

# AVID NEXIS



## Workflow-optimized tiered storage for real-time media production

Avid NEXIS® is the media industry's most comprehensive and reliable shared storage solution, offering flexible, scalable storage tiering on premises and in the cloud. Optimized and powered by Avid NEXIS | VFS (virtual file system) software to accelerate media production, it enables teams of hundreds to collaborate easily, efficiently, and securely across flash, online, nearline, and archive storage. It's the storage solution the industry relies on to help them adapt to the changing needs and unpredictability of today's media production.

### BRING INTELLIGENCE TO YOUR MEDIA WORKFLOW

As the control center of Avid NEXIS, the Avid NEXIS | VFS file system virtualizes your hardware and/or cloud storage into a single pool of shared resources, providing automation intelligence to meet constantly changing workloads. From dynamically reallocating storage capacity and optimizing bandwidth to delivering protection with automatic drive rebuild, it provides the agile environment and reliability required for 24x7 operation.

### ACCESS ASSETS FROM ANYWHERE

Browse, find, and share media and projects whether you're in the facility, on location, or at home, enabling easy collaboration and fast turnaround—no matter what video, audio, news, sports, or graphics production tool you use. With your organization's entire content library and archive within easy reach, you can even capitalize on new opportunities for media rediscovery and reuse.

### GET UNMATCHED COLLABORATIVE PERFORMANCE

Enable hundreds of users to connect and access media simultaneously with Avid-patented technology that assures real-time media delivery to keep production running smoothly. Ingest, edit, and playout content to and from Avid NEXIS without dropping a single frame—even when working with high-res media in the most demanding broadcast and post-production environments.

### DEPLOY AND SCALE YOUR STORAGE YOUR WAY

Gain more flexibility and choice for your media storage with new Avid NEXIS | Flex Subscription. Get a lower cost of entry with on-premises, cloud, hybrid, and SaaS options available. Replace aging drives with powerful new Avid NEXIS F-series storage engines. Quickly scale your system to accommodate growing business, new projects, and remote teams. And transition production to the cloud more easily and cost-effectively.

### KEY FEATURES

- > Enable real-time and remote collaboration across flash, online, nearline, and archive storage tiers—on premises or in the cloud
- > Get a lower cost of entry with new Avid NEXIS | Flex Subscription
- > Scale capacity and bandwidth with ease—up to 10 PB of total storage
- > Quickly adapt storage capacity, performance, and protection on the fly to meet changing requirements, without disruption or downtime
- > Safeguard all assets with the utmost security, reliability, and protection, including high-availability and media-mirroring options
- > Centralize your entire media library for faster, easier file search and access
- > Get performance on demand with the intelligent Avid NEXIS | VFS file system
- > Work with your favorite Avid and third-party tools, including Media Composer®, Pro Tools®, MediaCentral®, Adobe® Premiere® Pro, Autodesk Flame, and more
- > Simplify nearline workflows, keeping media within easy reach for rediscovery and reuse
- > Control workspace access with folder-level permissions
- > Easily manage and monitor your system from anywhere using a computer or mobile device



FOR MORE INFORMATION, VISIT  
[avid.com/nexis](https://avid.com/nexis)



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## CUSTOMIZE A SYSTEM FOR ON-PREMISES STORAGE

Mix and match Avid NEXIS F-series and E-series engines into a single system for maximum performance and capacity, and scale both by adding more Media Packs. Avid NEXIS | F2 and Avid NEXIS | PRO+ feature an embedded System Director for systems management, making these storage engines more affordable for smaller workgroups (please note that PRO+/PRO engines cannot be connected to F/E-series engines). For larger scale deployments, high availability, and systems with F5/E5 and/or F5/E5 NL engines, the external System Director Appliance is required to boost your capabilities. You can even add a Redundant Controller to your System Director Appliance for an additional level of protection.

