



———◦ High Performance Media Storage ◦———

Highly competitive, huge performance and capacity
www.gblabs.com



So, Who Is GB Labs?

GB Labs is the global leader in intelligent and scalable shared storage to power and protect your creative workflows.

About Us

GB Labs is renowned for its safe, secure, reliable and remarkably fast and flexible storage solutions that cater to a wide spectrum of tasks, from ingesting and editing 4K/8K video, and data to post-production and even long term-archiving!



As a result of two decades of shared storage technology development, GB Labs is trusted and known for creating intelligent media storage solutions.

Irrespective of a production's geographic location or size of team, GB Labs offers optimized solutions that can enhance and empower your creative workflows.

A Fresh Approach to Shared Storage

GB Labs was established to overcome the common challenges found in other shared storage solutions. Some of these include considerable hardware investment, complex infrastructure requirements, unpredictable media performance and ongoing, time-consuming administration and scalability.

So, we formed a fresh approach to shared storage, removing all these challenges.

Our systems are designed to intelligently adapt to provide maximum performance and include powerful and intuitive toolsets, making them flexible and easy to use.

Our innovative technology, Unify Hub, is leading the way by transforming central storage from a localised structure into something easily accessible worldwide. This technology enables effortless remote working and collaboration capabilities, paving the way for a seamless workflow experience.

Why FastNAS?

FastNAS has been designed from the ground up specifically for media professionals.

Traditional IT solutions are unable to cope with large file sizes and the demanding performance requirements for media.

Its all in one approach not only delivers high performance, it includes many media-centric tools that are powerful and easy to use. FastNAS combines NVME and spinning disk technology to deliver incredible performance at an attractive price point.

FastNAS has always led on performance. The latest generation is no exception and puts us far ahead of the competition whilst retaining the same great price points and unique plug-and-play ability. **You can take our product out of the box and be managing content within 15 minutes with no specialist engineering assistance.**

Being available in either rackmount or desktop format, FastNAS takes our ease of use even further for high-performing storage in any location.

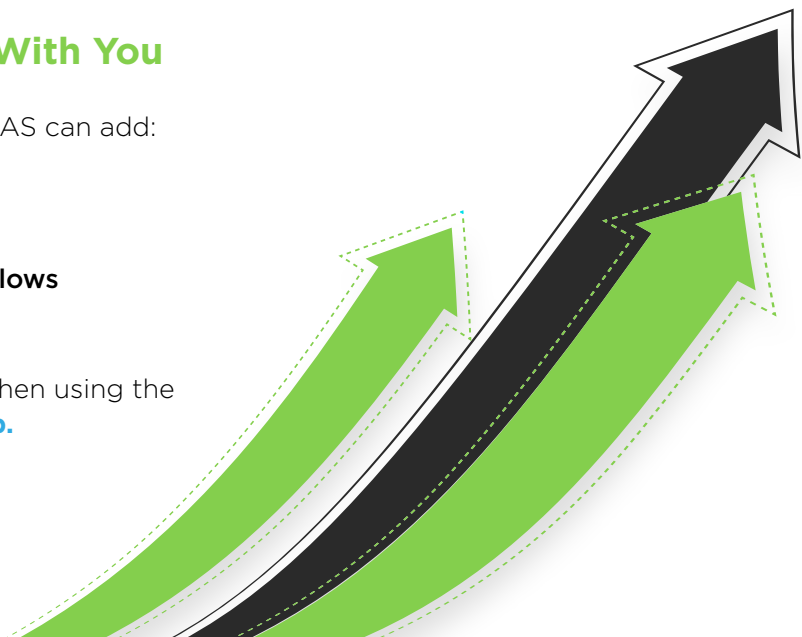
How FastNAS Grows With You

As your workflow scales, FastNAS can add:

- **More connectivity**
- **Greater capacity**
- **Integration into cloud workflows**

In addition, it can also provide:

- + Seamless remote working when using the optional software, **Unify Hub**.

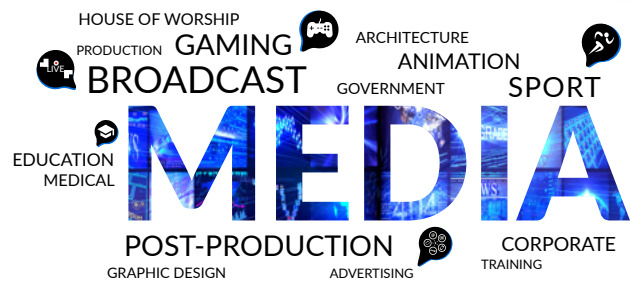


Who Can Benefit From FastNAS?

