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Cisco AS8100 Series Media Processor

The Cisco[®] Media Processor Family of advanced, live standard- and high-definition (SD and HD, respectively) encoding solutions is redefining the online video experience with best-in-class quality for live media delivery applications such as live sports and other web streaming, broadband TV, IPTV, enterprise, education, or government video.

The robust, reliable Cisco Media Processor platform can stream in multiple formats to any device, including iPhone[®], iPad[®], feature phones, and smartphones. Cisco was the first to offer full support for and continues to lead the market in adaptive bitrate (ABR) streaming, including Apple[®] HTTP Live Streaming (HLS), Microsoft Internet Information Server (IIS) Smooth Streaming, and Adobe HTTP Dynamic Streaming. The Cisco Media Processor can detect broadcast cue messages and translate critical ad metadata into ad markers appropriate for the Flash and Silverlight platforms as well as Apple[®] iOS devices.

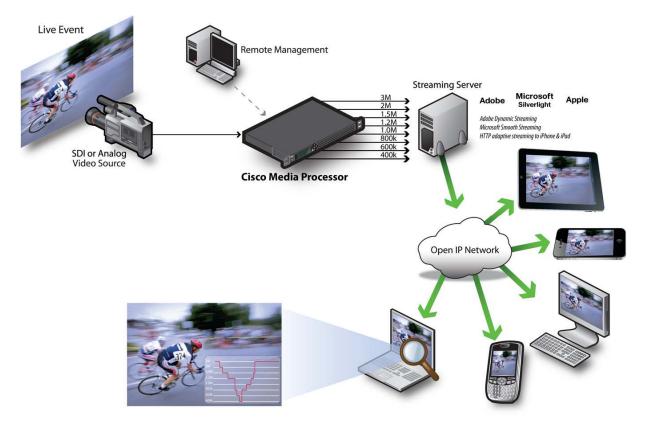


Figure 1. Cisco AS8100 Series Media Processor workflow example.

Protect Your Infrastructure Investment

Cisco can help you protect your IP video infrastructure investment. Even if you are streaming only in SD today, the Cisco AS8100 Series Media Processor (Cisco AS8100) protects your investment. When you are ready to add HD resolutions such as 720p or 1080p, the Cisco AS8100 is ready to deliver, and is multiformat at the start—so you do not need to add appliances every time you add a format. The patent pending Cisco Media Processor Core Software technology allows you to continue to upgrade your existing Cisco encoder with the latest and most innovative technologies.

Why Cisco AS8100?

- Cisco AS8100 offers full support for adaptive streaming, including Apple[®] HLS iPhone[®] and iPad[®] streaming, Microsoft Smooth Streaming and Adobe Dynamic Flash Streaming.
- The powerful and flexible core software platform of the Cisco AS8100 can output multiple formats from one appliance while offering a range of resolutions, from feature phones to smartphones to SD to HD.
- Designed to be easy to set up and manage, the web-based interface of the Cisco AS8100 gives you the flexibility of controlling the encoder from any networked computer. Its scheduling capabilities allow you to set up future one-time or recurring events, and its XML application programming interface (API) allows you or third-party applications to control the encoder with automated commands.
- In order to provide the highest-quality video, Cisco starts with a high-end video capture card, adds multiple
 preprocessing options and powerful Intel Quad Core processors, uses patent-pending Dynamic Complexity
 balancing, and exposes one of the most comprehensive list of advanced compression settings. No other
 encoder allows you to customize your settings like Cisco.
- The Cisco AS8100 supports multiple captioning options, including open captions, closed captions, Synchronized Accessible Media Interchange (SAMI) captions, script streams, and cue points. This flexibility gives you multiple ways to reach a broader base of users and meet government or corporate requirements.
- The Cisco AS8100 also supports the insertion of metadata into a Windows Media or Flash stream. This
 metadata can be statistics, URLs for advertisements, or other information. The solution also supports the
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 advertisements, or other information.

Features of Cisco AS8100

Table 1 lists the features and benefits of the Cisco AS8100.