### Using the embedded System Director

#### Avid NEXIS | F2 storage engine

- › Enables up to 560 TB of storage capacity with 4 Media Packs across 4 engines/ expansion units
- › Expand Avid NEXIS F2 storage capacity and bandwidth with the F2X expansion unit
- › Supports up to 40 active 1Gb, 2 x 1Gb, 10Gb, 2 x 10Gb, 40Gb Ethernet-connected clients
- › Supports 8 million files

### Adding the System Director Appliance with Standard File System license

#### Avid NEXIS | F2, F2X, F5, and F5 NL storage engines

- › Enables up to 3.8 PB of raw storage capacity with 24 Media Packs
- › Supports up to 165 active 1Gb, 2 x 1Gb, 10Gb, 2 x 10Gb, 40Gb Ethernet-connected clients and 28 million files
- › Provides redundancy when a second controller is added

### Adding the System Director Appliance with Advanced File System license

#### Avid NEXIS | F2, F2X, F5, and F5 NL storage engines

- › Enables over 10 PB of storage capacity with 64 Media Packs
- › Supports up to 330 active 1Gb, 2 x 1Gb, 10Gb, 2 x 10Gb, 40Gb Ethernet-connected clients and 28 million files
- › Provides high availability when used with the Redundant Controller

### Avid NEXIS | F5

### Avid NEXIS | F5 NL

## STORAGE ENGINES



Designed for large-scale broadcast and post-production environments, this enterprise-level storage engine offers high availability, the highest level of scalability, performance, and client connections, and requires an external System Director Appliance.

For Avid NEXIS-equipped, MediaCentral-enabled creative teams working in demanding broadcast and post-production environments, this high-density, disk-based, nearline storage engine streamlines the media workflow between active and non-active production and requires an external System Director Appliance.

#### Features

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|---|---|
| <ul style="list-style-type: none"> <li>› Avid NEXIS   VFS file system (enables you to access, scale, customize, reconfigure, manage, protect, and secure your system)</li> <li>› 240 TB–1.12 PB of storage capacity with up to 8 Media Packs (60 TB, 100 TB, or 140 TB HDDs, offering up to 3.84 GB/s of bandwidth)</li> <li>› Scalable from 240 TB–8.96 PB by combining F5 with other F- and E-series engines into a single system with up to 64 Media Packs</li> <li>› Modular field-replaceable storage engine controller</li> <li>› Two hot-swappable SSDs for system configuration and metadata management</li> <li>› Two hot spare hard disk drives</li> <li>› 50 Gigabit Ethernet (50GbE QSFP+)</li> <li>› Redundant power and cooling</li> <li>› 5U rack-mountable chassis</li> </ul> | <ul style="list-style-type: none"> <li>› Avid NEXIS   VFS file system (enables you to access, scale, customize, reconfigure, manage, protect, and secure your system)</li> <li>› 640 TB–1.28 PB of redundant nearline storage capacity with four or eight 160 TB Media Packs (offering 1 GB/s of bandwidth per engine)</li> <li>› Scalable from 640 TB–10.24 PB by combining multiple engines together; can also be combined with E-series Avid NEXIS engines</li> <li>› Field-replaceable storage engine controller</li> <li>› Two hot-swappable SSDs for system configuration and metadata management</li> <li>› 10 Gigabit Ethernet (10GbE SFP28)</li> <li>› Redundant power and cooling</li> <li>› 5U rack-mountable chassis</li> </ul> |
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#### Base configurations

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| <ul style="list-style-type: none"> <li>› Single engine controller with 4 x 60, 100, or 140 TB Media Packs</li> <li>› Single engine controller with 8 x 60, 100, or 140 TB Media Packs</li> </ul> | <ul style="list-style-type: none"> <li>› Single engine controller with 4 x 160 TB Media Packs</li> <li>› Single engine controller with 8 x 160 TB Media Packs</li> </ul> |
|--|--|

#### Options

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>› Redundant Controller</li> <li>› 60, 100, and 140 TB Media Packs</li> </ul> | <ul style="list-style-type: none"> <li>› Redundant Controller</li> <li>› 160 TB Media Packs</li> </ul> |
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# Avid NEXIS—Workflow-optimized tiered storage for real-time media production

## Avid NEXIS | F2

## Avid NEXIS | F2X

### STORAGE ENGINES & EXPANSION



For small- to mid-size post-production, broadcast, audio, live event, house of worship, government, corporate, and media education environments, this team-level storage engine offers high availability and great scalability, performance, and collaboration.

For facilities and teams working with Avid NEXIS | F2, this expansion unit for F2 enables you to expand your storage capacity while also providing two optional hot spare disks.

