Enterprise Scale-Out NVMe Shared Storage for Media Teams

The New Ultimate EFS NVMe 8-Drive 2U Node is an ultra-fast, cost-effective all-NVMe shared storage solution engineered to deliver unparalleled performance for post-production, VFX, and broadcast environments.

This unit makes it as easy as possible to take advantage of the extreme bandwidth and power of true NVMe at smaller usable capacities and lower entry cost, while still offering blazing fast performance via EditShare's tried and true filesystem + hardware RAID 5 controller. By optimizing the density of NVMe drives per node, these 8 drive EFS NVMe models actually deliver more read performance per NVMe drive than higher density models (14GB/s aggregate read-only throughput). This new node also makes it more feasible and affordable to build an XOR failure-protected finishing storage group with 3 or more nodes, delivering an incredible 40GB/s aggregate read performance from an XOR-protected group of 3 nodes without breaking the bank.

Whether configured as a standalone 122TB unit or integrated into a multi-petabyte cluster, the EFS NVMe 2U Node maintains a unified namespace. This simplifies administration by eliminating the need for workload balancing or managing disparate user permissions. Powered by the EFS Native Client, a high-efficiency, multi-threaded driver with minimal overhead and latency, the system ensures exceptional speeds for Windows, macOS, and Linux workstations. Equipped with a standard dual port 100GbE Ethernet network card, it supports blazing-fast connectivity options from 10GbE up to dual port100GbE.

In clustered setups, the EFS Native Client optimizes data flow by enabling direct workstation-to-node transactions, avoiding bottlenecks common in traditional NAS gateways. With support for XOR parity and configurable protection goals, a muti-node system can withstand node failures while maintaining uptime. EditShare SwiftRead further enhances reliability by redirecting data requests to available nodes during congestion or outages.

A Complete Media Production Powerhouse

What sets the EFS NVMe 2U Node apart is its comprehensive ecosystem of tools tailored for media professionals. Beyond its raw speed and scalability, it includes integrated applications to streamline every stage of video production.

The system bundles FLOW Asset Management for easy file ingest, metadata logging, cataloging, search, and proxy-based editing. It integrates seamlessly with NLEs via panels for DaVinci Resolve and Adobe Premiere Pro, accelerating collaborative workflows.

FLOW Automation adds intelligent orchestration to automate repetitive tasks, boosting team productivity in large-scale operations.

ARK Media Archive is included for secure, automated backups to optional LTO tape libraries, with always-online proxies for quick restores of full datasets or individual clips directly to production storage.

EFS Control provides administrators with a unified interface for users, permissions, quotas, projects, and usage reporting. EditShare Connect client software mounts EFS spaces as network volumes, enforcing access controls, quotas, and project/bin locking for secure collaboration.

Built-in EditShare/ZeroTierVPN integration and EFS Swift Link features transform your on-premise setup into a private cloud for remote access, with latency-aware optimization for mounting media and using FLOW tools from anywhere.

EditShare Swift Sync facilitates secure, high-speed media and project synchronization across EditShare storage sites, perfect for on-set capture with EditShare Field Units and seamless dailies transfer to headquarters.

EditShare Guardian delivers real-time analytics for EFS and FLOW, with customizable dashboards, advanced searches, and integration with SIEM tools like SolarWinds or Splunk for proactive monitoring.

EFS Auditing enhances security by logging all file interactions in real-time, helping admins detect anomalies or threats in an era of rising cyber risks.

Eco-Friendly Efficiency for Modern Teams

With its compact 2U form factor and high-efficiency design, the EFS NVMe Node boasts excellent green credentials. Multiple editors and creators can collaborate simultaneously on a single node, reducing power consumption and hardware footprint compared to traditional setups, ideal for sustainable, energy-conscious facilities.

Scale up to 8 nodes in a single storage goal for expanded performance, with optional Metadata Controllers (MDCs) for high-availability and fault tolerance. As you grow, bandwidth scales linearly, supporting more demanding 8K+ file per frame workflows.

EFS NVMe 2U Node Front

ELECTRICAL	
Input Voltage	100 - 240 VAC
Input Frequency	50/60 Hz

DIMENSIONS	
Width/Height/Depth	430 x 88 x 680 mm
Width/Height/Depth	17 x 3.5 x 26.8 in

ENVIRONMENTAL	
Operating Temperature	0°C (32°F) - 50°C (122°F)
Operating Humidity	5% - 95%, non-condensing
Storage Temperature	-20°C (-4°F) - 60°C (140°F)
Storage Humidity	5% - 95%, non-condensing

HARDWARE SPECIFICATIONS

- 2U chassis with tool-less slide rails
- Motherboard with high-performance 5th gen Xeon 12-core CPU (Emerald Rapids)
- 128 GB DDR5 ECC high-speed RAM
- Mirrored (hardware RAID 1) 480GB SSD OS drives, hot-swappable
- NVMe hardware RAID controller with RAID 5 and write cache protection
- 8 enterprise-grade U.2/U.3 NVMe SSDs in configurations from 30TB up to 122TB raw
- Hot-swappable power supplies, fans, and drives
- Standard dual-port 100GbE QSFP28/56 ethernet + dual port 1G-BaseT ethernet
- IPMI management port RJ45

MODELS AND OPTIONS

MODEL	RAW/CAPACITY (TB/TiB)	USEABLE CAPACITY COPY 1 (TB/TiB)
Ultimate EFS NVME 30	30/27	26/24
Ultimate EFS NVME 60	61/55	53/48
Ultimate EFS NVME 120	122/111	107/97

Optional networking: Dual/quad port 10GbE RJ45, Dual/quad port 10/25GbE SFP+/SFP28

SOFTWARE SPECIFICATION

- EditShare OS 64-bit Operating System
- EFS Native Client driver for Windows, macOS, and Linux
- Supports Native EFS or SMB, and other protocols
- Integrated support for Avid/Blackmagic project sharing, Adobe/Blackmagic panels
- Includes FLOW Asset Management, with 10-pack Automation engine