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$\int^{\infty}$Stor

(ĭn′tĭ-grəl-stôr)

DATA STORAGE
DATA BACKUP
DISASTER RECOVERY
ONE SOLUTION

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DATA STORAGE | DATA BACKUP | DISASTER RECOVERY

IntegralStor is a unified data storage platform, supporting both block and file storage protocols, and a comprehensive set of data protection features integrating a wide range of business-critical storage and management functions into a single versatile appliance.

Whether as central storage for file sharing, data backup, off-site data replication for business continuity, backup repository for mission-critical VMs, shared storage for video editing or storage for video surveillance, IntegralStor is a fast, reliable, easy-to-manage and affordable storage system for a wide range of common business storage applications.

VIRTUAL DESKTOP STORAGE

STREAMING / RICH MEDIA STORAGE

AUDIO / VIDEO EDITING

DISASTER RECOVERY

DATA BACKUP & ARCHIVAL

FILE STORAGE & SHARING

VM REPOSITORY STORAGE

VIDEO SURVEILLANCE / NVR

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WORKGROUP & DEPT. FILESERVER

Reliable, easy-to-manage, feature-rich UNIFIED storage system for file or block storage (NFS, SMB/CIFS, iSCSI, FTP)

OFFICE DATA BACKUP

Integrated tools for centralised BACKUP of laptops & desktops; support for automated scheduled backup; backup of file/folders, partitions or entire disk image

VIDEO & AUDIO EDITING

High PERFORMANCE, reliable storage for Non-Linear-Editing applications at affordable prices that don't break the bank

NVR & CCTV STORAGE

Cost-effective, scalable & high-performance storage for CCTV, NVR & video analytics, supporting file (CIFS/SMB & NFS) & block (iSCSI) protocols

DISASTER RECOVERY & REPLICATION

In-built support for data REPLICATION; one-one or one-many; file system or file/folder level — ideal for branch to HO replication

MULTI-LEVEL DATA PROTECTION

RAID, atomic writes, data and metadata checksumming, snapshots, self-healing & bit-rot protection

HIGH PERFORMANCE

Support for SSD & RAM based read & write caching, as well as ALL-FLASH storage pools, provides flexibile workload appropriate sizing and deployment

VIRUS & RANSOMWARE RECOVERY

Automated SNAPSHOTS to recover from ransomware attack via roll-back to last good version

DATA OPTIMIZATION

In-built data FOOTPRINT savings with inline compression and deduplication

DATA ANALYTICS

Insight into DATA USAGE patterns: duplicate files, most frequently accessed files, sort by file extensions & size

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INTEGRALSTOR
HARDWARE SPECIFICATIONS

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Specification	IS-0802	IS-1202	IS-1802
Processor	Intel Xeon Scalable Processor Bronze 3104 or higher	Intel Xeon Scalable Processor Bronze 3104 or higher	Intel Xeon Scalable Processor Silver 4108 or higher
RAM	16GB – 256GB ECC Memory	32GB – 256GB ECC Memory	32GB – 256GB ECC Memory
OS redundancy	Single/Mirrored SSD boot devices	Mirrored SSD boot devices	Mirrored SSD boot devices
Drive Support	NL-SAS 3.5" x8 / 2.5" x16 drives	NL-SAS 3.5" x12 / 2.5" x24 drives	NL-SAS 3.5" x16 / 2.5" x32 drives
Raw Capacity	32TB to 96TB	48TB to 144TB	64TB to 192TB
RAID protection	RAID z1/z2/z3/Mirror	RAID z1/z2/z3/Mirror	RAID z1/z2/z3/Mirror
Throughput	300MBps to 600MBps (with 10GbE NIC)	500MBps to 1GBps (with 10GbE NIC)	500MBps to 1.5GBps (with 10GbE NIC)
Performance Acceleration (Optional)	All-Flash support or Read/Write acceleration via SSD / NVDIMM	All-Flash support or Read/Write acceleration via SSD / NVDIMM	All-Flash support or Read/Write acceleration via SSD / NVDIMM
Data Ports (Ethernet)	1GbE x4 Ports Optional 10GbE or additional 1GbE	1GbE x2 Ports Optional 10GbE or additional1GbE	1GbE x4 Ports Optional 10GbE or additional 1GbE
Management	10/100 Ethernet Management Port	10/100 Ethernet Management Port	10/100 Ethernet Management Port
Power Supply	(1+1) Redundant PSU	(1+1) Redundant PSU	(1+1) Redundant PSU
Chassis	Tower / 5RU	2RU	2RU
Warranty	3 Years	3 Years	3 Years
Dimensions	Width: 307.9mm, Depth: 573.mm, Height: 430.3	Width: 482mm, Depth: 707.74mm	Width: 482mm, Depth: 751.34mm
Weight	29.5Kg (fully populated)	29.65Kg (fully populated)	33.1Kg (fully populated)
Operating Temperature	10°C to 35°C	10°C to 35°C	10°C to 35°C
Workload Selection			
File Storage & Backup	Economical storage for small to medium fileserver & backup. Consolidate file storage and backups with this affordable storage system	Medium to large capacity storage system designed for high performance or for large central backup and archival.	High capacity storage system designed for high performance or for large central backup and archival.

