



Avid FastServe

Deliver the story first



Experience a quantum leap forward for live news, sports, and entertainment workflows. Tightly integrated into the MediaCentral® platform, Avid® FastServe™ is a high-performance video server family that empowers production teams to turn around content lightning-fast. It offers direct connection to Avid NEXIS® storage, enabling dispersed teams to ingest, edit, play back, and play out media in real time—even while it's being captured. Plus, its modular design fits any budget, improves efficiency, and provides a smooth transition to UHD, HDR, and video over IP workflows.

CREATE BETTER CONTENT FASTER

Whether ingesting media, editing highlights, providing replays, or sending content for playout, Avid FastServe enables you to deliver more higher quality content faster through three server configurations—Avid FastServe | Ingest, Avid FastServe | Live Edit, and Avid FastServe | Playout. With support for HD and Ultra HD resolutions—and the ability to edit media while capturing it—you can turn around content for any changing scenario, whether it's breaking news, an incredible play, a hot political debate, or other live event.

ACCELERATE TURNAROUND

Avid FastServe is designed to accelerate today's demanding production workflows. Avid FastServe | Ingest provides low-latency Edit While Capture capabilities in Media Composer® and MediaCentral, giving craft editors immediate access to media for faster story delivery. When rapid response is critical, Avid FastServe | Live Edit offers ingest, editing, and playout capabilities in one box for breaking news and live sports productions that require instant turnaround. And with Avid FastServe | Playout, you can play content directly from Avid NEXIS storage immediately, with no file rendering or transfer time required.

GET GREAT FLEXIBILITY AND SCALABILITY

Avid FastServe features a modular design that delivers deployment flexibility, performance, and scalability, so you can start small and grow as needed. As the industry moves from HD to UHD, and from SDI to video over IP, Avid FastServe provides an easy transition path with interchangeable interfaces. Its 10GbE architecture also tightly integrates with Avid NEXIS—without requiring any additional hardware.

IMPROVE EFFICIENCY WHILE LOWERING COSTS

From classic news ingest and playout, to turning around breaking news stories and live sports coverage quickly, Avid FastServe can handle the complex and ever-changing needs of modern broadcasters. It also reduces production costs with open support for IP, SDI, and mixed environments, providing a truly exceptional return on investment. Plus, only a single operator is required to orchestrate media for a multitude of workflows and needs, saving additional resources.

STREAMLINE YOUR WORKFLOW

Avid FastServe fully integrates with the MediaCentral platform, simplifying production workflows. FastServe | Ingest can be fully controlled by MediaCentral | Capture, enabling auto file check-in and instant availability for logging and Edit While Capture. With FastServe | Live Edit, any sports highlight or news segment created by the operator is automatically and instantly shared with the entire production environment, enabling immediate response while extending creative editorial opportunities. And FastServe | Playout works with Maestro™ | News, offering graphics and video playout in a single solution.

KEY FEATURES

- Boost production efficiency with ultra-fast turnaround of HD and UHD live news and sports content
- Speed your time to air by eliminating the need to transcode content to a unified format for playout
- Consolidate video and graphics playout through a single high-performance system
- Save resources—without compromising quality—as only one operator is needed to run the server
- Get support for higher channel counts, and be ready today for the transition to UHD and IP workflows
- Handle multiple workflows—from classic news ingest and breaking news scenarios, to election coverage, high-profile sporting events, and multi-cam productions
- Get the flexibility to start small for your current workflow, with the modularity to scale a server as needed
- Reduce production costs with open support for video over IP, SDI, and mixed environments
- Protect your capital investment with support for future production formats

FOR MORE INFORMATION, VISIT
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CHOOSE FROM THREE SERVER CONFIGURATIONS

Capture media quickly with Avid FastServe | Ingest

Avid FastServe | Ingest is designed to help live news, sports, and entertainment productions overcome the challenges of baseband ingest. It can encode up to four UHD streams or up to eight HD streams simultaneously from in-studio cameras, satellite feeds, and other input sources.

