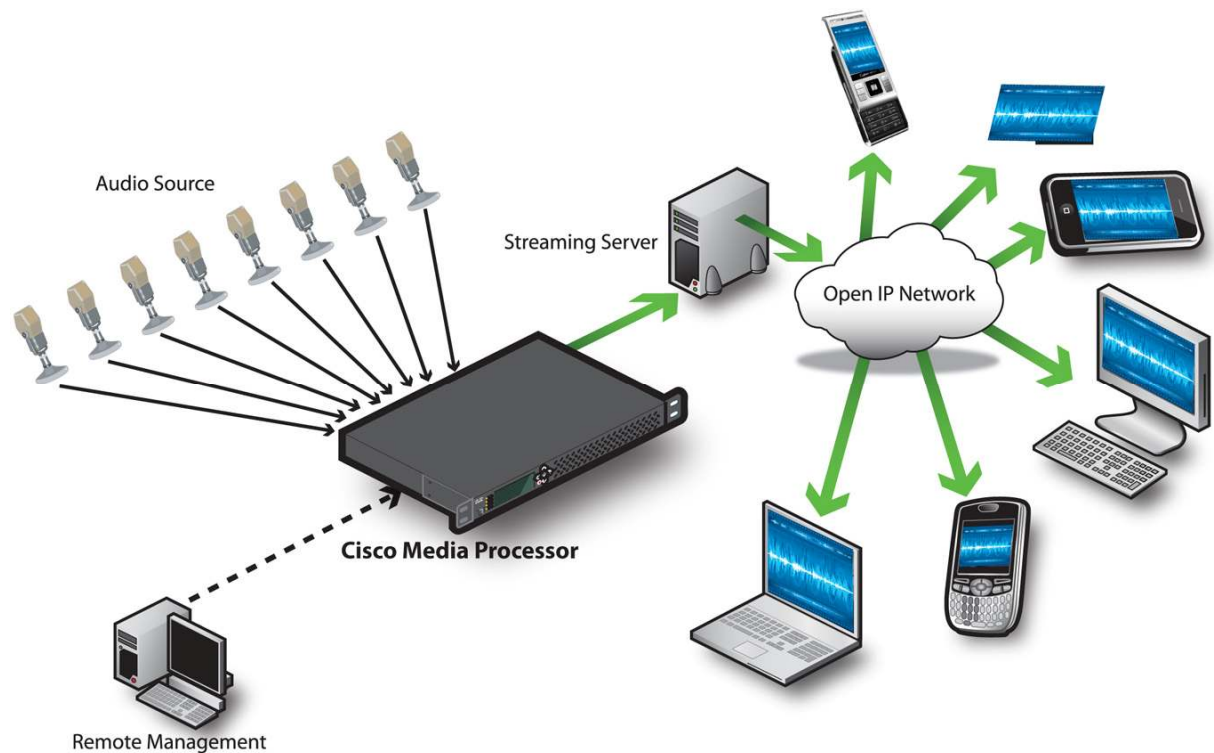


Cisco AS80 Series Audio Processor

The Cisco® AS80 Series Audio Processor (Cisco AS80 is a professional, multichannel audio streaming encoder that delivers a robust, easily managed solution for applications such as live music or sports streaming, Internet radio, voice, and multiple-language broadcasts. The Cisco AS80 supports delivery to multiple devices, including Third-Generation Partnership Project (3GPP) and Apple® iOS devices.

Built on the award-winning Cisco AS Series Media Processor platform, the Cisco AS80 delivers a flexible, multiformat, and scalable solution to meet your audio streaming needs. With eight audio channels packed into a one-rack-unit (1RU) form factor, the Cisco AS80 brings professional, cost-effective, and efficient live audio streaming to the market. If you are looking to stream multiple channels of live audio, you are no longer limited to PC add-in cards that deliver a single channel of audio per card. Now a single Cisco AS80 supports up to eight input channels, with the ability to output up to six streams per channel, for a total of 48 simultaneous high-quality, multiformat streams. Like the rest of the Cisco AS Series Media Processor portfolio, the Cisco AS80 features our award-winning web-based user interface and professional management and monitoring.

Figure 1. The Cisco Media Processor with Cisco AS80 Series Audio Processor



Protect Your Infrastructure Investment

Cisco AS80 is a software solution that runs on high-performance industry-standard hardware, and it is easily upgradable. In addition, the Cisco AS80 platform provides the reliability and robustness that comes only with a complete, easily deployed solution. You can also upgrade the Cisco AS80 to support new codecs or streaming servers. You do not need to replace hardware every time your needs change.

