



AirSpeed Multi Stream

The Workflow Server

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The 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 Multi Stream directly records into an Avid Unity™ shared media network, allowing incoming material to be used immediately by all contributors. Native support for digital HD and SD acquisition formats smoothes production and saves time at each end of your nonlinear workflow. AirSpeed Multi Stream 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 when it comes to facility fit, AirSpeed Multi Stream interoperates and integrates easily with your existing systems, applications, and processes—including third-party automation systems.

End-to-end Production Workflow in Your Format

Native format support eliminates transcoding steps and workarounds for faster and simpler start-to-finish workflow. AirSpeed Multi Stream 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.

Faster Production

The AirSpeed Multi Stream server works with Avid® NewsCutter®, iNEWS® Instinct®, Media Composer® or Symphony™ editors to virtually eliminate the time between acquisition and editing. FrameChase™ editing leverages AirSpeed Multi Stream to let connected editors access material seconds after the transfer begins, accelerating time-critical news, talk show, and sports production. Direct connection and full interoperation with the Avid Unity media network and Avid Interplay® production management systems provides all contributors with easy, quick access to material and automatically generated key frames for each clip. When finished, a single click sends segments to AirSpeed Multi Stream for playback.

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 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 Multi Stream 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.

Sized Right

With a small 1.5RU form factor and support for up to four simultaneous HD streams, the AirSpeed Multi Stream server is the most efficient way to address your video acquisition and playback requirements. Channels can be remotely reassigned for ingest or playback for added flexibility that saves time and expense. The compact, efficient design of the AirSpeed Multi Stream server also saves on your power and cooling requirements.

Upgradeable Codecs

The AirSpeed Multi Stream server was designed with the future in mind. The SD model is field-upgradeable to simplify SD to HD transition, and all AirSpeed Multi Stream models are designed to enable support for other formats and resolutions, allowing facilities and broadcasters to adopt new acquisition formats without total hardware replacement.

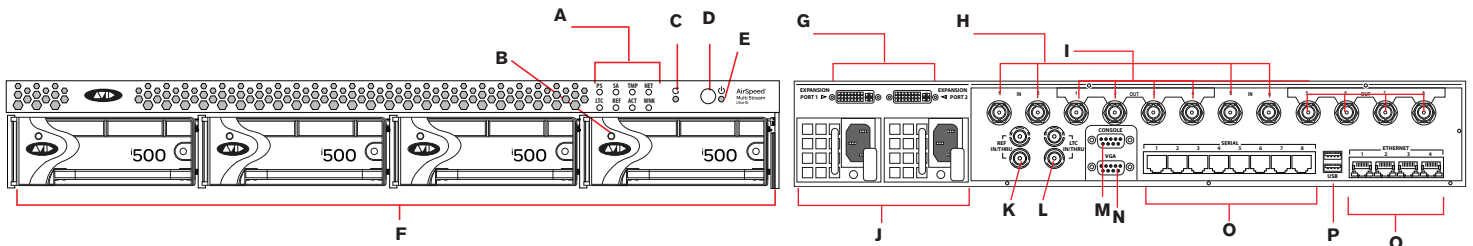
Reliable Play to Air

Safe playout transmission is ensured by caching material from shared storage onto the AirSpeed Multi Stream 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.

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 Multi Stream servers from any CPU. Clips are easily identified with reference frames and all media residing on local AirSpeed or Avid Unity storage is as accessible to feed room operations as it is to the connected editing clients.

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
- 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

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

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

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

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

For more information visit www.avid.com/airspeedmultistream

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