



# AirSpeed | 5500

Versatile media ingest and playout



Accelerate your entire SD, MPEG-2 HD, and XAVC<sup>®</sup> Intra HD media workflows with Avid<sup>®</sup> AirSpeed<sup>®</sup> | 5500. This best-in-class multichannel video server enables you to manage feeds, live acquisition, content production, and play-to-air demands easily. From direct codec support, automated capture, and proven media protection, to near-instantaneous ingest-to-playback turnaround and playout flexibility, AirSpeed | 5500 provides the performance and reliability you need to produce and deliver top-quality news, television, and sports content—on time and on budget.

## Turn around stories faster

With AirSpeed | 5500, you can automate and get near-instantaneous ingest-to-playback turnaround, enabling you to get stories or content to air as quickly as you acquire the media. You can also directly exchange files between XDCAM and/or XAVC Intra HD decks, third-party servers, Media Composer<sup>®</sup>, and other editing systems; start editing seconds after media recording begins using FrameChase<sup>™</sup>; and send content directly to AirSpeed | 5500 for playout with a single click. It's the only video server that's designed to simplify and accelerate your entire media production workflow, from end to end.

## Open to your unique and changing workflows

AirSpeed | 5500 runs on the Avid MediaCentral<sup>™</sup> Platform, giving you easy workflow integration, unrivaled collaboration, and great versatility. Choose to use it in your facility or in the cloud, with Avid and/or third-party systems, in a workgroup-connected environment, or as a standalone video server. Thanks to its open architecture, you can work with your choice of editing software, automation control systems, and external hardware controllers, with the freedom to switch things up should your needs change.

## Access assets anywhere

By integrating AirSpeed | 5500 into an Interplay<sup>®</sup> | Production and ISIS<sup>®</sup> workflow, you gain unparalleled collaboration, performance, and access to all of your workgroup's media, whether you're onsite or working remotely. Plus, it brings a whole new level of creativity and collaboration with Media Composer | Cloud (formerly Interplay Sphere) and MediaCentral | UX (formerly Interplay Central), supporting a start to finish workflow using XAVC Intra HD.

## Save time and money

Eliminate time-consuming transcoding with direct support of XAVC Intra HD, MPEG-2 HD (such as XDCAM and HDV), DV50, IMX 30, and other HD and SD media formats. In addition, AirSpeed | 5500 provides built-in up-, down-, and HD cross-conversion on ingest and playout across all channels, making it easy to work with disparate media, while eliminating the need for costly converters.

## Automate capture and playback

Whether you use an Avid or third-party automation control system, content recording and playout have never been easier. Integrate Interplay | Capture and take the guesswork out of feed scheduling and recording. Use the built-in IsoSync<sup>®</sup> feature for one-button, frame-synchronized capture to ISIS for fast editing and turnaround. Capture events of any length with continuous recording. Integrate iNEWS<sup>®</sup> | Command for cost-effective playout with precision automation. Or integrate a variety of third-party control systems through an available API, industry-standard VDCP, Sony BVW control protocol, or GPIO.

## Future-proof your workflow with the powerful new chipset

Though it has the ruggedly dark and stylish looks of the AirSpeed 5000 server on the outside, AirSpeed | 5500 is designed around an advanced chipset that enables support for XAVC Intra HD 1080i 50/60 100mbps. It provides the same features, performance, automation, and workflows you know and love about the AirSpeed 5000 MPEG-2 HD model, with the capacity to do even more for you down the road.

## Manage media with the utmost security

With 8 TB of usable storage (215 hours of 50Mb/s HD video) in the 4-channel model, or 4 TB of usable storage in the 2-channel model, you'll have plenty of space to house your programming, commercial, and interstitial content. Plus, you get optimal performance, fail-safe operation, and peace of mind with RAID 5 media protection and redundant OS drives, power supplies, network connections, and system fans.

