temperature monitoring and logging	✗	Internal	✓
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁶ bits read	HDD capacity	480 GB
Mean time between failures (MTBF)	1200000 h	Processor lithography	16 nm
Market segment	Mobile	Power consumption (active)	165 W
SSD usage tag	Consumer	Born on date	Q2'15
SSD ARK ID	86729	Drive capacity	480 GB
Export Control Classification Number (ECCN)	5A992C	Launch date	Q2'15
Commodity Classification Automated Tracking System (CCATS)	G400878-1	Product brief URL	http://www.intel.com/content/www/us/en/solid-state-drives/ssd-535-brief.html
Power		Product name	Intel SSD 535 Series (480GB, 2.5in SATA 6Gb/s, 16nm, MLC)
Operating voltage	5 V	Random write (8GB span)	37000 IOPS
Power consumption (read)	0.165 W	SSD hardware encryption	AES 256 bit
Power consumption (write)	0.165 W	SSD power consumption (active)	165 mW typical
Power consumption (sleep)	0.005 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	490 MB/s
Intel® Rapid Start Technology	✓	Status	Discontinued
Intel® Smart Response Technology	✓	Random read (8GB span)	48000 IOPS
Intel Smart Response Technology version	1.00	Last change	63903513
		Intel Rapid Start Technology version	1.00
		Product family	Consumer SSD
		Product series	Intel 535
		Product codename	Temple Star



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