Audio Features of Cisco AS80

The Cisco AS80 builds on the advantages of the Cisco AS Series Media Processor portfolio with robustness, format flexibility, manageability, and great quality; in addition, it adds dense, multichannel audio support. It offers the following:

- Support for iPhone® audio-only stream output, with support for static image
- Preset management
- Enhanced event logging
- Ability to configure with four digital advanced encryption standard (AES) channels
- Up to six output streams per input channel, for a maximum of 48 simultaneous output streams
- Ability to mix and match output formats from the same input channel
- Ability to stream to virtually any type of media server and device
- Built-in content delivery network (CDN) authentication for Flash and Windows Media streams
- Scheduling for one-time or recurring events
- Ability to easily manage the encoder through a simple web GUI, or XML Simple Object Access Protocol (SOAP) messaging
- Space-saving 1RU form factor
- Ability to archive output streams

Cisco Media Processor	
Server	Device(s)
Windows Media Server	PCs Windows Mobile Phones Smartphones Feature Phones
Flash Media Server	PCs Phones running Flash Lite 3.0 Smartphones Feature Phones
IIS, Apache	iOS devices, Mac
Icecast/Shoutcast & Darwin/Real Media Servers	iOS devices BlackBerry & all MP3 devices
Darwin/Real Media Servers	Smartphones, including Android & BlackBerry Feature Phones

Cisco AS80 Audio Specifications

Input	<ul style="list-style-type: none"> • Eight mono analog XLR connectors (can be configured as stereo pairs) or <ul style="list-style-type: none"> • Four digital stereo AES or European Broadcasting Union (EBU) XLR connectors
Output	Mono or Stereo
Output Stream	<p>Windows Media</p> <ul style="list-style-type: none"> • Windows Media Audio • Windows Media Audio Professional <p>Flash</p> <ul style="list-style-type: none"> • AAC, HE AACv1, HE AACv2, and LC AAC • MP3 audio <p>Icecast and Shoutcast</p> <ul style="list-style-type: none"> • MP3 audio <p>Darwin</p> <ul style="list-style-type: none"> • AMR • AAC/HE AACv1/HE AACv2/C AAC <p>Microsoft Internet Information Server (IIS) or Apache</p> <ul style="list-style-type: none"> • iPhone® audio-only output support <p>Output: Archive</p> <ul style="list-style-type: none"> • Archive to local hard drive or network drive
Audio Parameters	<p>Audio Gain Levels</p> <ul style="list-style-type: none"> • +60 to -60 dB per channel software gain • Dynamically adjust gain while streaming <p>Sampling Frequencies</p> <ul style="list-style-type: none"> • 8 to 48 kHz (dependent on codec) <p>THD and Noise</p> <ul style="list-style-type: none"> • <0.002% @ 1 kHz with 48-kHz sampling <p>Frequency Response</p> <ul style="list-style-type: none"> • <0.25 db; 20 Hz to 20 kHz <p>Control</p> <ul style="list-style-type: none"> • Remote web-based GUI • LCD front panel • Customizable encoding templates • Local user interface • XML Simple Object Access Protocol (SOAP) messaging • Simple Network Management Protocol Version 2 (SNMPv2)
Certifications	<p>Safety</p> <ul style="list-style-type: none"> • UL 60950-1:2003 • CAN/CSA—C22.2 no. 60950-1-03 <p>EMC</p> <ul style="list-style-type: none"> • FCC (CFR 47, Part 15) Class A • CE marking
Physical and Power	<p>Dimensions (H x W x D): 1.72 x 17.0 x 18.21 (4.37 x 43.18 x 46.25 cm) (1RU)</p> <p>Power: 100-240 VAC full range, 225W (1RU)</p> <p>Connectivity:</p> <ul style="list-style-type: none"> • Two 10/100/1000BASE-T Ethernet • One 10/100BASE-T Ethernet <p>Ambient temperature:</p> <ul style="list-style-type: none"> • Operating temperature: 32 to 113°F (0 to 45°C) • Nonoperating (storage): 14 to 140°F (-10 to 60°C) <p>Relative humidity</p> <ul style="list-style-type: none"> • Nonoperating: <95% noncondensing



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