*Technical specifications are subject to change without notice

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INTEGRALSTOR SOFTWARE

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OS & SYSTEM
Linux with OpenZFS
Mirrored boot drive support
Restore to installation defaults

DATA ACCESS PROTOCOLS
CIFS/SMB
NFS
iSCSI
FTP

DATA INTEGRITY & PROTECTION
RAID (upto triple-parity) & Mirror
Atomic writes
Data & metadata checksumming
Instant snapshots
Integrated backup

AUTHENTICATION & CONTROL
Active Directory (AD)
LDAP
Local users
User, file & folder quotas

DATA OPTIMIZATION
Inline Compression (LZ4)
Inline Deduplication (optional: requires enhanced RAM matched to storage capacity)

DISK MANAGEMENT
SMART disk monitoring
Bad block scan
Hot spares drives
Guided disk replacement through UI

NETWORKING
VLAN support
Jumbo Frames
NIC Teaming/Bonding
DHCP

ADMINISTRATION & MONITORING
Web GUI (HTTP/HTTPS)
Console & CLI access (option)
Email alerts
Log & Event collection
IPMI Monitoring
Single console monitoring of multiple systems

SUPPORTED CLIENTS
Microsoft Windows
Linux
Unix
AFP

DISASTER RECOVERY & REPLICATION
Filesystem Replication (via snapshots)
Files replication (via Rsync)
SSH secure replication
Scheduled replication
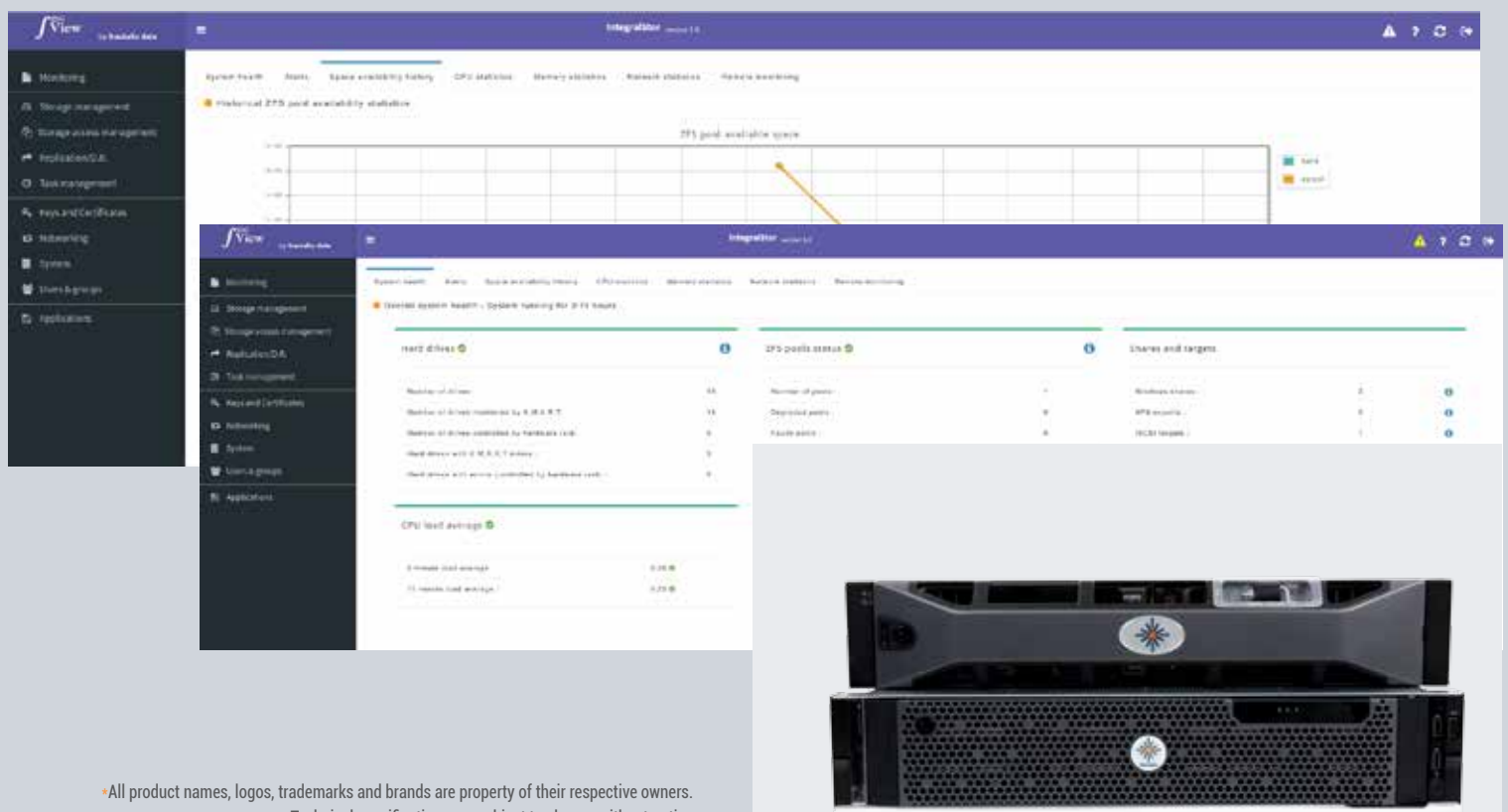
PERFORMANCE ACCELERATION
In-built read & write caching
NVDIMM / SSD write cache (optional)
SSD read cache (optional)
All Flash system (optional)

DATA ANALYTICS
Tracking usage history for prediction
Duplicate files listing
Last acccess by date range
Flie size sort
File extension listing
Housekeeping directly from browser

SUPPORTED BROWSERS
IE8, Firefox 3.x & later
Chrome 3.x & later