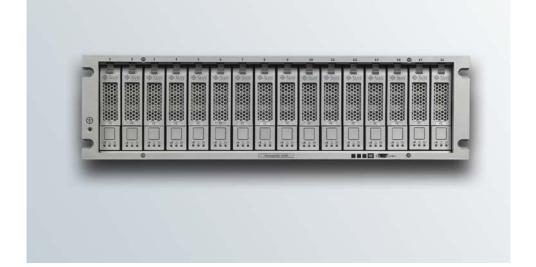


Advanced data protection for cost-conscious enterprises





# **Highlights**

- Start small and grow—A storage module common to the entire StorageTek<sup>™</sup> Modular family permits online, pay-as-you-grow scalability, protecting investments over time
- Non-disruptive flexibility— Increase productivity by easily and dynamically scaling with the application
- Complete system availability —
   High-availability design and a
   broad set of enterprise-level data
   protection software provides continuous access to data
- Simplify management and configuration—The Sun StorageTek\*
   Common Array Manager software provides a browser-based, application-oriented management console that works across the entire product family
- With a mix of Fibre Channel and SATA drives, users can easily design a tiered storage environment

The Sun StorageTek™ 6140 array, a StorageTek™ Modular Line storage system, is ideal as primary storage for business-critical applications and as a data protection solution. It is an affordable entry point into a family of products that grows with businesses in capacity, availability, performance, and connectivity, so users can manage data with confidence.

### Flexible configurations — start small, grow

The array, which supports up to 112 disks, is upgradeable and compatible across its product family. The StorageTek Modular Line shares a common building block for capacity increases, data-in-place migration, and mixing SATA and Fibre Channel drives within a storage module. Users choose from four Gb/s Fibre Channel ports and two or four gigabytes of cache.

## Simplify management and configuration

SMI-S-compliant Sun StorageTek Common Array Manager software is the array's browserbased, application-oriented management console. Users provision by application for precise, predictable, and repeatable results through the use of predefined or custom Application Profiles. Accessible from anywhere, its easy, browser-based management console requires only a secure Internet connection.

### Complete system availability

High-availability architecture is the key: The array's redundant design includes switched technology with point-to-point connections. Controller firmware upgrades, capacity and volumes additions, RAID and segment size migration, changing volume characteristics all may be done on the fly, optimizing protection and minimizing risk.

## **Software for business continuity**

Optional software solutions extend data protection and support continuous access. Sun StorageTek™ Data Replicator software enables synchronous and asynchronous replication to remote sites. Sun StorageTek™ Data Snapshot software helps conserve costly disk space with real-time protection of critical volumes. Sun StorageTek™ Volume Copy software helps create independent copies of production volumes quickly.

# StorageTek 6140 Array Specifications

StorageTek 6140 Array		6140 — 2 GB cache	6140 — 4 GB cache	
Controller card		Dual Fibre Channel RAID controller cards		
Cache size (with ECC protect	tion)	Two GB data cache	Four GB data cache	
Host ports		Four (SFPs)	Eight (SFPs)	
Host interfaces/link speeds		Switched FC or FC-AL / 4 GI	o/s, 2 Gb/s, 4 Gb/s	
Other interfaces		(2) 4 Gb/s or 2 Gb/s FC expansion ports (switched loop) (2) 6-pin Mini-DIN to 9 pin serial ports (4) RJ45 10/100 Base-T network connectors		
RAID level		0, 1, 3, 5, and 1+0		
Cache battery backup		Up to 72 hours		
Integrated data services/ premium features (optional)	)	Sun StorageTek Data Snapshot (supports four snap shots per volume, 512 per array) Sun StorageTek Data Volume Copy (supports eight active copies per volume, 512 per array) Sun StorageTek Data Replicator Software (supports up to 32 replicated volumes) Sun StorageTek Storage Domain: 4, 8, 16, 64 (6140-2 GB cache supports up to 16 only)		
Dynamic capacity expansion	1	5 to 64 drives 365 GB to 32 TB	5 to 112 drives 365 GB to 56 TB	
Expansion tray (FC-SBOD)		Up to three expansion trays	Up to six expansion trays	
Dynamic reconfiguration		Volume expansion, RAID m expansion, segment size m disk reconfiguration, contr	nigration, volume/ virtual	
Drive depopulation		Scales from five to 16 hard	disk drives per tray	
Volume		Up to 1,024	Up to 1,024	
Global hot spares		Up to 15	Up to 15	
Maximum array capacity		32 TB	56 TB	
Disk drives				
Form factor		3.5 in., low-profile		
Interface		Dual-ported Fibre Channel		
Supported drives/system pe	r tray	capacity (raw, unformatted	)	
146 G 146 G 300 G		3 15,000-rpm 4 Gb/s IB 15,000-rpm 4 Gb/s IB 10,000-rpm 2 Gb/s IB 10,000-rpm 2 Gb/s IB 7,200-rpm 3 Gb/s	1,168 GB per tray (3 RU) 2,336 GB per tray (3 RU) 2,336 GB per tray (3 RU) 4,800 GB per tray (3 RU) 8,000 GB per tray (3 RU)	
Sunnorted software:				

