

Replace HDDs with the highly efficient Intel® SSD D3-S4510 and D3-S4610 Series to reduce storage operating cost, accelerate read-intensive workloads with power-efficient performance.



Move to more efficient storage while preserving your legacy infrastructure. Replacing HDDs with the Intel® SSD D3-S4510 and D3-S4610 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 latest generation of Intel® 3D NAND make SSD D3-S4510 and D3-S4610 compatible with existing SATA setups for an easy storage upgrade.





Reduce Operating Cost While Preserving Infrastructure Investment

Built for compatibility in legacy infrastructures, the SSD D3-S4510 and D3-S4610 minimize the costs associated with modernizing your data center. Available in a variety of capacities, from 240GB up to 7.68TB, in a standard 2.5-inch form factor, the larger capacity drives consume up to 6x lower power² and have up to 6x lower cooling² requirements than 2.5-inch HDDs. The SSD D3-S4510 and D3-S4610 also enable 3.2x more data to be stored in the same amount of space.¹

Key Benefits

- Compatible with existing SATA setups for an easy storage upgrade
- Up to 6x lower power² and lower cooling² requirements than 2.5inch HDDs
- 3.2x more data in the same amount of space.¹
- Up to 4.8x lower annualized failure rates (AFR) for fewer drive replacements⁴
- Up to 300x more IOPS/TB³ than HDDs

Accelerate Read-Intensive Workloads with Power-Efficient Performance

Simply by integrating SSDs into the environment, organizations can improve server agility with up to 300x more IOPS/TB³ than HDDs, supporting more users and better services to grow the business without expanding the server footprint. Additionally, the Flex Workload feature enables a common drive type to cover more workloads with flexible capacity, flexible endurance, and flexible power-efficient performance.

Improve System Reliability and Flexibility

The reliability of the SSD D3-S4510 and D3-S4610 reduces the need for drive replacement that is necessary with HDDs. With a 4.8x lower annualized failure rate (AFR) compared to HDDs, IT departments will spend less time and expense replacing or upgrading storage devices.⁴ Equally important, once the SSDs are installed, the innovative SATA firmware completes updates without reset, reducing downtime.

Minimize Service Disruptions

For years, Intel has been a leader in providing trusted data center SSDs that maximize data continuity in enterprise and cloud data centers. That reputation continues with the D3-S4510 and D3-S4610 with key capabilities that help ensure more uptime:

- Consistently delivers durable performance to optimize service level continuity
- End-to-end data protection helps keep data safe—even in the event of a power loss
- Up to 4.8x lower annualized failure rates (AFR) means fewer drive replacements⁴
- Innovative firmware completes updates without server reset, reducing downtime
- Simplified configurations reduce risk of component failure and streamline maintenance

Features At-a-Glance	
Capacity	S4510 : 2.5in - 240GB, 480GB, 960GB, 2TB (1.92TB), 4TB (3.84TB), 8TB (7.68TB) [₹]
	S4610 : 2.5in - 240GB, 480GB, 960GB, 2TB (1.92TB), 4TB (3.84TB), 8TB (7.68TB) [₹]
Performance ³	128KB Sequential Read/Write – up to 560/510 MB/s
	S4510 : 4KB Random Read/Write – up to 97,000/36,000 IOPS
	S4610 : 4KB Random Read/Write – up to 97,000/51,000 IOPS
Reliability	Designed for end-to-end data protection from silent data corruption, uncorrectable bit error rate < 1 sector per 10 ¹⁷ bits read
Power	S4510 : Active power up to 3.6W; Idle power up to 1.1W
	\$4610 : Active power up to 3.7W; Idle power up to 1.1W
Interface	SATA 6Gb/s
Form Factor	\$4510 : 2.5in x 7mm
	\$4610 : 2.5in x 7mm
Media	Intel 3D NAND, TLC
Endurance	\$4510 : up to 2 DWPD
	\$4610 : 3 DWPD
Warranty	5-year limited warranty