Features	<ul style="list-style-type: none"> <li>&gt; Avid NEXIS   VFS file system (enables you to access, scale, customize, reconfigure, manage, protect, and secure your system)</li> <li>&gt; 60–140 TB of storage capacity with a single Media Pack per engine (60 TB, 100 TB, or 140 TB HDDs, offering up to 480MB/s scale out and 700 MB/s high-performance storage group)</li> <li>&gt; Scalable from 60 TB–8.96 PB by combining F2 with other F- and E-series engines into a single system with up to 64 Media Packs total</li> <li>&gt; Modular field-replaceable storage engine controller</li> <li>&gt; Two hot-swappable SSDs for system configuration and metadata management</li> <li>&gt; 10/25 Gigabit Ethernet (SFP28)</li> <li>&gt; Redundant power and cooling</li> <li>&gt; 2U rack-mountable chassis</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Adds an additional 60–140TB of storage capacity to F2 with a single Media Pack (60 TB, 100 TB, or 140 TB HDDs, offering up to 480MB/s scale out and 700 MB/s high-performance storage group)</li> <li>&gt; Modular field-replaceable SAS I/O modules</li> <li>&gt; Two optional hot spare hard disk drives</li> <li>&gt; Redundant power and cooling</li> <li>&gt; 2U rack-mountable chassis</li> </ul>
Base configurations	<ul style="list-style-type: none"> <li>&gt; Single engine controller with 1 x 60, 100, or 140 TB Media Pack</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Single expansion unit with 1 x 60, 100, or 140 TB Media Pack</li> </ul>
Options	<ul style="list-style-type: none"> <li>&gt; Redundant Controller</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Redundant Controller</li> </ul>

## Avid NEXIS | PRO+

## System Director Appliance

### STORAGE ENGINE & DIRECTOR



For independent professionals, small post-production, audio, house of worship, government, corporate, and media education environments, this professional-class standalone storage system can be used alongside other Avid NEXIS storage engines, but not physically mixed with them

The external System Director Appliance is available in two options and is required for any Avid NEXIS system that meets one or more of the following criteria:

Features	<ul style="list-style-type: none"> <li>&gt; Avid NEXIS   VFS file system (enables you to access, scale, customize, reconfigure, manage, protect, and secure your system)</li> <li>&gt; 40 TB of storage capacity with a single Media Pack per engine (offering up to 480MB/s scale out and 700 MB/s high-performance storage group)</li> <li>&gt; Scalable from 40–160 TB by combining one to four Avid NEXIS   PRO+ engines together (cannot be mixed with F/E-series engines)</li> <li>&gt; Field-replaceable storage engine controller</li> <li>&gt; Two hot-swappable SSDs for system configuration and metadata management</li> <li>&gt; 10/25 Gigabit Ethernet (SFP28)</li> <li>&gt; Redundant power and cooling</li> <li>&gt; 2U rack-mountable chassis</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Requires more than 40 client connections</li> <li>&gt; Houses five or more Media Packs (50 drives) across all networked engines</li> <li>&gt; Contains an Avid NEXIS   F5, E5, F5 NL, or E5 NL storage engine</li> <li>&gt; Requires mirror media protection</li> </ul>
Base configurations	<ul style="list-style-type: none"> <li>&gt; Single engine with 1 x 40 TB Media Pack</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Enables a single Avid NEXIS system to support 5–24 Media Packs with an Standard File System license, or 5–64 Media Packs with an Advanced File System license</li> <li>&gt; Enables a single Avid NEXIS system to support more connected clients simultaneously—up to 165 with an Standard license or up to 330 with an Advanced license</li> <li>&gt; Enables high availability performance and protection</li> <li>&gt; Increases the total system-supported file count to 28 million</li> <li>&gt; Modular field-replaceable system director controller</li> <li>&gt; Two hot-swappable SSDs for system configuration and metadata management</li> <li>&gt; Redundant power and cooling</li> <li>&gt; Provides redundancy when used with the Redundant Controller</li> <li>&gt; 2U rack-mountable chassis</li> </ul>
Base configurations	<ul style="list-style-type: none"> <li>&gt; Single engine with 1 x 40 TB Media Pack</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Redundant Controller—provides high availability when added</li> </ul>

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Avid NEXIS | Cloud

## CLOUD STORAGE



Deploy media storage in the cloud with a software subscription, making it fast and easy to set up a production environment and enable team members to access media from anywhere.