It's simple...anyone working with media!

Industries We've Worked With

We have provided FastNAS solutions to many different industries, drastically improving their workflows.

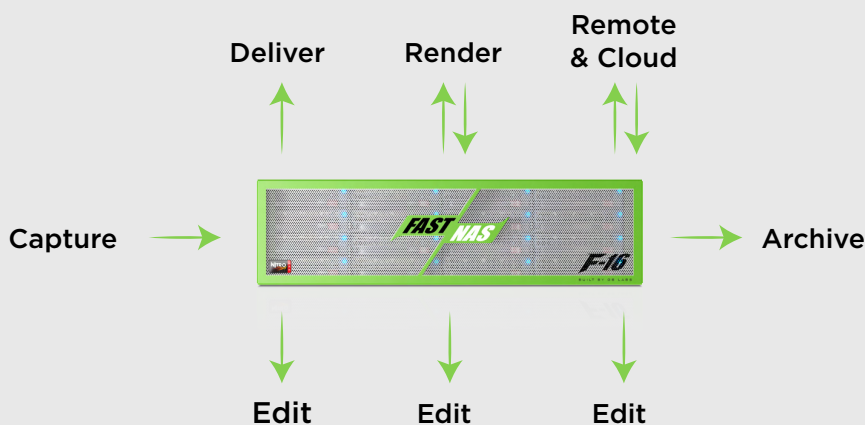


Media workflows today are becoming ever more complex.

Storage systems have to support not just ingest and editing, but rendering, archiving, cloud access and increasingly, collaborative remote and home working.

All of these factors combined put a lot of strain on shared storage, which is now expected to support large numbers of concurrent processes, which in turn places an exponential load on available bandwidth.

FastNAS overcomes these challenges by saving time and maximising working capabilities to perfectly streamline any media workflow.



Supporting simultaneous tasks including:

- Editing
- Backup
- Archive
- Cloud workflows
- Home working

All at the same time.

FastNAS, Behind The Scenes

Years of work, analysis, development and success.

GB Labs have spent years scrutinising and analysing storage data movements in media workflows to truly understand where the pain points exist.

By understanding data throughput, we're able to develop intelligent and highly efficient technologies that accelerate media workflows.

Giving You The Best User Experience

Some of our unique FastNAS technologies include:



Nitro Hybrid Boost

Nitro is our intelligent hybrid disk technology, developed by the team that brought you the award winning HyperSPACE, solid state accelerator.

Unlike general-purpose systems, Nitro is specifically designed for real world usage and brings dramatic performance enhancement to collaborative media workflows, offering close to pure SSD performance for media professionals.



Velocity Raid Engine (VRE)

Our VRE is optimised for media usage and low latency, a fundamental part of the FastNAS experience. This technology is unique to GB Labs and offers lightning performance, using minimal system resources whilst delivering a high level of resilience.



Dynamic Expansion

Nobody likes downtime, especially when it involves copying large amounts of data on and off your storage, just to facilitate capacity expansion.

The FastNAS F-16 and F-16 Nitro offer dynamic expansion which, when combined with a FastNAS F-16 expansion unit, allows you to grow your storage instantly with your data still in place.

CORE OS Lite

The ultimate workflow tool



Purpose Built Storage OS

The most important part of any server is the operating system. Our CORE.5 OS Lite is purpose-built for our product range by our in-house R&D team, meaning the extended opportunities of the software working perfectly to suit your workflow are endless.

With hundreds of workflow tools available, they make our systems easy to use, highly efficient and always deliver on performance.