To learn more, visit www.intel.com/ssd

*Available in Q4 2018

- 1. Increase data stored per rack unit up to 3.2x vs. 2.5" HDD; Intel® SSD D3-S4510 at 2.5" 7.68TB (available Q4 2018) vs. Seagate Enterprise® Performance 10K SAS HDD 2.5" 2.4TB. Source: Intel® SSD D3-S4510 at 2.5" 7.68TB (available Q4 2018) vs. Seagate Enterprise® Performance 10K SAS HDD 2.5" 2.4TB. Source: Intel® SSD D3-S4510 at 2.5" 7.68TB (available Q4 2018) vs. Seagate Enterprise® Performance 10K SAS HDD 2.5" 2.4TB. Source: Intel® SSD D3-S4510 at 2.5" 7.68TB (available Q4 2018) vs. Seagate Enterprise® Performance 10K SAS HDD 2.5" 2.4TB. Source: Intel® SSD D3-S4510 at 2.5" 7.68TB (available Q4 2018) vs. Seagate Enterprise® Performance 10K SAS HDD 2.5" 2.4TB. Source: Intel® SSD D3-S4510 at 2.5" 7.68TB (available Q4 2018) vs. Seagate Enterprise® Performance 10K SAS HDD 2.5" 2.4TB. Source: Intel® SSD D3-S4510 at 2.5" 7.68TB (available Q4 2018) vs. Seagate Enterprise® Performance 10K SAS HDD 2.5" 2.4TB. Source: Intel® SSD D3-S4510 at 2.5" 7.68TB (available Q4 2018) vs. Seagate Enterprise® Performance 10K SAS HDD 2.5" 2.4TB. Source: Intel® SSD D3-S4510 at 2.5" 7.68TB (available Q4 2018) vs. Seagate Enterprise® Performance 10K SAS HDD 2.5" 2.4TB. Source: Intel® SSD D3-S4510 at 2.5" 7.68TB (available Q4 2018) vs. Seagate Enterprise® Performance 10K SAS HDD 2.5" 2.4TB. Source: Intel® SSD D3-S4510 at 2.5" 7.68TB (available Q4 2018) vs. Seagate Enterprise® Performance 10K SAS HDD 2.5" 2.4TB. Source: Intel® SSD D3-S4510 at 2.5"
- 2. "The power and cooling claims are based on measurements versus a market available HDD. Intel® SSD D3-S4510, 960 GB and Seagate Enterprise Performance 10K HDD 900GB 2.5" SAS 12Gbs Model ST900MM0168. Both testing a workload of 128 KB (131,072 bytes) at a Queue Depth equal to 32 sequential writes using FIO*. The benefit calculated as a function of the workload efficiency ratio by lower power ratio. Source Intel. Source for average power data for Seagate drive from https://www.seagate.com/www-content/datasheets/pdfs/enterprise-performance-10k-hddD51785-8C-1607US-en_US.pdf"
- 3. The performance per 1TB claim is based on measurements versus a market available HDD. Intel® SSD D3-S4510, 960 GB and Seagate Enterprise Performance 10K HDD 900GB 2.5" SAS 12Gbs Model ST900MM0168. Both testing a workload of 4 KB (4,096 bytes) at a queue depth equal to 32 random reads using FIO*. Performance advantage is normalized to 1TB of drive capacity. Source Intel.
- 4. Based on datasheet AFR target of .44% for Intel® SSD D3-S4510 vs industry AFR Average (2.11%): Source for Intel® SSD D3-S4510 Intel, source for industry AFR average Backblaze.com https://www.backblaze.com/blog/hard-drive-failure-rates-q1-2017/. For this claim, "better reliability" means a lower annual failure rate (AFR) for the product.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com.

The benchmark results may need to be revised as additional testing is conducted. The results depend on the specific platform configurations and workloads utilized in the testing, and may not be applicable to any particular user's components, computer system or workloads. The results are not necessarily representative of other benchmarks and other benchmark results may show greater or lesser impact from mitigations.

Tests document performance of components on a particular test, in specific systems. Differences in hardware, software, or configuration will affect actual performance. Consult other sources of information to evaluate performance as you consider your purchase.

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ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
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- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
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- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
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- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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Тел: +7 (812) 336 43 04 (многоканальный) Email: org@lifeelectronics.ru