

Intel 540s M.2 1 TB Serial ATA III TLC



Brand : Intel

Product code: SSDSCKKW010X6X1

Product name : 540s

SSD 540s Series (1.0TB, M.2 80mm SATA 6Gb/s, 16nm, TLC)

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Intel 540s. SSD capacity: 1 TB, SSD form factor: M.2, Read speed: 560 MB/s, Write speed: 480 MB/s

Features		Operational conditions	
Security algorithms	256-bit AES	Operating relative humidity (H-H)	5 - 95%
SSD form factor *	M.2	Storage relative humidity (H-H)	5 - 95%
SSD capacity *	1 TB	Operating vibration	2.17 G
Interface *	Serial ATA III	Non-operating vibration	3.13 G
Memory type *	TLC	Operating shock	1000 G
Read speed	560 MB/s	Non-operating shock	1000 G
Write speed	480 MB/s		
Read latency	50 µs	Weight & dimensions	
Write latency	50 µs	Width	22 mm
Lithography	16 nm	Depth	80 mm
End-to-End Data Protection	✗	Height	2.23 mm
Enhanced Power Loss Data Protection technology	✗	Logistics data	
SSD temperature monitoring	✗	Harmonized System (HS) code	84717070
Uncorrectable Bit Error Rate (UBER)	< 1 per 10 ¹⁶ bits read	Other features	
Mean time between failures (MTBF)	1600000 h	Product colour	Black, Green
Market segment	Mobile	Internal	✓
SSD usage tag	Consumer	Drive capacity	1 TB
SSD ARK ID	94421	Launch date	Q1'16
Power		Random write (8GB span)	85000 IOPS
Operating voltage	3.3 V	SSD hardware encryption	AES 256 bit
Brand-specific features		SSD power consumption (active)	80 mW Typical
Intel High Endurance Technology (HET)	✗	SSD power consumption (idle)	40 mW Typical
Intel® Rapid Start Technology	✓	SSD shock	1000 G/0.5 ms
Intel® Smart Response Technology	✓	Sequential reading	560 MB/s
Intel Smart Response Technology version	1.00	Sequential writing speed	480 MB/s
Operational conditions		Status	Launched
Operating temperature (T-T)	0 - 70 °C	Random read (8GB span)	78000 IOPS
Storage temperature (T-T)	-55 - 95 °C	Last change	63903513
		Intel Rapid Start Technology version	1.00
		Product family	Consumer SSD
		Product series	Intel® SSD 540s Series
		Product codename	Loyd Star



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