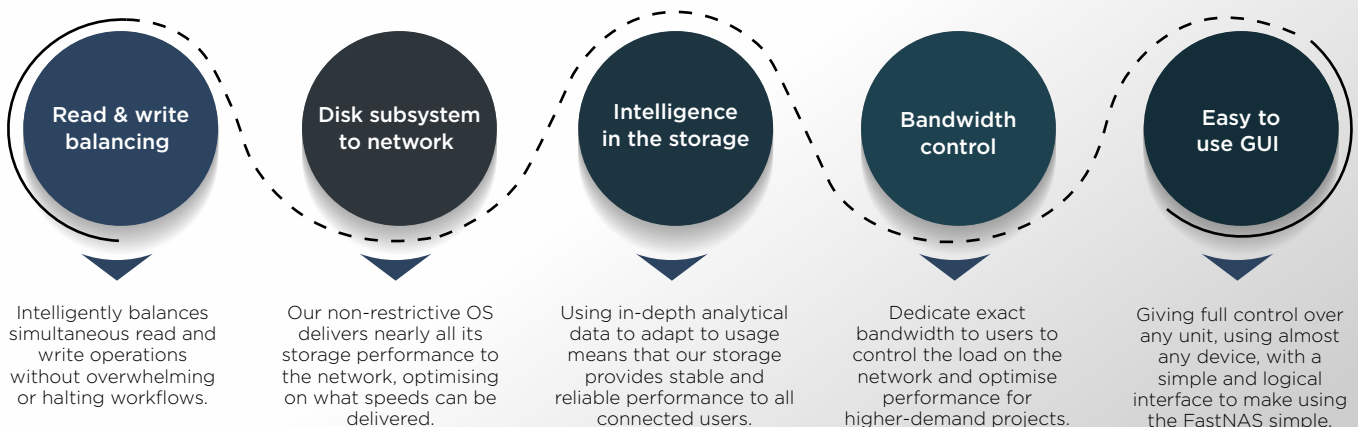
Designed Specifically For Demanding Media Workflows

By developing both our operating system and products in-house, we ensure that both are optimised to work together as efficiently as possible.

By utilising their combined intelligence, we can promise strong delivery on speed and performance for all media workflows, something that can't be done with generic operating systems.

Ensuring Performance

CORE.5 OS Lite sits at the heart of all our FastNAS systems, directing and ensuring top quality performance for all workflows.



CORE OS Lite

Easy to use, simple to install
and powerful to own



Our CORE.5 OS Lite enables our solutions to outperform all others in its category for media workflows. The great thing is that our operating system and user interface allow you to simply plug in, and in a matter of minutes, you'll be up and running.

When using our OS, you will soon realise how powerful the tools are and how they are specifically built to manage and look after your media.

Some of the main benefits to using our OS...



Security & Compliance

Full control over your data



Notifications & System Monitoring

Complete visibility of your system

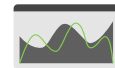


Compatibility

Mac, Linux, Windows
compatible



C O R E . 5
L I T E



Data Management

View, replicate, manage
and protect your data



Mosaic

Asset organisation



Cloud and Unify Hub

Simple and powerful
integrations

CORE OS Lite

Industry leading storage OS for media

Security & Compliance

Notifications & System Monitoring



Security & Compliance

Gain easy access to your data, but also ensure people get the right access. Our CORE OS allows users to give the right permissions to the right people and feel full control.

Your data is private to you and/or your business, so why not ensure its security is watertight?

- **HTTPS access**
Manage the server using secure HTTP to prevent eavesdropping
- **Customisable password policies**
Require users to set passwords to specific lengths - AD & LDAP compatible
- **Hardened Linux kernel**
Custom compiled direct for our hardware
- **Port blocking**
Restrict access to services on specific interfaces to prevent unauthorised access

Notifications & System Monitoring

Run without error with proactive notifications sent straight to your inbox. Always be kept informed and have control of your system from anywhere in the world.

- **Keep track of your systems**
Systems can be integrated into an SNMP managed environment
- **System alerts direct to your inbox**
Looking for system events and sending notifications via SMTP to a user's email
- **Lights out management**
IPMI - allowing users to monitor and manage systems remotely

CORE OS Lite

Industry leading storage OS for media

Compatibility & Data Management



Compatibility

Our CORE OS Lite is fully Mac, Linux and Windows compatible. Most of our users do not require any client software. Our OS also supports all popular network protocols allowing safe, reliable and simple exchange of data.

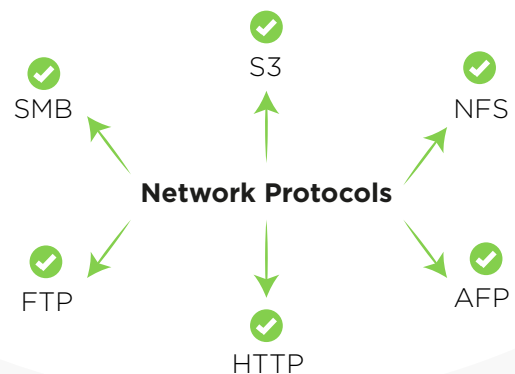


A GB Labs technology that maximises the performance of standard network protocols.

Bandwidth Control

Set bandwidth rules to enable higher priority users to get the performance they require.

Supporting all the popular network protocols



Data Management

Have complete control over your assets

► Replication

Create your replication tasks, allowing you to transfer data between different network and cloud locations

► Recycle Bin

View and manage the recycle bin for workspaces which have them enabled

► File Manager

Browse and manage the files that are stored on the system, including transferring between CORE OS systems and cloud locations.