## Get peace of mind with industry-proven technology

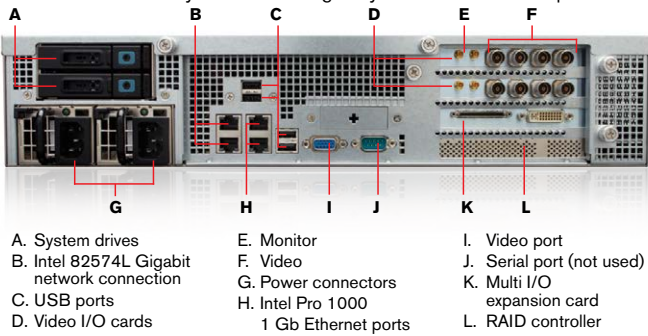
Get the workflow integration, open design, codec agility, and playout flexibility you need to handle a variety of content for long-term broadcast success. That's why AirSpeed video servers are proven and trusted by hundreds of broadcast stations worldwide, in some of the most demanding production environments.

For more information, visit [avid.com/AirSpeed5500](http://avid.com/AirSpeed5500)

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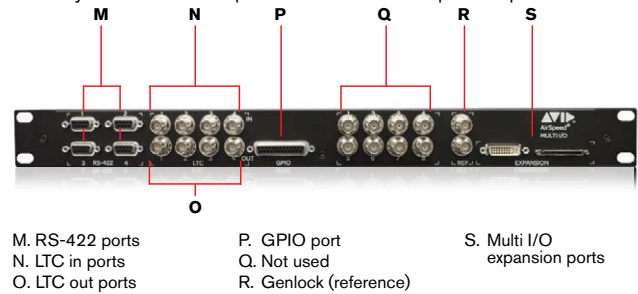
## AirSpeed | 5500 (backside)

Get the connections you need to integrate your entire studio setup.



## AirSpeed Multi I/O (included)

Extend your connection capabilities with the I/O expansion panel.



## Specifications

Video	
<b>Video channels</b>	<p><b>Choice of two models:</b></p> <ul style="list-style-type: none"> <li>2-channel, bi-directional (2 inputs, 2 outputs, 2 auxiliary outputs)</li> <li>4-channel, bi-directional (4 inputs, 4 outputs, 4 auxiliary outputs)</li> </ul> <p><b>Both models support:</b></p> <ul style="list-style-type: none"> <li>PAL, NTSC, 1080i 50/60, 720p 50/60 (SMPTE 259M, SMPTE 292M, SMPTE 295M, SMPTE 296M)</li> </ul>
<b>Supported video compression</b>	<p><b>Supports recording and playback of:</b></p> <ul style="list-style-type: none"> <li>DV25 (4:1:1 and 4:2:0), DV50 (4:2:2)</li> <li>HDV (25 Mbps)</li> <li>IMX 30, IMX 50</li> <li>MPEG-2 HD 17.5 Mbps, 35 Mbps (thin and full raster), 50 Mbps</li> <li>XAVC Intra HD 1080i 50/60 100mbps</li> <li>All SD formats</li> </ul> <p><b>Supports playback of:</b></p> <ul style="list-style-type: none"> <li>DNxHD 85/100, 120/145; also supports 185/220 with 2 channels on the 4-channel model or 1 channel on the 2-channel model</li> <li>(2-channel model only) AVC-Intra 50, 100</li> </ul> <p><b>Options:</b></p> <ul style="list-style-type: none"> <li>DNxHD option enables recording capabilities in addition to playback</li> <li>H.264 Low-Res Proxy option enables real-time simultaneous H.264 proxy creation (800 Kbps) for each record channel</li> </ul>
<b>Aspect Ratio Conversion (ARC)—up-, down-, cross-conversion</b>	<ul style="list-style-type: none"> <li>SD ↔ 1080i, SD ↔ 720p, 720p ↔ 1080i, SD 4:3 ↔ SD 16:9</li> <li>Supports crop, anamorphic, pillarbox, and letterbox with dynamic conversion based on AFD</li> <li>Supported on both record and playback</li> </ul>

Audio	
<b>Channels/pairs</b>	<ul style="list-style-type: none"> <li>SD (record or play): Up to four pairs of embedded audio per video channel</li> <li>HD (record or play): Up to eight pairs of embedded audio per video channel</li> </ul>
<b>Sampling</b>	16- or 24-bit, 48 kHz
<b>Compressed audio preservation</b>	Pass-through of AC-3 and Dolby E audio
<b>Low-res proxy audio</b>	<ul style="list-style-type: none"> <li>Up to eight pairs of proxy audio creation per record channel</li> <li>MPEG-1 Layer 2 audio compression</li> </ul>

