

D3 SSDSC2KG019TZ01 internal solid state drive 2.5" 1.92 TB Serial ATA III TLC 3D NAND



Brand : Intel

Product family: D3

Product code:
SSDSC2KG019TZ01

Product name : Intel® SSD
D3-S4620 Series (1.92TB, 2.5in
SATA 6Gb/s, 3D4, TLC)

SSDSC2KG019TZ01

D3 SSDSC2KG019TZ01 internal solid state drive 2.5" 1.92 TB Serial ATA III TLC 3D NAND:

Enhanced Power Loss Data Protection

Enhanced Power Loss Data Protection prepares the SSD for unexpected system power loss by minimizing data in transition in temporary buffers, and uses on-board power-loss protection capacitance to provide enough energy for the SSD firmware to move data from the transfer buffer and other temporary buffers to the NAND, thus protecting system and user data.

Hardware Encryption

Hardware encryption is data encryption done at the drive level. This is used to ensure that the data stored on the drive is secured from unwanted intrusion.

End-to-End Data Protection

End-to-End Data Protection ensures integrity of stored data from the computer to the SSD and back.

Temperature Monitoring and Logging

Temperature Monitoring and Logging uses an internal temperature sensor to monitor and log airflow and device internal temperature. The logged results can be accessed using the SMART command.

| Features | | Features | |
|--|--------------------|--|-------------------|
| Security algorithms | 256-bit AES | Use conditions | Server/Enterprise |
| SSD form factor * | 2.5" | Export Control Classification Number (ECCN) | 5A992C |
| SSD capacity * | 1.92 TB | Commodity Classification Automated Tracking System (CCATS) | G162706 |
| Interface * | Serial ATA III | Power | |
| Memory type * | TLC 3D NAND | Power consumption (read) | 3.3 W |
| NVMe * | ✗ | Power consumption (write) | 3.3 W |
| Component for * | Server/workstation | Power consumption (idle) | 1.2 W |
| Hardware encryption * | ✓ | Operational conditions | |
| Data transfer rate | 6 Gbit/s | Operating temperature (T-T) | 0 - 70 °C |
| Read speed | 550 MB/s | Maximum operating temperature | 70 °C |
| Write speed | 510 MB/s | Operating vibration | 2.17 G |
| Random read (4KB) | 91000 IOPS | Non-operating vibration | 3.13 G |
| Random write (4KB) | 53000 IOPS | Operating shock | 1000 G |
| Random read (100% span) | 91000 IOPS | Non-operating shock | 1000 G |
| Random write (100% span) | 53000 IOPS | Weight & dimensions | |
| Random latency - read (up to) | 104 µs | Height | 7 mm |
| Random latency - write (up to) | 45 µs | Logistics data | |
| Sequential latency - read (up to) | 37 µs | Harmonized System (HS) code | 84717070 |
| Sequential latency - write (up to) | 38 µs | Other features | |
| End-to-End Data Protection | ✓ | Internal memory type | SATA 3.0 6Gb/S |
| Enhanced Power Loss Data Protection technology | ✓ | Power consumption (active) | 3.3 W |
| SSD temperature monitoring | ✓ | Launch date | Q3'21 |
| Uncorrectable Bit Error Rate (UBER) < 1 per 10 ¹⁷ bits read | | SSD endurance rating | 14.0 PBW |
| Mean time between failures (MTBF) 2000000 h | | SSD shock | 1000G,0.5ms |
| | | Sequential reading | 550 MB/s |

Other features

| | |
|--------------------------|--------------|
| Sequential writing speed | 510 MB/s |
| Status | Launched |
| Processor family | Intel SSD D3 |



0735858482646



735858482646



0675901848756



675901848756

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.