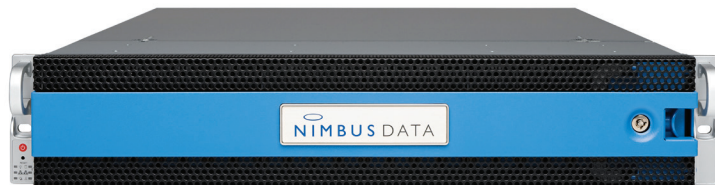


S-Class Flash Memory Platform

Breakthrough storage performance and efficiency for virtualization, databases, HPC, and cloud



Highlights

- 100% Flash Memory (solid state storage)
- Up to 50x faster than conventional disk arrays
- Consumes up to 80% less power and rackspace
- Unified multi-protocol SAN and NAS platform
- Comprehensive data management software
- Ethernet, Fibre Channel, and/or Infiniband ports
- Redundant power, cooling, and IO controllers

Advantages

- Performance: Up to 800,000 4K IOps
- Throughput: Up to 8,000 MBps
- Latency: As low as 0.2 ms
- Efficiency: As low as 14 W per TB
- Scalability: From 2.5 TB to 250 TB
- Density: Up to 5 TB per rack U
- Simplicity: All-inclusive HALO software

Next-generation Intelligent Solid State Storage Platform

Featuring up to 600 enterprise flash modules and Nimbus' comprehensive HALO operating system, the S-Class offers up to 50x greater performance while consuming up to 80% less energy and rackspace than traditional 15K rpm disk arrays. Designed for the rigorous storage requirements of virtualization, databases, HPC, and cloud infrastructure, the S-Class offers non-disruptive scalability to 250 TB of solid state storage in a modular design that supports Ethernet, Fibre Channel, and Infiniband networks. The Nimbus S-Class simplifies the consolidation of both block (SAN) and file (NAS) storage by supporting iSCSI, FCP, SRP, NFS, and CIFS protocols.

With point-in-time snapshots, async/sync replication, thin provisioning, and inline deduplication, the S-Class delivers complete management and data protection in one simple interface, without complex software licensing. Nimbus' innovative flash modules deliver exceptional durability with hot-swap, RAID, wear-leveling, TRIM, and ample NAND reserve. Winner of numerous awards, the S-Class is the foundation of Nimbus' Sustainable Storage™ vision for enabling greener, more agile datacenters.

Nimbus S-Class Specifications

Models	S255M / S255E (expansion) S505M / S505E (expansion) S1005M / S1005E (expansion)	2.5 TB: 24 x 100 GB Enterprise Flash Modules 5.0 TB: 24 x 200 GB Enterprise Flash Modules 10.0 TB: 24 x 400 GB Enterprise Flash Modules
Connectivity	Network Ports Management Ports	Up to 16 ports of Gigabit Ethernet Up to 16 ports of 10 Gigabit Ethernet Up to 8 ports of 8 Gbps Fibre Channel Up to 8 ports of 40 Gbps QDR Infiniband 2 x GbE (RJ-45)
Storage	Maximum Blades Maximum Capacity NAND Configuration	600 250 TB Enterprise-grade flash with 28% reserve provision
System	Software Processor Cores Redundant Components	Nimbus HALO operating system 12 Intel Westmere/Nehalem cores (24 virtual cores) Power supplies, fans, and network controllers
Platform Support	Operating System Support Virtualization Support	Windows Server 2003/2008, Windows 7, Linux, Solaris, HP/UX, Netware, AIX VMware ESX Server, Citrix XenServer, Microsoft Hyper-V, Virtual Iron
Dimensions	Height Width Depth Weight (maximum)	2 RU Units (3.46 in or 87.9 mm) 17.49 in or 443.7 mm 25.18 in or 639.6 mm 65.0 lbs or 29.5 kg
Power	Voltage Frequency Electrostatic Discharge	100 - 240 VAC 48 - 62 Hz 15 KV per test specification
Environmental	Ambient Temperature Relative Humidity Altitude Acoustics	Operating: 5 to 35 °C, Non-operating: 1 to 50 °C Operating: 10% to 80% non-condensing Operating: 0 to 2,133 m, Non-operating: -305 to 12,192 m < 7.0 BA in idle state at 23 °C ambient temperature
Shock & Vibration	Operational Shock Operational Vibration Non-operational Shock Non-operational Vibration	5G for 10ms Random 0.21 grms 5-500 Hz 30G for 10ms Random 1.04 grms 2-200 Hz
Agency Approvals	UL and cUL listed. Tested to UL 60950. FCC Class A. Certified Body Certificate and Report to IEC60950. CE marked to requirements of Low Voltage Directive 73/23/EEC and Electromagnetic Compatibility Directive 89/336/EEC.	
Warranty & Support	One (1) year warranty standard, extendable to five (5) years. Premium onsite service options and spares kits available.	

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