### Supported software:

- Sun StorageTek™ QFS Software Sun StorageTek™ SAM-FS Software
- Sun™ Cluster Software
- Sun StorageTek™ Enterprise Backup Software (EBS)
- Solstice™ DiskSuite 4.2.1 (in conjunction with Solaris 8 Operating Environment)
- Solaris™ Volume Manager (embedded in Solaris 9 Operating Environment)
- Symantec™ NetBackup (NBU)
- Symantec™ Volume Manager with DMP (VxVM)
   Symantec™ File System (VxFS)
- Symantec™ Storage Foundation

### **Learn More**

For additional information on this product, go to: sun.com/storagetek/disk\_systems/midrange/6140/

### Management software support:

Sun StorageTek Common Array Manager (CAM) software (included)

#### Operating system support

- Solaris™ Operating System 8, 9, 10, and x64
- Microsoft Windows 2000 Server and Advanced Server (SP4)
- Microsoft Windows 2003 Server Standard, Enterprise, and Web editions
- HP-UX 11.11 and 11.23
- IBM AIX 5.2, 5.3
- Red Hat Linux AS/ES/WS Enterprise Edition 3.0/4.0
- SUSE LINUX LES 8 and 9
- Netware 6 SP5, Netware 6.5 SP3
- SGI IRIX 6.5.28
- VMware ESX 3.0

The Sun StorageTek 6140 array is fully supported with major host operating systems and multipath drivers. For details, please refer to Sun StorageTek Interop Tool at: https://extranet.stortek.com/interop/interop

Host connectivity	
Host/HBA/FC switches	https://extranet.stortek.com/interop/interop
Multipath driver	Sun Traffic Manager for the Solaris OS Veritas DMP as well as native driver for other OSs
Warranty	
Duration: Phone Support: On-Site Service: On-Site Response Time:	Three (3) years 8 AM-8 PM, Mon-Fri Next Business Day, 8 AM-5 PM, Mon-Fri Next Business Day, Local Business Hours
Service upgrade	Spectrum <sup>™</sup> available
Dimensions	
Height x width x depth	12.95cm (5.1 in.) x 44.70cm (17.6 in.) x 57.15cm (22.5 in.)
Weight (maximum)	40 kg (88 lb.)
Power Requirements	
AC power (CU)	4.4 A max. operating @100 V AC (90–136 V AC range), 50/60 Hz 1.9 A max. operating @240 V AC (198-264 V AC range, 50/60 Hz
Environment	



Heat output

Altitude

Vibration

Shock

Operating temperature Relative humidity

Safety and emissions IEC 60950, EN 60950, UL/CSA 60950, FCC Part 15 (47CFR15B), CISPR 22 (EN55022—RF

Radiated and Conducted Emissions), IEC 61000-3-2,

100 ft. (30.5m) below sea level to 9,840 ft. (3,000m)

Random vibration to specified power spectral density

IEC 61000-3-3

Immunity CISPR 24 (EN55024), IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000 4-6, IEC 61000-4-11

10° to 40°C (50° to 104°F)

427 watts (1,459 BTUs/hr.)

10 G, 11 ms half-sine

20-80 percent noncondensing

