



AirSpeed Multi Stream

The Workflow Server



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The Avid AirSpeed® Multi Stream server extends and accelerates the Avid digital production environment with directly-connected ingest and playout capability. Designed for broadcast and production applications with regular feed or live acquisition and playback needs, AirSpeed can operate as a standalone device or coupled with an Avid ISIS® shared media network, allowing incoming material to be used immediately by all contributors. AirSpeed has a big impact on productivity with up to 4 simultaneous P2 HD/ AVC-Intra, XDCAM/EX HD, and SD or 2 high quality Avid DNxHD® channels, but its small 1.5rU form factor and low per channel power and cooling demand has a modest impact on your facility. And AirSpeed integrates easily with your existing systems, applications, and processes—including automation systems.

End-to-end Production Workflow in Your Format

Native format support eliminates transcoding steps and work-arounds for faster and simpler start-to-finish workflow. AirSpeed is available in MPEG-2 HD + SD, AVC-Intra + SD, Avid DNxHD + SD and upgradable SD models, so you can choose the capability that fits your current and future plans and avoid paying for what you don't need. MPEG-2 HD and AVC-Intra models use Sony and Panasonic –sourced hardware codecs for the most faithful, full-spec implementations. The H.264 MPEG-4 option adds encoding of up to four simultaneous proxy media channels for easy and fast LAN/WAN-based workflows with Interplay Production.

Faster Production

The AirSpeed Multi Stream server works with Avid® NewsCutter®, Media Composer®, iNEWS® Instinct®, Media Composer® or Symphony™ editors and ISIS® shared storage to virtually eliminate the time between acquisition and editing. FrameChase™ editing leverages AirSpeed to let connected editors access material seconds after the transfer begins, accelerating time-critical news, talk show, and sports production. When the edits are finished, a single click sends segments to AirSpeed for playback.

Fits Your Budget

Fast, easy to afford ingest-to-playback workflow starts with AirSpeed and an Avid editing system. The Avid NewsVision™ solution adds NewsCutter or Media Composer editing seats, ISIS 5000 shared storage, and support, training, and on-site professional services to ensure smooth, successful implementation at an unbeatable price. When you're ready, add the Avid Interplay® Production asset management system for even faster workflow with centralized tracking of all assets, and available archiving and proxy production workflow for easy, quick access to every contributor – no matter their location.

Automated Capture and Playback

Full integration with the Interplay Capture ingest control system delivers reliable feed scheduling and recording, while the built-in IsoSync® feature allows one-button, frame-synchronized multi-camera capture into Avid ISIS or Avid Unity™ shared storage for fast editing and turnaround. When it's time to go to air, the iNEWS Command playback control application provides cost effective play to air under automated, assisted, or manual control. AirSpeed servers also interface easily with automation systems through an available API and industry standard VDCP and Sony BVW protocols, and support external timecode and GPI/O.

Codec Flexibility

The AirSpeed server was designed with workflow speed and format flexibility in mind. Clips that don't match the preferred playback format are automatically up, down, or cross converted, and channel output switching between HD and SD eliminates the need to dedicate channels to one format. Field-upgradeability simplifies SD to HD transition, and AirSpeed is designed to enable support for formats and resolutions, allowing facilities and broadcasters to adopt new acquisition formats without total hardware replacement.

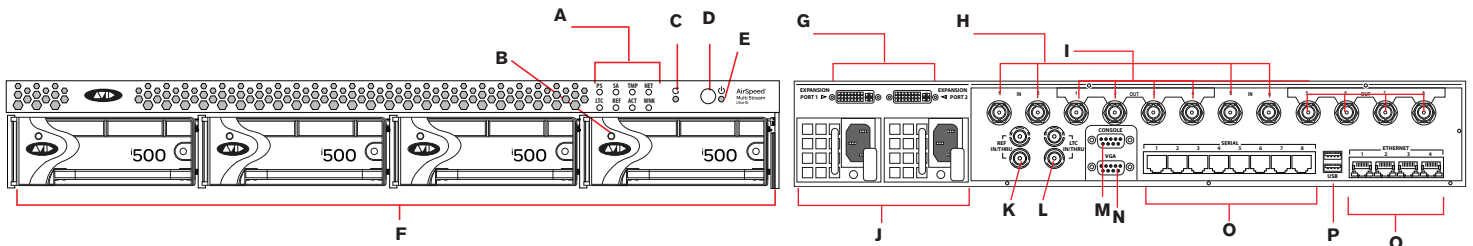
Reliable Play to Air

Safe playout transmission is ensured by caching material from shared storage onto the AirSpeed system's internal storage. Grouping up to four systems in an AirSpeed Studio configuration provides redundancy and flexibility for even greater playout confidence, along with the option for failover channels with the iNEWS Command playback control application.

Safe, Extended Access

The Remote Console application provides the ability to monitor, control, cue, play, record, change clip in/out points, create sub clips, and manage clip inventory for all AirSpeed servers from any CPU. Clips are easily identified with reference frames and all media is accessible to feed room operations and connected editing clients. Administrators can grant selective user access control to help protect the integrity of on-air operations.

