



s600 Series SATA SSD

Fast and Reliable Enterprise-Class SSDs

sTec® s600 Series SATA SSDs provide users with advanced levels of data storage reliability and performance.

s600 Series SSDs from sTec are the ideal drop-in replacements for conventional HDDs in embedded systems, data centers, storage arrays and enterprise-related environments. A choice of enterprise-class, multi-level cell (MLC) or single-level cell (SLC) SSD solutions, along with unique flash management features—including sTec's proprietary flash controller, Secure Array of Flash Elements™ (SAFE) and CellCare™ technologies—result in an unmatched combination of read and write performance, reduced power usage and endurance.

When your applications demand fast and reliable access to data, s600 Series SSDs outperform HDDs, delivering up to 40,000 read IOPS and 37,000 IOPS, backed by sTec's full data-path protection.

Replaces HDDs with uncompromising performance, reliability and value.

Features	Benefits
sTec proprietary SSD controller technology	Provides unmatched performance, reliability and endurance in enterprise applications
High performance	Supports reads up to 40,000 IOPS and writes up to 37,000 IOPS
MLC and SLC support	Flexible high-performance and reliability in a variety of enterprise applications
Secure Array of Flash Elements (SAFE) Technology	Provides ability to recover from NAND flash page, block, die and chip failures, and maximizes the Mean Time Between Failure (MTBF) and Mean Time To Data Loss (MTTDL)
CellCare Technology	Extends the life of flash media to deliver enterprise-class endurance through advanced signal processing and adaptive flash management algorithms
Full data-path protection	Protects data in flash and cache memory and is the industry's first to map data using spare area of flash
Standard form factors	Drop-in replacements for 1.8-inch and 2.5-inch HDDs

Enterprise applications have growing data storage demands within data centers, using NAS and SAN storage, embedded systems and a growing number of consumer applications. For fast access to the right data at the right time, rely on s600 Series SSDs to deliver with uncompromising performance, reliability, endurance and value.

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Specifications	s600 Series SATA SSD	MLC	SLC	INDUSTRIAL SLC
Interface	Capacity	50/100/200/400GB	50/100/200GB	50/100/200GB
	Type	3Gb SATA	3Gb SATA	3Gb SATA
	Form Factor	2.5-inch/9.5mm	2.5-inch/9.5mm	2.5-inch/9.5mm
		1.8-inch/5mm		
Performance	Sustained Read Throughput	Up to 250MB/s	Up to 250MB/s	Up to 250MB/s
	Sustained Write Throughput	Up to 120MB/s	Up to 190MB/s	Up to 190MB/s
	Max 100% Read IOPS	Up to 37,000	Up to 40,000	Up to 40,000
	Max 100% Write IOPS	Up to 37,000	Up to 35,000	Up to 35,000
	Max 100% Random Read IOPS	22,500 (4K)	24,000 (4K)	24,000 (4K)
	Max 100% Random Write IOPS	3,100 (4K)	8,800 (4K)	8,800 (4K)
	Random 70% Read/30% Write IOPS	8,300 (4K)	13,000 (4K)	13,000 (4K)
	MTBF	2M hours with BER 1E-17	2M hours with BER 1E-17	2M hours with BER 1E-17
	Endurance	10X Drive Writes/Day	Unlimited	Unlimited
Physical	Power	6W	6W	6W
	Power Supply	5V or 3.3V	5V	5V
Environmental	Operational Temperature	0° to 60°C (Commercial)	0° to 60°C (Commercial)	-40° to 85°C (Industrial)
	Humidity	Non-condensing 5-95%	Non-condensing 5-95%	Non-condensing 5-95%
	Shock	350G	350G	1,500G
	Altitude	-1,000 to 80,000ft	-1,000 to 80,000ft	-1,000 to 80,000ft
	Compliance	Lead Free (RoHS)	Lead Free (RoHS)	Lead Free (RoHS)

sTec: The Leader in Enterprise-Class Solid-State Solutions

sTec, Inc. is a leading provider of enterprise-class, solid-state storage solutions designed for the ever-growing performance, reliability and endurance requirements of today's advanced data centers.

The industry's first company to deploy solid-state drives (SSDs) into large-scale enterprise environments,

sTec offers the industry's widest range of solid-state storage solutions, which protect critical information for major business and government organizations worldwide.

Headquartered in Santa Ana, California, sTec also serves the embedded and military/aerospace markets with SSDs for industrial and rugged environments.

Enabling Tomorrow's Applications

For more information on sTec products, solutions and technology, please visit www.stec-inc.com.



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