FastServe | Ingest now also supports “Edit While Capture” and multicam workflows, and it offers hundreds of hours of internal storage. Plus, its redundant 10GbE interface delivers real-time media transfer to Avid NEXIS—all in a compact 3U chassis.

Turn around replays and highlights with Avid FastServe | Live Edit

When timing is critical, Avid FastServe | Live Edit kicks in as your storytelling first response tool, offering media ingest, editing, and playout capabilities in a single versatile solution. It can capture up to four simultaneous UHD feeds or eight simultaneous HD sources—24/7 if needed—through SDI or IP.

With on-the-fly real-time editing on the video server itself, you can turn around content in seconds, speeding your time to air—ideal for press conferences, political debates, sports highlights, replays, and other live events. Comprised of a server, software, and intuitive controller, FastServe | Live Edit streamlines collaboration across MediaCentral, provides intuitive touchscreen and tactile control, and helps prevent inappropriate content from getting to air.

Play and control content easily with Avid FastServe | Playout

Avid FastServe | Playout has been completely redesigned, now offering flexible UHD and HD playout channels—with support for a wide range of codecs and wrappers—enabling back-to-back video and graphics playout in fast-paced news environments. It provides two channels of UHD playback in DNxHR, XAVC, and H.264 formats, or up to eight HD/3G playout channels.

The new FastServe | Playout also offers 8 TB of RAID-protected internal storage, as well as direct media playback from Avid NEXIS, decreasing response time and minimizing network traffic during production. When paired with Maestro | News, it provides fully integrated video, image, and motion graphics playout. It also tightly integrates with MediaCentral, offering a streamlined workflow for end-to-end UHD/HD playback.



AVID FASTSERVE | INGEST



AVID FASTSERVE | LIVE EDIT WITH REPLAY CONTROLLER



AVID FASTSERVE | PLYOUT

FASTSERVE | INGEST & FASTSERVE | LIVE EDIT SERVERS

CPU	2 x Intel Xeon 8-Core 2.1 GHz
Operating system	CentOS Linux
Memory	64 GB RAM
Data interfaces	1 x Serial 4 x USB 3.0 (2 front, 2 back) 2 x 10Gb Ethernet (SFP) 2 x 1Gb Ethernet (RJ45) 1 x VGA maintenance (back) 1 XLR LTC input
Internal storage	Video server—16 x 2 TB SATA 3, RAID 60 System disk—2 x 240 GB SSD, RAID 1
Media capacity	XDCAM50 422: Over 500 hours DNxHD SQ 120/145: Over 200/160 hours DNxHR SQ 3G: Over 100/80 hours
Supported video codecs	HD: XDCAM HD 422, DNxHD 120/145 SQ, DNxHD 185/220 HQ-X 3G: DNxHD 240/290 SQ, DNxHD 370/440 HQ-X UHD: DNxHR 1480/1760 HQ-X
Video inputs	HD-SDI/3G-SDI with clean and OSD loops
Video outputs	1 x HD-SDI/3G-SDI
Video outputs (monitoring)	1 x HD-SDI/3G-SDI, OSD On/Off
Available I/O configurations—HD	Fully Flexible: 8 in / 0 out, 7 in / 1 out, 6 in / 2 out, 5 in / 3 out, 4 in / 4 out, 3 in / 5 out, 2 in / 6 out, 1 in / 7 out, 0 in / 8 out
Available I/O configurations—UHD	Fully Flexible: 4 in / 0 out, 3 in / 1 out, 2 in / 2 out, 1 in / 3 out