Control and synchronization	
<b>External control</b>	<ul style="list-style-type: none"> <li>Sony BVW 75 protocol</li> <li>VDCP</li> <li>Native Network API (AMS API)</li> </ul>
<b>Manual control</b>	<ul style="list-style-type: none"> <li>Record, play, trimming, and configuration through UI</li> <li>IsoSync synchronized cue, record, and stop of up to 12 channels across multiple servers through UI</li> <li>GPI/O (Record, Play, Stop, Recue)</li> </ul>
<b>Timecode</b>	<ul style="list-style-type: none"> <li>LTC SMPTE 12M, one input and output per video channel</li> <li>VITC SMPTE 266 with input and output line selections</li> <li>Ancillary timecode</li> </ul>
<b>Reference</b>	Analog black burst (NTSC or PAL) or tri-level reference, with loop-through input/output
<b>Closed captioning and ancillary data</b>	<ul style="list-style-type: none"> <li>All closed caption lines are preserved (DV, IMX)</li> <li>All HD ancillary data preserved per SMPTE 436</li> </ul>

Additional features	
<b>Redundancy</b>	<ul style="list-style-type: none"> <li>Redundant network connections</li> <li>Hot-swap redundant power supplies</li> <li>Hot-swap media drives</li> <li>Hot-swap mirrored boot drives</li> <li>N+1 system fans</li> </ul>
<b>File ingest/exchange</b>	FTP transfer of MXF OP1a files, in or out
<b>Storage</b>	<ul style="list-style-type: none"> <li>2-channel: Five 1 TB drives (4 TB useable) with RAID 5 protection</li> <li>4-channel: Ten 1 TB drives (8 TB useable) with RAID 5 protection</li> </ul>

Connections	
<b>Serial</b>	Four DB-9 RS-422 connectors
<b>LTC in</b>	Four BNC connectors
<b>LTC out</b>	Four BNC connectors
<b>SDI/HD-SDI in</b>	One BNC connector per channel
<b>SDI/HD-SDI auxiliary out</b>	<ul style="list-style-type: none"> <li>One BNC connector per channel (Main output)</li> <li>One 1.0/2.3 connector per channel (auxiliary output; 1.0/2.3 to BNC adapters included)</li> </ul>
<b>Reference in/loop</b>	Two BNC connectors (1 in and 1 loop out)
<b>GPIO</b>	Eight GPI and eight GPO programmable pins through a DB25 expansion port
<b>Keyboard/mouse port</b>	Four USB 2.0 connectors for a USB-compatible keyboard and mouse
<b>Ethernet ports</b>	Four RJ-45 connectors, 100BASE-T, or 1000BASE-T, auto-sensing
<b>Video</b>	15-pin SVGA

Dimensions and weights	
<b>Server chassis</b>	<ul style="list-style-type: none"> <li>Rack space: 2U</li> <li>Dimensions (W x H x D): 19 x 3.5 x 29.5 in (483 x 89 x 749 mm)</li> <li>Weight: 62 lbs (28.1 kg)</li> </ul>
<b>Multi I/O expansion panel</b>	<ul style="list-style-type: none"> <li>Rack space: 1U</li> <li>Dimensions (W x H x D): 19 x 1.75 x 4 in (483 x 45 x 102 mm)</li> <li>Weight: 4.4 lbs (2 kg)</li> </ul>

General	
<b>Power</b>	<ul style="list-style-type: none"> <li>Dual redundant hot-swap power supplies</li> <li>90–240 VAC, 50/60 Hz</li> <li>362W typical</li> <li>720W maximum</li> </ul>
<b>Environmental</b>	<ul style="list-style-type: none"> <li>Operating temperature: 0°C to 40°C</li> <li>Operating humidity: 5%–95% (at 38°C) non-condensing</li> <li>Non operating temperature: -20°C to 60°C</li> <li>1,235 BTU/hr typical</li> <li>2,593 BTU/hr maximum</li> </ul>
<b>Acoustics</b>	<ul style="list-style-type: none"> <li>63.5 dB at 1 meter typical</li> <li>78 dB at 1 meter maximum (at 40°C)</li> </ul>

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For more information, visit [avid.com/AirSpeed5500](http://avid.com/AirSpeed5500)

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