



Integrated Workgroup Blade System

SGI® Origin® 400



KEY FEATURES

Enterprise Workgroup Ready

Extensive software certifications and advanced virtualization support

Flexible

Scales to six dual-socket blades plus highly configurable SAN storage

Powerful

Up to 72 cores of Intel® Xeon® 5600 series processors accelerate application performance

Simple

Integrated management console makes administration a breeze

Reliable

Robust hardware platform with redundant storage, power and cooling

Exceptional Value

Lower your costs with a fully integrated solution designed to fit your budget while delivering many high-end features

Enterprise Workgroup Ready

Origin 400 is a true "business-in-a-box" blade system with seamless installation, migration and growth capabilities. The system's flexibility and high level of integration makes Origin 400 an exceptional value for small to medium-sized enterprises (SMEs) looking for the ideal integrated solution.

Flexible and Powerful

Scaling to six dual-socket compute blades and fourteen 2.5" SAS drives in a fully integrated Storage Area Network (SAN), Origin 400 supports the latest quad- and six-core Intel processor 5600 series (codenamed "Westmere-EP") for up to 72 cores per system.

Origin 400 was designed to concurrently serve a broad range of SME workloads where virtualization support is critical. The integrated virtualized SAN is the perfect match for software virtualization such as VMWare ESX 4.0. Add support for industry-standard operating systems such as Microsoft® Windows® Server, SUSE Linux® Enterprise Server and Red Hat® Enterprise Linux and you have a platform optimized for delivering high application performance.

Easy Set Up and Administration

For a smooth out-of-the-box experience, Origin 400 ships as a factory-tested, pre-integrated platform and arrives ready for immediate integration. The system's dedicated management module provides comprehensive web-based management

facilities. This makes it easy for administrators to monitor hardware components in real time, obtain console access, and create and manage storage pools and LUNs on the integrated SAN.

Reliable

Origin 400 delivers a rich set of Reliability, Availability and Serviceability (RAS) features. Primary hardware elements including power supplies, cooling fans, RAID controllers and networking modules can be configured redundantly and are hot-pluggable for rapid serviceability. Virtualization software in conjunction with the Origin 400's storage virtualization features makes it easy to migrate virtualized server instances from one blade to another in the unlikely event of a compute blade failure.

Exceptional Value

Origin 400 delivers value on many levels, including both cost of acquisition and total cost of ownership. The product's value is particularly clear when you consider the cost and administrative effort normally associated with deploying even a small independent SAN. In the case of Origin 400, compute, storage and networking is all unified in one fully integrated system for the best possible value.



SGI Origin 400

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Origin 400 Enclosure Specifications

www.sgi.com/Origin400

Model Number	Origin 400
Enclosure Type	19" rackmount blade chassis
Max. Blades	Six dual-socket blades
Max. Processors (Cores)	12 (72 cores)
Max. Memory	576GB (96GB/blade)
Hard Disk Drives & Max. Capacity	Fourteen 2.5" (max. 4.2TB) SAS hot-swap drives
Max. Storage Modules	Two redundant RAID controller modules with 1 GB battery-backed write cache (512MB/module). RAID 0, 1, 1E, 5, 6, 10.
Max. Networking Modules	Two redundant Ethernet switch modules with 20 external GigE full-duplex ports (10/module). Port, VLAN and Advanced Switch Configuration via the Management Module. Layer 2+ features include ACL, QOS, Link Aggregation, 10K Jumbo Frame support, VLAN support, STP and RSTP. Ports are non-blocking for up to wire-speed performance.
Management Module	Comprehensive remote management capabilities include real-time hardware status monitoring, remote media and remote console access with Keyboard Video Mouse (KVM) support via external 10/100 Ethernet port. Server and SAN storage configuration support including RAID set and LUN management.
Cooling Architecture	Front-to-back airflow with 1+1 redundant, hot-swap I/O fan modules
Power Architecture	3+1 redundant 1000W power supply modules
Input Power	110-240 VAC
Dimensions (HxWxD)	10.3" (6U) x 17.5" x 28.4"



Origin 400 Compute Blade Specifications

Chipset	Intel® 5520
Max. Processors	Two Intel® Xeon® quad- or six-core 5500 or 5600 series
Max. Cores	12
Max. Memory	96GB
Memory Slots & Type	12 x 1333/1066/800 MHz DDR3 ECC reg. RAS features include channel mirroring, demand scrubbing, patrol scrubbing and channel independent mode.
Networking (On-board)	Dual GigE (Intel 82575EB)/node
Video (Onboard)	Server Engines Pilot II

Origin 400 Software Support

Operating Systems	Microsoft® Windows® Server 2008; Red Hat Enterprise Linux 5; Novell SUSE Linux Enterprise Server 10, 11
Virtualization	VMWare ESX 4.0, Citrix XenServer, Microsoft Hyper-V
Database Software	Oracle, MySQL, Microsoft SQL Server 2008

Corporate Office
46600 Landing Parkway
Fremont, CA 94538
tel 510.933.8300
fax 408.321.0293
www.sgi.com

North America +1 800.800.7441
Latin America +55 11.5185.2860
Europe +44 118.912.7500
Asia Pacific +61 2.9448.1463