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FASTSERVE INGEST & FASTSERVE LIVE EDIT SERVERS (CONTINUED)	
Audio	Embedded audio—PCM; up to 8 stereo audio channels per video input; 4 stereo for XDCAM
Video references	Genlock, Analog Black Burst / Tri level sync / 75Ω with loop through
Timecode input	Internal free run LTC—XLR Embedded VITC / ATC (RP-188)
Timecode output	VITC / ATC
Dimensions (H x W x D)	3U Rack, 5.1 x 17.4 x 31.1 inches (130 x 443 x 790 mm)
Weight	83.7 lbs (38 kg) approximate
Power supply	Redundant power supply, 100–240V, 47–63 Hz, 2 x 1,500w (max)
Environmental conditions	Operating temperature: 41°–104°F (5°–40°C) Storage temperature: -40°–158°F (-40°–70°C) Humidity: 90% max
FASTSERVE LIVE EDIT CONTROLLER	
CPU	Atom N270
Operating system	Linux
Memory	1 GB RAM
System hard drive	8 GB SSD
LCD	5.7-inch (144.8 mm) 640x480 TFT color touchscreen
Controls	37 illuminated push buttons, 3 million operations minimum; user-configurable jog wheel; T-bar controller
Channel configurations	8-channel server <ul style="list-style-type: none"> ▪ 7 in / 1 out ▪ 6 in / 2 out (PVW-PGM / 2PGM / MultiPGM) ▪ 4 in / 4 out (Adding a second controller enables two more outputs to be configured)
Super slow motion configurations	Supports 2x, 3x, 4x, and 6x normal speed cameras, combined with single phase camera recording channels
Data interfaces	1 x Serial 2 x USB 2 x 1Gb Ethernet 1 x VGA
Input devices	Support for external USB keyboard and USB mouse
Dimensions (H x W x D)	7.1 x 11 x 11.2 inches (180 x 280 x 285 mm)
Weight	10.6 lbs (4.8 kg) approximate
Power consumption	100–240V, 47–63 Hz, 60w (max)
Environmental conditions	Operating temperature: 41°–104°F (5°–40°C) Storage temperature: -40°–158°F (-40°–70°C) Humidity: 90% max
FASTSERVE PLAYOUT SERVER	
CPU	2 x Intel Xeon 14-Core 2.4 GHz
Operating system	CentOS Linux
Memory	64 GB RAM
Data interfaces	4 x USB 3.0 (2 front, 2 back) 2 x 10Gb Ethernet (SFP) 2 x 1Gb Ethernet (RJ45) 1 x VGA maintenance (back) 1 XLR LTC input
Internal storage	Video server—16 x 2 TB SATA 3, RAID 60 System disk—2 x 240 GB SSD, RAID 1

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FASTSERVE PLAYOUT SERVER (CONTINUED)	
Supported video codecs	IMX 30/50, MPEG2 (Iframe or GOP), XDCAM 50/35/18 DV 25/50, DVCPPro 100 DNxHD SQ/HQ/HQ-X (including video + alpha from MOV) AVC-I 50/100/200, AVC-L 12/25/50 XAVC-I 50/100/200. XAVC-LongG 25/35/50 QT Animation (RLE, with Alpha) Images: PNG, JPEG, TGA, TIFF, BMP, SGI UHD: XAVC-I 300/480, UHD XAVC-L
Video outputs	18 x 3G-SDI 8 HD outputs / 2 quad link SDI UHD outputs
Video outputs (monitoring)	1 x HD-SDI/3G-SDI OSD On/Off
Audio	Embedded audio—PCM; up to 8 stereo audio channels per video input; 4 stereo for XDCAM
Available I/O configurations	HD: 8 x video playback / 4 x fill + key / other combinations UHD: 2x video playback
Video references	Genlock, Analog Black Burst / Tri level sync / 75Ω with loop through
Dimensions (H x W x D)	3U Rack 5.1 x 17.4 x 31.1 inches (130 x 443 x 790 mm)
Weight	83.7 lbs (38 kg) approximate
Power supply	Redundant power supply 100–240V, 47–63 Hz, 2 x 1,500w (max)
Environmental conditions	Operating temperature: 41°–104°F (5°–40°C) Storage temperature: -40°–158°F (-40°–70°C) Humidity: 90% max

Corporate Headquarters
800 949 AVID (2843)

Asian Headquarters
+ 65 6476 7666

European Headquarters
+ 44 1753 655999

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