CORE OS Lite

Industry leading storage OS for media

Mosaic



Asset Organisation



Asset Organisation

Automatic media asset organiser to help track and find your assets

All new FastNAS storage systems now include our Mosaic asset organiser, a dynamic, intelligent and vastly enriched way to track and find media assets that saves users enormous amounts of time.

Mosaic is streets ahead of old and inefficient search methods. It automatically scours all in-built metadata and integrates it with a highly professional AI tagging system.

**In short, users no longer need to tag anything.
Mosaic takes care of that.**

Stay on track...

- A dynamic and vastly enriched way to track and find media assets
- Eliminates old and inefficient search methods
- Very visual - previews are created on ingest
- User specific views, live collections and Google Object recognition



CORE OS Lite

Industry leading storage OS for media

Cloud & Network Locations & Integrations



Cloud & Network Locations

Options to suit your preferences

The in-built GB Labs OS supports the most popular cloud providers natively, allowing users to transfer files to and from the storage using built in tools in the OS such as Replication and File Manager.

CORE OS supports connections to other file sharing protocols including: FTP, SFTP, SMB and NFS.



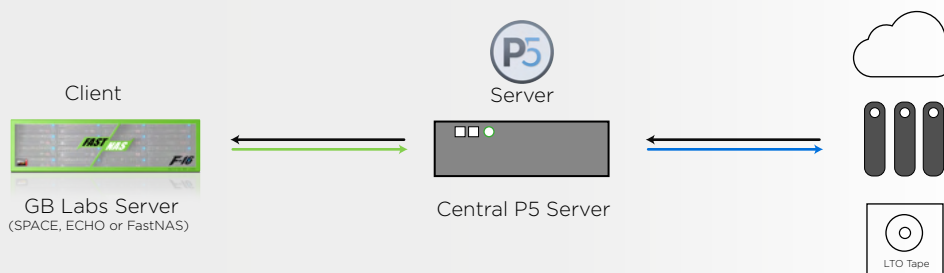
Integrations

Keeping production protected

The integration between Archiware P5 and GB Labs storage platforms now provide the flexibility to choose from different storage devices for backup and archive such as disk, LTO tape and cloud storage.



The Archiware P5 platform within the latest CORE OS provides an efficient way to protect production and business continuity, offering enormous flexibility in configuration, set up, storage and policies.



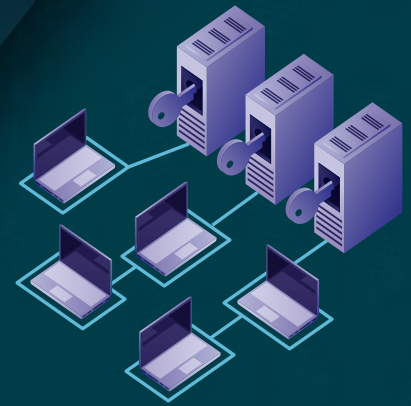
*Software updates may be required

CORE OS Lite

Industry leading storage OS for media

Additional Options...

Redefining what's possible from your NAS storage



Collaboration

Collaboration

Enhancing the capabilities of central storage for global utilization

Unify Hub enables our file system to be used across the world in a seamless and fast way for virtually all media workflows.

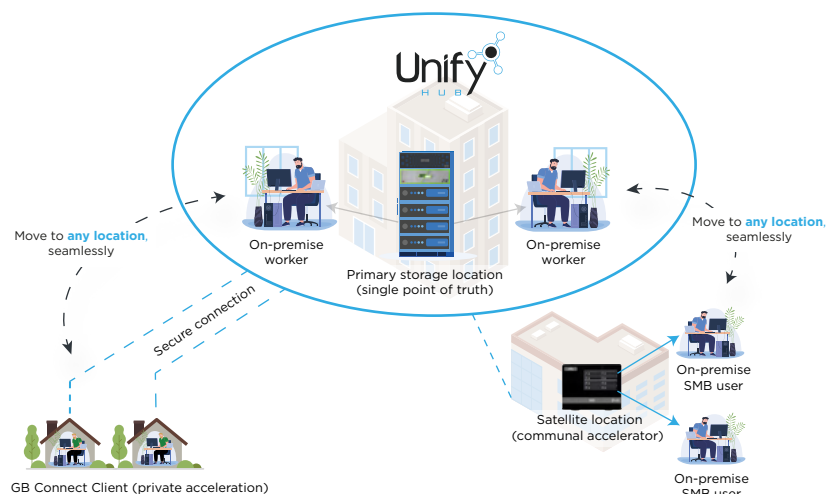
This flexible technology can leverage either GB Labs on-premise storage servers or the GB Labs cloud storage solution, Nebula. Together, they can create fast and incredibly secure elastic storage.

