ObjectMatrix

MatrixStore

The media focused private and hybrid platform built on Digital Content Governance (DCG) and object storage technology.

MatrixStore is an integrated Digital Content Governance and object storage solution that is trusted by the world's largest broadcasters, banks, telecommunications and energy companies to ensure their digital information is always available and protected in a secure, scalable and audited platform.

The Integrated Private Cloud Storage Platform

MatrixStore is an object based storage software platform that has been implemented by the world's largest media companies to keep their digital information available at all times in a highly protected nearline or archive workflows. MatrixStore provides a secure, scalable and searchable repository for all your digital assets. MatrixStore is more than just a file system, it provides a proven digital content governance that supports both internal and external business rules and puts your content where you need it, when you need it.

Such is the flexibility and reliability of MatrixStore it can be used across multiple workflows and departments within those organisations.

Since 2006 MatrixStore has been protecting digital content for national broadcasters, post facilities, production, VFX and utility companies, banks, content delivery networks, VOD providers, content creators and global content distributors.

"It has worked as expected, fast, resilient and able to handle anything we throw at it."
David Mortlock, Head of Media Operations

Contact Object Matrix Without Delay

Contact us to find out how Object Matrix can help you and your organisation to resolve your storage challenges:

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MatrixStore Benefits

✔ AI-Ready enabling automated workflows

✔ Built in disaster recovery and business continuity

✔ Brings financial savings and reduced operational overhead

✔ Consolidates silos of storage

✔ Future proof platform that supports multiple media workflows

✔ Enables the all archive assets to be monetised

✔ Reduces management overheads and processes

✔ Enables global collaboration with internal and external teams

MatrixStore Specification

■ Non-proprietary rack mounted storage servers coupled with trusted MatrixStore object storage

■ Built-in metadata support from automated extraction to simple search

■ Disaster Recovery and Business Continuity built-in using direct replication

■ Scalable performance (40GbE, 10GbE or 1GbE connected nodes)

■ Open API for integration with third party applications

■ Integrates with Avid, Grass Valley, Vidispine, Glookast, Signiant, Aspera, EditShare, Cantemo & many others

■ Future proof. Migrates data to new technology platforms seamlessly

■ HSM functionality pushing content to LTO, Optical media or cloud archive

■ Access via SMB, NFS, FTP, S3, Local Drive Mount, DropSpot and Vision Browser Application

"MatrixStore manages itself, we just manage the data on and off the system."
Rhodri James Technical Director, Gorilla

Where is MatrixStore Used?

Since 2006 MatrixStore has been protecting digital content for national broadcasters, post-production facilities, production companies, banks, visual effects companies, utility companies, content delivery networks, video on-demand providers, content creators and global content distributors. Within those organisations it is used simultaneously for multiple workflows and across many departments, such is the flexibility and reliability of the solution. Please ask your local Object Matrix representative for our customers and workflows documents to learn how the world's largest organisations benefit from implementing a MatrixStore media focused private and hybrid cloud platform.

Accessing MatrixStore

It is possible to access content in MatrixStore using a wide variety of applications via the FTP, SMB, NFS or MatrixStore API Interfaces. We also provide the following applications that provide MAM, file system, web browser, Avid Media Central, FTP and S3 access to name a few:

DropSpot   FTPConnect   Vision   InterConnect   MXFS   S3Connect

Product Specification

Product	MatrixStore Enterprise	MatrixStore Quattro
Capacity	60TB to Many Petabytes	48TB to 256TB
Node Capacity (Terabytes)	24, 48, 96, 144, 216 or 360TB	16TB (2x 8TB data drives)
Number of Drives per Node	12, 24, 36 (plus redundant system SSDs)	3 (1 system drive, 2 data drives)
Minimum Configuration	From 3 MatrixStore Nodes	1 MXS Quattro (4 or 3 Nodes & Hub)
Number of Copies	Single, Dual (local and remote)	Single, Dual (local and remote)
RAID Protection	RAID6	None
Node Power	Dual (12 bay 800W, 24 bay 920W, 36 bay 1280W)	Dual (redundant, 920W)
Node Connectivity	Dual 10GbE/40GbE	1GbE/10GbE
Number of Ports Required on Client Network (Per Node)	2	2
Supported Network Connectivity	RJ45, SFP+ (Copper & Fibre)	RJ45
Dimensions (12, 36, 48 terabytes nodes)	2u (d: 67.5cm, w: 48.26cm, h: 9cm)	2u (d: 74cm, w: 48.26cm, h: 9cm)
Dimensions (96, 144, 216, 360 terabytes nodes)	4u (d: 67.5cm, w: 48.26cm, h: 18cm)	4u (5°C - 35°C, 41°F - 95°F, 8% - 90% non-condensing)
Operational Temperature and Humidity	2u (10°C - 35°C, 50°F - 95°F, 8% - 90% non-condensing)	
	4u (5°C - 35°C, 41°F - 95°F, 8% - 90% non-condensing)	

Node Size (Raw)	Power Consumption (Reboot)	Power Consumption (Idle)	Power Consumption (Load)	Thermal Rating (Typical)	Thermal Rating (Maximum)
24TB	232 Watt	215 Watt	237 Watt	809 BTU/hr	1023 BTU/hr
48TB	286 Watt	242 Watt	284 Watt	969 BTU/hr	1242 BTU/hr
96TB	545 Watt	260 Watt	294 Watt	1003 BTU/hr	2200 BTU/hr
144TB	550 Watt	280 Watt	304 Watt	1063 BTU/hr	1740 BTU/hr
216TB	560 Watt	300 Watt	320 Watt	1100 BTU/hr	1800 BTU/hr
360TB	560 Watt	300 Watt	320 Watt	1100 BTU/hr	1800 BTU/hr

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To learn more about MatrixStore, please visit
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