



Simply Better Storage.

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Intelligent Clustered Operating System



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To purchase, call Scale
at 877-SCALE-59

Perfect for
Virtualization,
storage consolidation,
remote offices,
and disk backup

D A T A S H E E T

Scale Computing storage—built with Scale’s unique Intelligent Clustered Operating System (ICOS™) — takes the stress out of data management. Scale’s ICOS allows many devices to form a single storage pool that shares the combined power and capacity of all individual devices. This architecture removes the risk from storage spending by allowing capacity and performance growth of the system to match storage needs.

Scale’s products offer the following features:

Feature Highlights

Scale-out architecture	The Intelligent Clustered Operation System (ICOS™) creates a single storage pool spanning all devices that can be expanded over time as demands require, so you never outgrow your storage.
Unified storage	Simultaneous SAN and NAS support in the same storage system without any additional hardware or licensing costs makes consolidation easier to manage.
No single point of failure	For stress-free storage, all data exists on two different nodes. In the event of a failure, data access continues on the secondary node without any interruption to services while it is also automatically mirrored to a remaining node in the cluster without the need for a hot-standby disk.
Thin provisioning	Over-allocation of capacity enables higher system utilization, avoiding the need for purchasing additional storage prematurely
Snapshots	Efficient copy-on-write snapshot support
Remote replication	Block-level difference replication with multi-site support for one-to-one, one-to-many, or many-to-one replication over the WAN

Storage Area Network Support

SAN protocols	iSCSI
Max LUNs	255
Hosts supported	All standards-compliant iSCSI initiators (VMware, Windows, Linux, MacOS)
Security	IP based access control, CHAP Authentication
High availability	Virtual IP failover of iSCSI targets
Load balancing	Multipath support incl. SPC-3 persistent reservation targets

Network Attached Storage Support

NAS protocols	NFS, CIFS
SECURITY (NFS)	IP/Host based access control
SECURITY (CIFS)	ADS Authentication (Kerberos)
High availability	Virtual IP Addresses are used to serve NAS protocols. In the case of a node / Ethernet failure, another node will pick up the down IP and continue to communicate with the client without losing connectivity.
Load balancing	DNS round robin resolution of virtual IP addresses

Management

Management interface	Serial Console and web browser-based Administrative GUI over https
Notification methods	Email, Syslog, Web Administrative GUI
Remote support	Administrator controlled access to the system by Scale Support via SSH



Whether you need capacity, performance or both, finally there's a SAN and NAS solution that takes the stress out of storage

S-Series

A perfect balance of capacity and performance, the S-Series is our most flexible product line and offers multiple storage node capacities. Each S-Series storage node uses dependable and affordable SATA drives and dual 1GbE network ports for an even balance of capacity and performance. If you want to maximize storage capacity at the lowest price, use the highest capacity starter cluster that meets your needs and add expansion storage nodes now or later to meet your growth.

S-Series storage nodes

**Minimum three nodes per cluster*

1U Chassis

(4) Hot-swappable Front-load Bays

SATA HDDs

Model Specifications:

Storage Node	Raw Capacity	Usable Capacity	Cache	Network Ports
S1	2 TB	1 TB	2 GB	(2) 1GbE
S2	4 TB	2 TB	2 GB	(2) 1GbE
S4	8 TB	4 TB	2 GB	(2) 1GbE

M-Series

The M-Series is designed for enhanced performance in highly active application and database configurations and offers multiple storage node capacities, drive technologies and cache options. All offer datacenter-class power and network redundancy. M-Series storage nodes are offered in SATA or SAS disk configurations. In comparison to the S-Series, M-Series nodes offer increased amounts of cache and are available with quad 1GbE or dual 10GbE ports.

M-Series storage nodes

**Minimum three nodes per cluster*

1U Chassis

(4) Hot-swappable Front-load Bays

SATA or SAS HDDS

Dual power supplies

Model Specifications:

Storage Node	Raw Capacity	Usable Capacity	Cache	Network Ports
R1	2 TB	1 TB	4 GB	(4) 1GbE
R2	4 TB	2 TB	4 GB	(4) 1GbE
R4	8 TB	4 TB	12 GB	(4) 1GbE
M1	2 TB	1 TB	12 GB	(4) 1GbE
M2	4 TB	2 TB	12 GB	(4) 1GbE
M4	8 TB	4 TB	12 GB	(4) 1GbE
M1z	2 TB	1 TB	12 GB	(2) 10GbE
M2z	4 TB	2 TB	12 GB	(2) 10GbE
M4z	8 TB	4 TB	12 GB	(2) 10GbE
M12x (SAS)	2.4 TB	1.2 TB	12 GB	(4) 1GbE