Media users can connect in to the 'single point of truth' file system from on-premise, home, remote offices or from any other location using our Unify Hub Connect application.

Simply giving all users the feeling and benefits of on-premise shared storage from any location.

Furthermore, the file path for all users is identical and all acceleration and caching is done within the file system which allows virtually all workflows to simply work as they did on the on-premise storage, making the transition from in office to worldwide incredibly simple.

- **OnePath**
Identical file path, everylocation
- **HyperAcceleration**
Self-managing block level acceleration
- **Centralised Access Management**
Auditing, single sign-on, user management and security for on-premise and remote users



Support & Warranty

Always there when you need us



Support

True global support

When you purchase a GB Labs product, you're making an investment in your business.

We understand the significant impact technical issues can have on your creativity, productivity, and deadlines. That's why we've created a range of support packages to choose from to give you peace of mind that when faced with a technical issue, you are fully supported.

A range of support packages available to suit your needs

Our support packages provide:

- Access to a GB Labs technical expert
- Prioritised escalation process and ticket handling with industry-leading service levels
- Peace of mind
- Comprehensive advanced replacement warranty
- Access to latest software updates including new features and tool sets



Our comprehensive support offers seamless, hassle-free usage of your products. Make sure you speak with a GB Labs representative to discover how we can assist you!

Feel confident with GB Labs, we're here to support you!



FastNAS F-16 NitroMAX



Best in class, max performance hybrid rackmount with expandability

4K/8K Online



Summary

Bringing twice the capacity and twice the performance to the Nitro layer along with 50GbE as standard, the FastNAS F-16 NitroMAX is capable of up to 4GB/s read performance from its combined NVME and HDD technologies.

However, it really wins in the real world with its ability to deliver around 4GB/s of read performance from its NVME accelerator whilst simultaneously allowing the spinning disks to accept over 2GB/s of write performance.

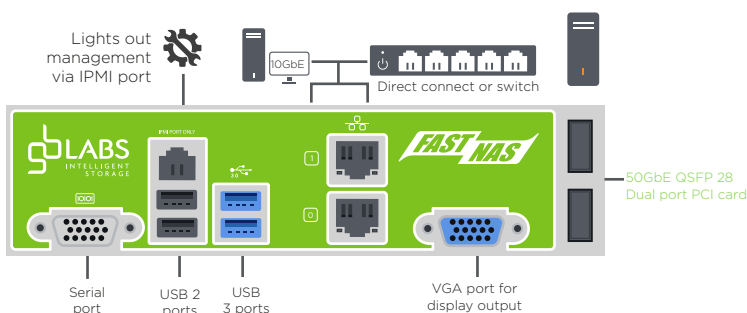


Key Features

- Dynamic Expansion
- Up to 4GB/s speed
- 4TB of NitroMAX technology
- VRE (Velocity Raid Engine)
- 2 x 10Gb ethernet (RJ45)
- 2 x 10/25/50 GbE ports
- 16 x enterprise disks - built for 24/7 use
- CORE.5 OS Lite - right out the box



Connectivity



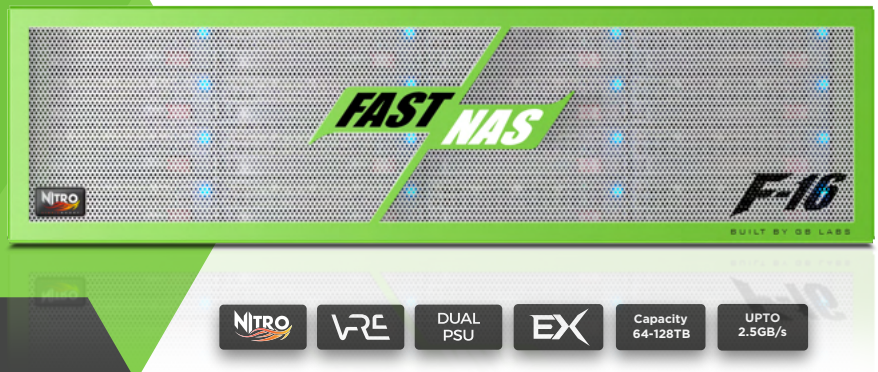
Available Capacities

160TB	192TB	224TB	256TB
288TB	320TB	352TB	384TB

Add **even more storage** with expandability options!