Table 1. Features and Benefits of Cisco AS810	0
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Feature	Benefit
New in Cisco Media Processor Core Software Version 5.5	 SCTE 35 pass-through, making automated ad insertion even easier Integration of Verimatrix content protection for Apple[®] iOS Support for closed captioning in Smooth Low Latency mode Simple Network Management Protocol Version 2 (SNMPv2), with support for all channels and improved alarms and reporting
Ultra-high density	 Exceptional adaptive experience Eight streams out Integrated Linear Time Code Reader (LTC) that reduces need for "Little Red" device or other time code reader
Advertising and monetization	 Automated ad insertion with playlists generated by playout servers Support for slate insertion to remove broadcast ads Ability to remonetize video with Internet ads for browser, mobile, and set-top box

Feature	Benefit
	 Full support for ABR streaming: HTTP Live Streaming to iPhone[®] and iPad[®] Microsoft Smooth Streaming, including support for H264 PlayReady DRM, enabling secure live publishing solutions Adobe HTTP Dynamic Streaming, with built-in content delivery network (CDN) authentication Support for Low-Latency Live Smooth Streaming and Multilanguage Smooth Streaming Added support for distribution format exchange profile(DFXP), providing industry-standard solutions for
Multiencoder synchronization	 subtitling Smooth and Flash streams Allocate two or more encoders to a single event, and generate up to eight or more streams per processor, providing multiple available bitrates Synchronize discrete encoders on frame boundaries, eliminating pauses and skips when switching between streams on different encoders Cisco AS8100 is ideal for back-up, failover, and recovery

Specifications of Cisco AS8100

Table 2 lists the specifications of the Cisco AS8100.

Table 2.	Specifications of Cisco AS8100
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Inputs	
Video	NTSC and PAL
High-definition	HD-SDI: SMPTE 292/296 (BNC connector)
Standard-definition	 SD-SDI: SMPTE 259 (BNC connector) Composite (through one locking BNC) Component (through three locking BNCs) S-Video (through two locking BNCs)
Audio	 Four stereo pairs over serial digital interface (SDI) embedded (BNC) Stereo Balanced Audio (through two locking XLR connectors) Audio Engineering Society and stereo through locking XLR
Codecs	
Windows Media	 Smooth Streaming to IIS server (H.264 and VC-1) H.264 PlayReady DRM support Windows Media 9 (WMV3): Simple and Main profiles VC-1 (WVC1): Simple, Main, and Advanced profiles Windows Media Audio and Audio Professional VC-1 and Windows Media ASF file (.wmv) VC-1: Push or Pull mode from encoder
H.264 Flash	 Dynamic Flash streaming to Flash Media Server Real Time Messaging Protocol (RTMP) stream over TCP to Flash Media Server H.264/AVC: Baseline, Main, and High profiles AAC audio (low complexity, HE-AAC v1, and HE-AAC v2)
H.264 Multicast MPEG-2 Transport Stream	 Standard or adaptive transport stream Ability to start or stop archive while encoder is running
H.264 iPhone [®] and iPad [®]	 H.264/AVC: Baseline AAC audio (low complexity, HE-AAC v1, and HE-AAC v2) Integrated iPhone[®] segmenter: Streams transport stream segments directly to web server
Third-Generation Partnership Project (3GPP)	 H264/AVC Baseline AAC audio (low complexity, HE-AAC v1, and HE-AAC v2) H.263 Profile 0,3; Levels 10, 20, 30, and 45 AMR-NB Audio Real Time Streaming Protocol (RTSP), Real-Time Transport Protocol (RTP), and Secure Device Provisioning (SDP) output Raw RTP output

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Control	Remote web-based GUI
	LCD front panel
	Customizable encoding templates
	Local user interface
	• SNMPv2
	XML Simple Object Access Protocol (SOAP) messaging service
Processing	
Preprocessing	Scaling
	Cropping
	De-interlacing
	Inverse telecine
	Adaptive image filtering
Certifications	
Safety	• UL 60950-1:2003
	• CAN/CSA—C22.2 no. 60950-1-03
EMC	FCC (CFR 47, Part 15) Class A
	CE marking
	C-Tick: According to AS/NZS CISPR 22:2009
Physical and Power	Dimensions (H x W x D): 1.72 x 17.0 x 18.21 in. (4.37 x 43.18 x 46.25 cm) (1 rack unit [1RU])
-	Power: 100-240 full range, 290W
	Connectivity: Two 10/100/1000BASE-T Ethernet
Ambient temperature	● Operating temperature: 32 to 113年 (0 to 45℃)
	 Nonoperating (storage): 14 to 140 𝓕 (-10 to 60℃)
Relative humidity	Nonoperating: <95% noncondensing



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