Quality, Performance and Value – Input to Output.



A. LEDs: Power Supplies Status, Temperature, Network Link, LTC In, Reference In, Active Status
 B. Media Drive LED
 C. Reset

D. Power Button
 E. Power LED
 F. Removable Media Drives
 G. Expansion Ports 1 and 2
 29 Pin DVI Connectors

H. Serial Digital Interface In BNC Connectors
 I. Serial Digital Interface Out BNC Connectors
 J. Dual Redundant Hot-Swappable Power Supplies

K. Video reference In/Loop BNC Connectors
 L. LTC In/Loop BNC Connector
 M. Console: RS-232 Terminal Access

N. VGA Monitor Connection
 O. 8 Serial RJ-45 Connections
 P. 2 USB Connections
 Q. 4 1000BASE-T Ethernet Ports

Specifications

Video

Video Channels

- 525/625 selectable

Video Input

- (For SD Model) 2 SDI (SMPTE 259M)
- (For MPEG-2 HD, AVC-Intra Models) 4 SDI (SMPTE 259M, SMPTE 292M, SMPTE 295M, SMPTE 296M)
- (For Avid DNxHD Model) 2 SDI (SMPTE 292M, SMPTE 2019)

Video Output

- (For SD Model) 4 SDI (SMPTE 259M) 4 simultaneous
- (For MPEG-2 HD, AVC-Intra Models) 8 SDI (SMPTE 259M, SMPTE 292M, SMPTE 295M, SMPTE 296M) 4 simultaneous
- (For Avid DNxHD Model) 4 SDI (SMPTE 292M) 2 simultaneous or 4 SD
- (Optional) H.264/MPEG-4 proxy per each MPEG-2 HD, AVC-Intra, or DNxHD output channel

Video Compression

- DV25 (4:1:1 and 4:2:0), DV 50 (4:2:2), IMX 30 and 50, HDV 25Mbps, MPEG-2 HD 17.5, 35, and 50 Mbps, AVC-Intra 50 and 100Mbps, Avid DNxHD 120/145 and 185/220 Mbps
- H.264/MPEG-4 800Kb/s video; two 192Kb/s audio channel pairs

Video Monitoring

- 1 VGA port

Audio

Channels

- SD SDI 8 channels (4 pair) per video stream capture; 8 channels (4 pair) of audio playback
- MPEG-2 HD, AVC-Intra, Avid DNxHD SDI 16 channels (8 pair) per video stream capture; 16 channels (8 pair) of audio playback

Sampling

- 48 KHz, 16, or 24 bit precision AC-3 and Dolby E
- Fully compatible with professional and consumer encoding

Embedded Audio

- 48 KHz 20 bit sample resolution; 8 channels (4 pair) per video stream for SD; 48 KHz 24 bit sample resolution 16 channels (8 pair for MPEG-2 HD, AVC-Intra, Avid DNxHD)

Control and Synchronization

External Control

- VDCP; Sony BVW

Manual Control

- Record, play, trimming, locators, and configuration through UI
- IsoSync synchronized record, start and stop of multiple channels and servers through UI

Timecode

- LTC SMPTE 12M Single Ended I/O
- VITC SMPTE 266 Compatible with Input and Output Line Selections

Reference

- Analog black burst/tri-level reference, looping input

Internal Time

- Derived from LTC single ended SMPTE - 12M reference input

Closed Caption and Ancillary Data

- All Closed Caption lines are preserved (DV, IMX, Avid DNxHD)
- All ancillary data preserved in MPEG-2 HD, AVC-Intra, Avid DNxHD per SMPTE 436

Data

Keyboard/Mouse Port

- 2 USB 2.0 connector for USB compatible keyboard and mouse

Ethernet Port

- RJ-45 connector, 10BASE-T, 100BASE-T, or 1000BASE-T, auto sensing

Rear Panel Connections

Serial Remotes 1-8:

- RJ45 connector, RS-422

LTC Out

- 4 BNC connectors on Expansion port cable connected to 29-pin female DVI connector

LTC In

- 1 BNC connector; Loop through: 1 BNC connector

SDI In

- SD and Avid DNxHD Model (2) BNC connectors; MPEG-2 HD and AVC-Intra models (4) BNC connectors

SDI Out

- SD and Avid DNxHD model (4) BNC connectors
- MPEG-2 HD and AVC-Intra models (8) BNC connectors

Reference In

- 1 BNC connector; Loop through: 1 BNC connector

GPIO

- 18 GPI/10 GPO programmable pins through DB25 expansion port

Physical

Physical Dimensions

- inches: 19.00 (w) x 2.6 (h) x 28.5 (d)
- cm: 48.3 (w) x 6.6 (h) x 72.4 (d)
- Rack Units: 1.5rU

Weight

- Pounds: 48
- Kilograms: 21.8

Power

- 100 to 240 VAC, 50/60 Hz auto ranging, 415 watts typical

Environmental

- 5°C to 40°C, 85% RH non-condensing
- 1417 BTU/hr. typical

For more information visit www.avid.com/airspeedmultistream

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