FastNAS F-16 Nitro



Full performance hybrid rackmount with expandability

4K/8K Online

Summary

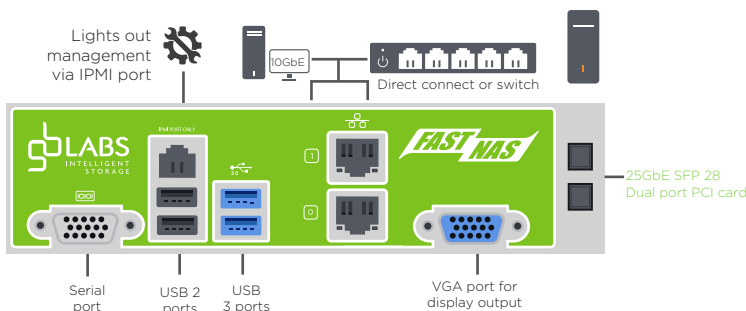
The powerful F-16 Nitro stands head and shoulders above the competition, delivering performance beyond its configuration, thanks to the revolutionary 1TB Nitro Hybrid Boost technology and our unique VRE.

The combined performance of the F-16 Nitro is up to 2.5GB/s and stream performance is way beyond anything in its class.

Key Features

- Dynamic Expansion
- Up to 2.5GB/s speed
- 2TB of Nitro technology
- VRE (Velocity Raid Engine)
- 2 x 10/25 GbE ports
- 2 x 10Gb ethernet (RJ45)
- 16 x enterprise disks - built for 24/7 use
- CORE.5 OS Lite - right out the box

Connectivity



Available Capacities

64TB 96TB 128TB

Add **even more storage** with expandability options!



FastNAS F-16



High performance rackmount
with expandability

4K/8K Online

Summary

The F-16 delivers huge performance and capacity at a fraction of the cost of other systems. Today's accelerated production schedules demand that teams work collaboratively.

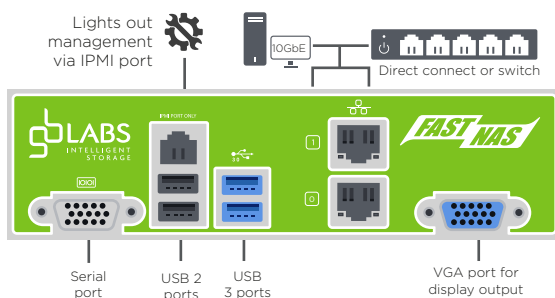
This means using the latest technology to share work on projects, improve workflows and get more work done in less time.

Our FastNAS F-16 can help your business do all this and more.

Key Features

- Dynamic Expansion
- Up to 2GB/s speed
- VRE (Velocity Raid Engine)
- 2 x 10Gb ethernet (RJ45)
- 16 x enterprise disks - built for 24/7 use
- CORE.5 OS Lite - right out the box

Connectivity



Available Capacities



Add **even more storage**
with expandability options!



FastNAS F-8 Nitro



Big performance,
compact hybrid

4K/8K Online



Summary

The compact and powerful F-8 beats the competition by delivering performance way beyond its 8 disk configuration.

With 1TB of Nitro Hybrid Boost and unique VRE, the combined performance of the F-8 is up to 1.5GB/s and stream performance is beyond anything in it's class.

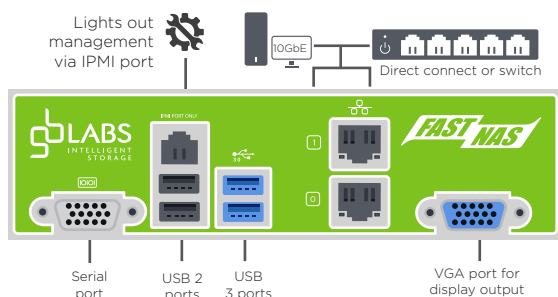


Key Features

- Up to 1.5GB/s speed
- Nitro technology
- VRE (Velocity Raid Engine)
- 2 x 10Gb ethernet (RJ45) plus
- 8 x enterprise disks - built for 24/7 use
- CORE.5 OS Lite - right out the box



Connectivity



Available Capacities

32TB	64TB	96TB
128TB	160TB	192TB



FastNAS F-8 Nitro Studio



Big performance, ultra quiet desktop hybrid

4K/8K Online



Summary

The F-8 Nitro Studio has been specifically designed for use by creative professionals and teams who need the power to fuel their creative media, broadcast and film projects.

This desktop hybrid system can be placed on a desk or around a work area giving you ease and flexibility. Plug right into the on-board 1Gb ethernet ports or add optional 25/50Gb ethernet connectivity.