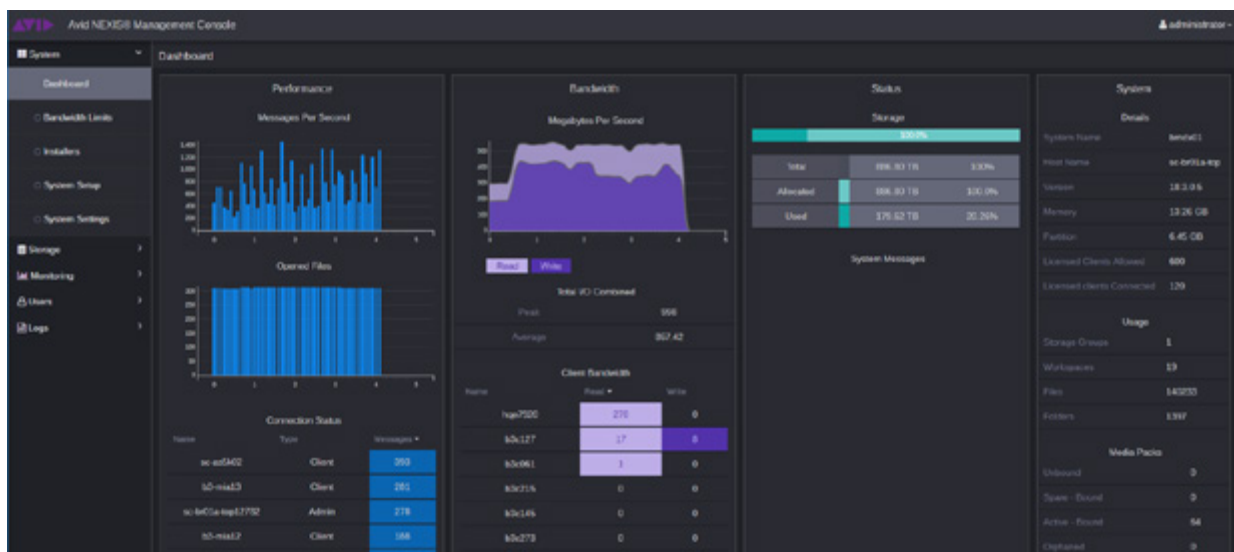
- Features
- Expand media production in the cloud for work-from-anywhere access while maintaining your broadcast workflows on-premises
  - Move your media entirely to the cloud with a solution that provides easy storage tiering
  - Choose a subscription that best matches your storage budget and business needs
  - Scale storage capacity as needed at any time, on demand

All Avid NEXIS storage engines and the System Director are compliant with the California SB-327 law for IoT and network-connected devices, providing built-in measures for more secure password protocol.

## ADD AVID NEXIS TO YOUR WORKFLOW IN NEW WAYS

Get more flexibility and choice for your media storage and workflows with new Avid NEXIS on-premises, cloud, and SaaS offerings.

- **ON PREMISES STORAGE**—Purchase an Avid NEXIS F-series hardware storage engine with Avid NEXIS | VFS software; add an Avid NEXIS | EDGE subscription to enable access and collaboration from anywhere
- **ON PREMISES WITH CLOUD FLEXIBILITY**—Purchase an Avid NEXIS hardware storage engine with an Avid NEXIS | Flex software subscription, enabling you to migrate your file system to the cloud whenever you're ready; add an Avid NEXIS | EDGE subscription to enable access and collaboration from anywhere
- **CLOUD-BASED STORAGE**—Purchase an Avid NEXIS | Cloud subscription for storage in the cloud for access from anywhere
- **BRING YOUR OWN CLOUD**—Purchase an Avid NEXIS | VFS software subscription and bring the power of Avid NEXIS to your existing Microsoft Azure cloud storage
- **TURNKEY PRODUCTION**—Purchase an Avid | Edit On Demand subscription and quickly spin up a full virtual editing suite in the cloud—complete with cloud-based Media Composer editing and Avid NEXIS storage



Easily manage, monitor, and configure your Avid NEXIS system from anywhere, using any computer or mobile device, with the Avid NEXIS web-browser Management Console.

FOR MORE INFORMATION, VISIT [avid.com/nexis](https://avid.com/nexis)