

# SeaChange® Matrix of Drives

Extreme Density & Scalable Library Server for OEMs

QuickSpec

The SeaChange Matrix of Drives delivers OEM's and value-added resellers the ability to create custom storage solutions that deliver the flexibility and scalability to meet the most demanding library storage needs.

With software and hardware interfaces that support industry standard I/O and operating systems, the SeaChange Matrix of Drives is a purpose built library server designed for OEMs cashing in on the explosion of online and offline content. With support for either Windows Server or Linux CentOS management planes, OEMs can build custom value-added applications and services that can leverage the superior capabilities of the system. The Matrix of Drives comes bundled with 72 SAS drives pre-populated across all six drive cells which simplifies ordering and configuration management.

Redundancy and non-stop operation is delivered via a fully redundant and hot-swappable architecture. Disk drives, cooling fans and drive cells are fully hot-swappable and powered by four N+1 hot-swappable power supplies. The architectural design surpasses competing library solutions on the market to deliver the highest performance, security and data integrity for stored library content.

## *This Matrix of Drives solution offers OEM's:*

- Reduced Total Cost of Ownership (TCO) driven by unsurpassed scalability and density to meet capacity demand with a minimum footprint
- Simplified integration with industry operating systems using open interfaces
- Easy server deployment, maintenance, management and scaling

## FEATURES & BENEFITS

**Storage capacity:** 72TB of storage capacity with hot swappable SATA drives

**Density:** Up to 72TB per 5RU or 14.4TB per one standard rack unit

**Scalability:** From 12 drives up to 72 drives

**Economical:** Delivers the lowest storage cost/GB in the industry

**Fault Tolerance:** Fault resilient design for power supplies and fans

**Open:** Supports 3rd party operating system delivering flexible integration. CLI and SDK available

**Management:** Easy-to-use software for deployment configuration and support



## PRODUCT SPECIFICATIONS

**Drive Density:** 5RU, 72 Drives, 6 groups of up to 12 drives each

**Maximum drives supported per Matrix:** 72 7.2K RPM SATA drives

**Supported drive types:** 1.5 - 3Gbps SAS/SATA 3.5", 1TB capacities

**Hot swap and redundancy:** Disk drives, cooling fans, power supplies, cells

**External Interfaces:** 6

**Number of host/external ports:** 6

**Protocols:** SAS, SMP

**Storage Management:** SES compliant

**Fans:** dual-redundant, hot swappable

**Power supplies:** four (4) N+1 redundant, hot swappable

**Rack support:** 19" industry standard RETMA rack

**Size: Height:** 22.2 cm (8.75 inches)

**Depth:** 76.2 cm (30.0 inches)

**Width:** 44.7 cm (17.7 inches)

EIA310 compliant

**Weight: Empty Chassis:** ~20.4 kg (45 lbs) no P/S

**Fully configured:** 106.54 kg (234 lbs)

### Operating Environment:

Air temperature: 10° C to 35° C (50° F to 86° F)

Altitude: 3,000 m (9,800 ft) maximum above sea level

Humidity: 20% to 80% non-condensing

### Supported Operating Systems:

Microsoft Windows Server 2003

Microsoft Windows Server 2008

Linux CentOS 5.3

### Supported SAS/HBA Controllers:

ATTO HBA

LSI 8880 RAID

PCI-E LSI HBA

PCI-E LSI 8888ELP MegaSAS RAID Controller

PCI-E LSI HBA

PCI-E ATTO HBA

### Host Interconnect (Configuration Specific):

4 x iPASS SAS cable, 1 meter to 3 meters in length

1m with miniSAS connects both ends

1m with miniSAS connector and bulkhead connector

## Regulatory Approval

FCC Part 15, Class A Radio Frequency Devices

ICES-003, Class A, Industry Canada, Interference Causing Equipment

EN55022, Class A Radio Disturbance Characteristics

VCCI, V-3/2005.04, Class A

AS/NZS CISPR 22, Class A, Australian/New Zealand Emissions

EN61000-3-2, Class A Harmonic Current Emissions

European CE & CB

ETL Safety 60950-1

EN61000-3-3 Voltage Fluctuations and Flicker

EN55024 Information Technology Equipment Immunity



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