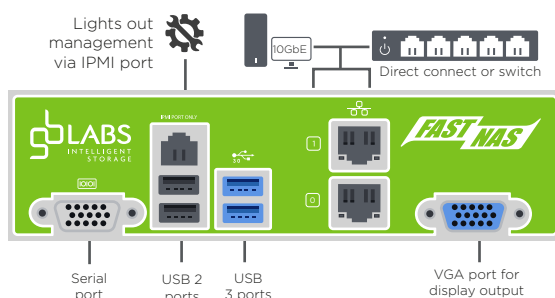


Key Features

- Up to 1.5GB/s speed
- Nitro technology
- VRE (Velocity Raid Engine)
- 2 x 10Gb ethernet (RJ45)
- 8 x enterprise disks - built for 24/7 use
- CORE.5 OS Lite - right out the box



Connectivity



Available Capacities

32TB	64TB	96TB	128TB
160TB	192TB		



FastNAS F-16 Expansion



Plug and play expansion that works in seconds

4K/8K Online

Build your FastNAS capacities with dynamic expansion!

Summary

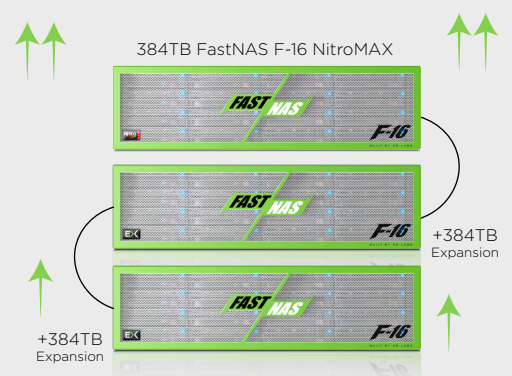
Demanding media workflows and ever increasing resolutions can create situations where you need to expand your storage quickly. Older technologies, as well as other NAS solutions, often require you to create separate volumes or backup and format data in order to expand.

The F-16 expansion allows you to expand your storage in seconds as a single volume that keeps all your workflows intact.

You can have the freedom to choose your expansion path with mix and match capacity.

Single or multi-volume options allow you to create your perfect workflow.

Combining two of our largest expansion units to a 384TB F-16 NitroMAX unit could allow you to expand your storage up to a total of 1.1PB in seconds!



Key Features

- Dynamic expansion
- Dual redundant 500W PSUs
- 16 x enterprise disks - built for 24/7 use
- Add up to 2 EX units

