

# Intel Solid-State Drive D3-S4510 Series

SSD - encrypted - 480 GB - internal - M.2 2280 - SATA 6Gb/s - 256-bit AES

Group	HDDs
Manufacturer	Intel
Manufacturer item no.	SSDSCKKB480G801
EAN/UPC	0675901511957



## Description

Move to more efficient storage while preserving your legacy infrastructure. Replacing HDDs with the Intel SSD D3-S4510 series based on 64-layer Intel 3D NAND TLC, reduces the storage operating cost, accelerates read-intensive workloads at higher service levels, and improves overall system reliability and flexibility. These reliable SSDs meet demanding service level requirements while increasing server efficiency. Innovative SATA firmware and the advanced Intel 3D NAND make SSD D3-S4510 compatible with existing SATA setups for an easy storage upgrade.

## Main features

Product Description	Intel Solid-State Drive D3-S4510 Series - SSD - 480 GB - SATA 6Gb/s
Type	Solid state drive - internal
Capacity	480 GB
Hardware Encryption	Yes
Encryption Algorithm	256-bit AES
NAND Flash Memory Type	3D triple-level cell (TLC)
Form Factor	M.2 2280
Interface	SATA 6Gb/s
Data Transfer Rate	600 MBps
Features	Temperature Monitoring and Logging, Enhanced Power Loss Data Protection, End-to-end data protection

## Extended details

General	
Device Type	Solid state drive - internal
Capacity	480 GB
Hardware Encryption	Yes
Encryption Algorithm	256-bit AES
NAND Flash Memory Type	3D triple-level cell (TLC)
Form Factor	M.2 2280
Interface	SATA 6Gb/s

Features	Temperature Monitoring and Logging, Enhanced Power Loss Data Protection, End-to-end data protection
	<b>Performance</b>
SSD Endurance	1.15 PB
Drive Transfer Rate	600 MBps (external)
Internal Data Rate	555 MBps (read) / 480 MBps (write)
4KB Random Read	91000 IOPS
4KB Random Write	18000 IOPS
Average Latency	34 µs
	<b>Reliability</b>
MTBF	2,000,000 hours
Non-Recoverable Errors	1 per 10 <sup>17</sup>
	<b>Expansion &amp; Connectivity</b>
Interfaces	1 x SATA 6 Gb/s
Compatible Bay	M.2 2280
	<b>Power</b>
Power Consumption	3 Watt (active)   0.8 Watt (idle)
	<b>Manufacturer Warranty</b>
Service & Support	Limited warranty - 5 years
	<b>Environmental Parameters</b>
Min Operating Temperature	0 °C
Max Operating Temperature	70 °C
Shock Tolerance (operating)	1000 g @ 0.5 ms
Shock Tolerance (non-operating)	1000 g @ 0.5 ms
Vibration Tolerance (operating)	2.17 g
Vibration Tolerance (non-operating)	3.13 g

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