

# Stratus ftScalable™ Storage Family

Open fault-tolerant storage platform for high-performance applications

## Overview

As the amount of real-time data expands, it's no surprise that managing data growth and improving data storage recovery are top priorities for organizations. Successful data management today must address a wide range of demands, including security and regulatory compliance, performance bottlenecks, fast and accurate data recovery, scalability, and data availability.

Stratus ftScalable G5 from Penguin Solutions® is seamlessly integrated with the Stratus ftServer® platform. It is the next-generation hybrid storage array that optimizes performance and simplifies data storage and management while minimizing costs, for an always-on complete availability/storage solution.

This modular, high-performance array packs maximum performance and availability into an economical and scalable 2U powerhouse. It addresses dedicated, shared, and networked storage requirements so that you can dynamically configure and grow your system as quickly as needed. Its pooled storage enables advanced capabilities that maximize performance and availability of spinning hard disk drives (HDDs) and solid-state drives (SSDs) alike. Penguin's Stratus ftScalable storage array is ideal for critical application solutions, disaster recovery, business continuity, and regulatory compliance strategies.

## Key Benefits

- Manages "hot" and "cold" data storage in real time to deliver storage performance that is comparable to all-flash arrays at a fraction of the price.
- Accelerates business processes 3x by automatically virtualizing storage across device types, simplifying disk management in heterogeneous environments.
- Provides continuous availability in a flexible, high-performing array.
- Expands to up to six shelves with up to 725k IOPS, 144 spindles, and 259 terabytes of storage for business growth and maximum investment protection.
- Protects sensitive data with encrypted SSD disk technology.



## Key features

### Improve performance and reduce costs with real-time data tiering

---

Autonomically measures data usage, identifies “hot” spots as they occur, and continuously moves data to the best tier in real time, even with data usage patterns that change minute by minute.

### Purchase only what you need with thin provisioning

---

Streamlines the tasks of provisioning and modifying volumes, making it easier for informational technology (IT) managers to respond to as volumes of data grow. User-friendly reporting provides constant feedback on volumes, approaching thresholds, allocations, and over-allocations. IT managers can add storage as needed, easily expanding volumes without disruption.

### Increase cache capacity and IOPs performance with Read Cache

---

Supports SSD/HDD configurations that dramatically increase the amount of read-cache available to the storage system. Using one or two SSDs in the storage configuration automatically activates the read-cache function, improving overall performance of read-intensive applications and workloads.

### Accelerate business processes with pooled storage

---

Automatically virtualizes storage across device types and simplifies disk management in heterogeneous environments while enabling a wide array of advanced features, including thin provisioning, rapid RAID rebuild, and tiering.

## Maintain disk drive availability with Autonomous Drive Regeneration (ADR)

This self-healing technology automatically returns most failing hard disks to service without requiring a manual drive swap. ADR reconfigures the hard disk drive (HDD) to bypass an errant component (e.g., a bad drive head) in order to ensure availability.

## Streamline storage management with the management console

Includes performance monitoring; a dashboard for provisioning and storage tiering; provisioning reports by volume; wizards for configuration, installation, and provisioning; and customized views of storage.

## Get 100% dedicated device assignment with logical unit number (LUN) pinning

Allows IT managers to pin certain applications to the high-performance tier to ensure that mission-critical applications are always prioritized on SSDs or high-performance drives.

## Improve system uptime and data protection with quick rebuilds

Rebuilds only the data that is being used, restoring fault tolerance with two to five times the performance of standard rebuild designs.

## Prevent unauthorized data access with encryption drives

Provides data security via full-disk encryption with support for Seagate® Full Disk Encryption (FDE). Self-encrypting drives encrypt every write operation and decrypt every read operation without user intervention. FDE drives remain fully protected with an encryption key.

### Worldwide 24/7/365 comprehensive solution services

Penguin Solutions global technical support services are always available to diagnose, troubleshoot, and resolve problems online. Our fully supported phone-home capabilities connect you to expert support the instant a problem is detected. In addition, Penguin Solutions offers award-winning professional, managed, and educational services.

## System Specifications

Storage System Summary	
Chassis configuration	2U, 24 Small Form Factor (SFF) drives
Maximum chassis modules	6
Maximum disks	144
Maximum capacity (full array)	259/115 TB HDD/SSD
RAID levels	1, 5, 6, 10
Host ports	4 per controller / 8 per array
Host connectivity	32 Gb Fibre Channel
High-performance cache technology	DupliCache; EnviroStor

<b>Software</b>	
	Auto-Tiering & Snapshot
<b>Drive Type</b>	
Supported disk drives	Please visit: <a href="http://www.stratus.com/ftserver/disks">www.stratus.com/ftserver/disks</a>
<b>Availability Features</b>	
Redundant components	RAID I/O modules; power supplies; fans
Hot standby spare	Yes
Automatic controller failover	Yes
Multi-path I/O support	Yes
Quick rebuild	Yes
ADR (autonomous drive regeneration)	Yes
Hot-swappable, field-serviceable	Yes
High-performance cache technology	Drives; RAID I/O modules; power supplies / fans
<b>Power &amp; Packaging</b>	
Input voltage	100 – 240 VAC; 50 Hz, 60 Hz 4.5 A max., per unit, 460 W
Enclosure dimensions (H x W x D)	3.5" (2U) x 17.6" x 24.8" (rackmount)
Weight (fully loaded)	66 lbs / 30 kg
Environmental	RoHS, China RoHS, WEEE



## Contact Us

For sales queries, please contact [sales@penguinsolutions.com](mailto:sales@penguinsolutions.com).

To learn more about the Stratus ftScalable Storage Family and other Penguin Solutions products, please visit: [www.penguinsolutions.com](http://www.penguinsolutions.com)