Available Capacities

32TB	64TB	96TB	128TB	160TB
192TB	224TB	256TB	288TB	
320TB	352TB	384TB		

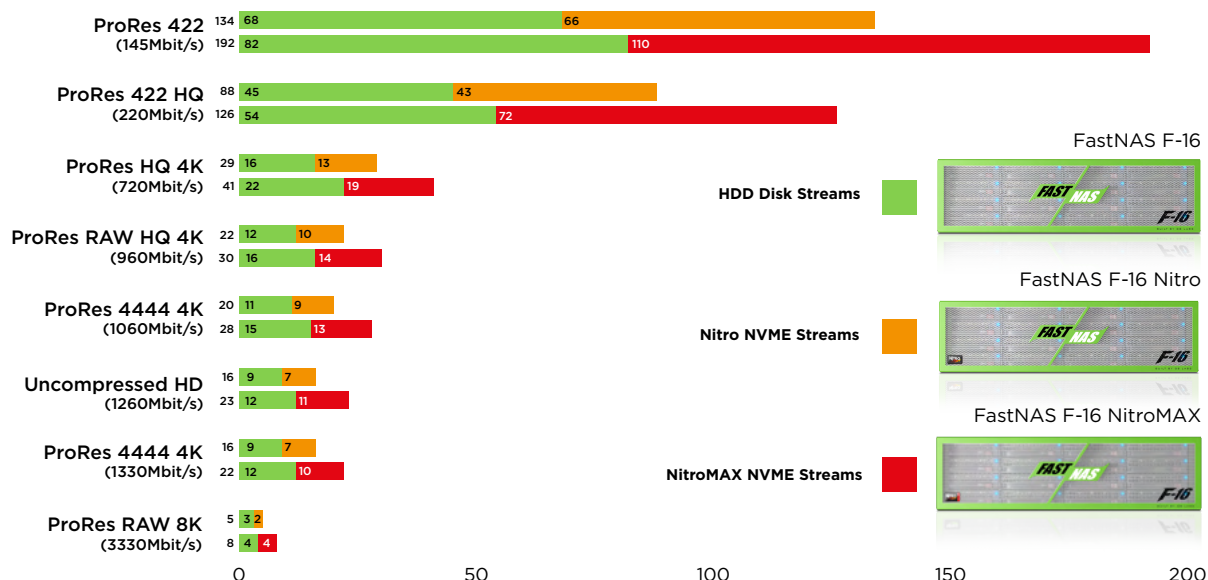


Ultimate Performance

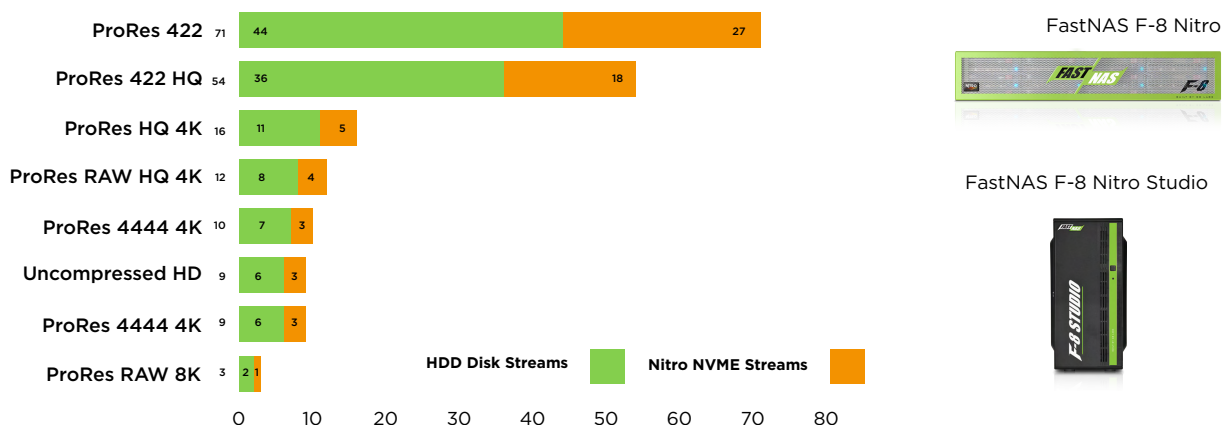
Delivering huge **performance** and **capacity** at an amazing price point



The Power of Nitro



Nitro accelerates at the block-level based on file access. This intelligent technology encourages the system to prioritise active data and only boosts what is required by the user. This reduces the need for larger acceleration pools, while still delivering the speeds required for the most demanding of workflows.



Comparison

Which FastNAS do I need?

Picking the right option for you

	FastNAS F-16 NitroMAX	FastNAS F-16 Nitro	FastNAS F-16	FastNAS F-8 Nitro	FastNAS F-8 Nitro Studio
Overview	Best in class, max performance hybrid rackmount with expandability	Full performance hybrid rackmount with expandability	Full performance rackmount with expandability	Big performance, compact hybrid	Big performance, ultra-quiet desktop hybrid
Max capacity per unit	384TB	128TB	384TB	192TB	192TB
Disk RAID level	RAID 6	RAID 6	RAID 6	RAID 5	RAID 5
Network read	4GB/s	2.5GB/s	2GB/s	1.5GB/s	1.5GB/s
Nitro performance	5.5GB/s	3.5GB/s	N/A	1.75GB/s	1.75GB/s
Standard Network Ports	2 x 10GbE (RJ45) 2 x 50GbE (QSFP)	2 x 10GbE (RJ45) 2 x 25GbE (QSFP)	2 x 10GbE (RJ45)	2 x 10GbE (RJ45)	2 x 10GbE (RJ45)
10/25/40/50GbE ports	2	2 (10/25 only)	Optional	Optional	Optional
Additional ethernet cards supported	2	2	1	1	1
Support 4K/8K editing	Yes	Yes	Yes	Yes	Yes
Comprehensive support options	Yes	Yes	Yes	Yes	Yes
Nitro acceleration built-in	Yes	Yes	No	Yes	Yes
Rack-mountable	Yes	Yes	Yes	Yes	No
Dual power supply	Yes	Yes	Yes	Optional	No
Mirrored OS	Optional	Optional	Optional	Optional	Optional
Portable with optional pelican case	No	No	No	No	Yes
Plug and play storage expansion	Up to 1:1PB	Up to 1:1PB	Up to 960TB	N/A	N/A

1* - Peak performance

Specifications subject to change



What's your story?

Could FastNAS be the right fit for your company?

— Contact Us —

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