

EFS40PLUS

Cost-optimized, media-engineered storage



EFS: The World's Best Shared Storage

For over a decade, EditShare has delivered high performance, scalable shared storage solutions that enable media professionals to create outstanding content. EditShare media storage solutions have increased productivity at over 3,500 media enterprises around the globe.

The EFS range from EditShare is an enterprise grade storage system that's optimized from the ground up for working with media files. It's fast, completely scalable, and resilient to hardware failures. EditShare does the hard work under the hood so that creative people can get on with their job, without worrying about data safety, formats, or even technical quality control.

Introducing the EFS 40PLUS

The EFS 40PLUS is a scale-out shared storage node that delivers the benefits of the EditShare file system while providing exceptionally high storage density in a single chassis. Because the EFS 40PLUS is optimized for storage capacity, large EFS storage clusters are possible with a lower number of nodes. The result is a lower cost per terabyte, yet the EFS 40PLUS still has all the robustness and reliability of EFS.

An EFS system always presents a single storage namespace to manage, whether the system contains one EFS 40PLUS storage node or any combination of available storage node models. Systems with multiple performance tiers up to many petabytes are easily managed: Administrative tasks like balancing user workloads between workspaces or building independent sets of user accounts or permissions are unnecessary.

The EFS 40PLUS employs the EFS client, an advanced, multi-threaded filesystem driver whose

low overhead and latency provide Windows, Mac OS, and Linux workstations with exceptional performance. The EFS client can take advantage of bonded network interfaces, which can extend the usefulness of 1 gigabit and 10 gigabit ethernet networks by allowing throughput in excess of a single network interface. Additionally, this allows using fault-tolerant networking features like multi-chassis link aggregation (MLAG) to eliminate single points of failure in the network.

In systems with multiple EFS 40PLUS storage nodes, the EFS client provides further performance benefits by enabling parallel transactions between workstations and storage nodes to avoid the typical "hot spots" associated with other, simpler NAS systems. Also, when an EFS system contains two or more EFS storage nodes, various data replication strategies using parity protection or duplication are possible, which allows the system to tolerate the failure of one or more storage nodes. Finally, the EFS client features SwiftRead, which allows it to fetch data from alternate storage nodes when a storage node is underperforming or offline.

The EFS 40PLUS enables organizations to build out an entire EFS clustered environment with the smallest possible footprint, saving valuable rack space and reducing power consumption simplify your production lifestyle.

Speed and Performance

The EFS 40PLUS is perfectly built for multi-stream HD and 4K collaborative production and playback. Whether working with DNxHR HQ or Apple ProRes 4444 XQ, the EFS 40PLUS is equipped to deliver the highest performance every time without dropping frames.

Perfect Integration with Media Management and Archival

The EFS 40PLUS may be seamlessly integrated with EditShare's Flow media management and Ark backup and archive solutions, enabling clients to index, tag, search, archive, and retrieve assets that are stored in the EFS filesystem.

Metadata Controller

The EFS 40PLUS storage node requires a dedicated EFS metadata controller in the server group. A second EFS metadata controller may be added to provide a highly available, "no single point of failure" storage system.



EFS 40PLUS Front



EFS 40PLUS Rear

EFS 40PLUS Product Information

Hardware Specification

- 4 RU rackmount server chassis with tool-less sliding rail kit
- server-grade motherboard with powerful quad-core CPU optimized for I/O intensive applications
- 32 GB DDR4 RAM
- boot disks: 2 x 512 GB SSDs, hot-swappable, rear-accessible, RAID-1 protection (1+1)
- storage disks: 24 x enterprise-grade 16 TB HDDs, hot-swappable, front-accessible, RAID-6 protection (10+2)
- 12 Gb/s RAID controller card
- hot-swappable, redundant power supplies (1+1) and fans
- includes two-port 10GBASE-T NIC (10 Gb SFP+, 40 Gb QSFP+, and 1000BASE-T options are available)

Software Specification

- EditShare Linux 64-bit server operating system
- Native EFS client for Windows, Mac OS, and Linux
- Additionally supports SMB, AFP, and NFS connections
- EFS 40PLUS requires a dedicated EFS metadata controller

Technical Specifications

Electrical

Input Voltage	100-260 VAC
Input Frequency	50/60 Hz
Power Consumption	250W steady state/450W peak

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

Thermal Emissions

Typical Thermal Output	1535 BTU/hr
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Dimensions

Width/Height/Depth	483 x 176 x 560 mm 19.0 x 6.9 x 22.0 in
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Weight

Shipping Weight	55 kg / 121 lb
Racked (no HDD)	28 kg / 61.7 lb
Racked (24 HDD installed)	42 kg / 92.5 lb