

comboSwitch

Media Encoder

KEY FEATURES

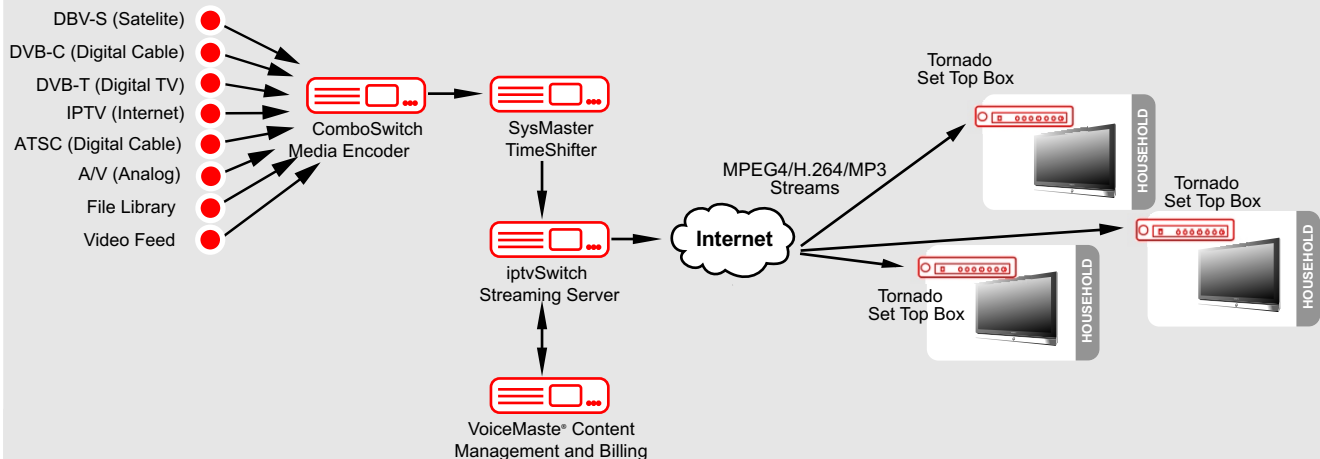
- Real-time Encoding of many Video Streams
- NTSC, PAL and SECAM Support
- Support for MPEG4 and H.264 Video Encoding
- Multiformat Stream Transcoding
- Direct Transcoding of Satellite and Cable Feeds
- Support for Multiple Streaming Servers
- Web-Based Remote Management
- Integrated IPTV Delivery Solution

Product Overview

comboSwitch Media Encoder is a robust and scalable headend encoder/transcoder designed for implementation in IPTV, Video-on-Demand, Audio-on-Demand, and Pay-per-View infrastructure. The product receives audio and video feeds from multiple sources and performs stream encoding or transcoding to MPEG4, H.264 or MP3 formats. comboSwitch easily integrates with SysMaster's VoiceMaster® Content Management and Billing, iptvSwitch Streaming Server and Tornado Digital Media Center into a fully integrated IPTV delivery solution.

COMBOSWITCH MEDIA ENCODER

NETWORK DIAGRAM WITH COMBOSWITCH



comboSwitch

Media Encoder

Real-time Encoding of many Video Streams

Depending on the compression method, comboSwitch Media Encoder can encode many video streams in real-time. Utilizing MPEG4 compression, the product can encode many video streams. Alternatively, comboSwitch can encode one video stream in the newer H.264 format, which is more complex and demands more CPU resources. Video streams are delivered to comboSwitch via Audio/Video RCA, S-Video, Component Video, Component Audio, DVB-S, DVB-C, DVB-T, HDTV-T, HDTV-C, and HDTV-S interfaces.

NTSC, PAL and SECAM Support

comboSwitch Media Encoder is compatible with all major television broadcasting standards, including NTSC, PAL, and SECAM. The product also supports a number of PAL variations, including the more common B and G, and the less common I, D, K, 60, M, and N.

Support for MPEG4 and H.264 Video Encoding

comboSwitch Media Encoder supports both MPEG4 and H.264 video compression, enabling the delivery of high quality video streams over broadband networks with limited bandwidth. The product can generate MPEG4 and H.264 compressed video streams requiring as low as 350Kbps bandwidth per stream at 640x480 VGA resolution. Such low bandwidth requirements enable providers to deliver high quality TV and video streams to subscribers over standard DSL or cable lines.

Multiformat Stream Transcoding

comboSwitch Media Encoder supports transcoding of the most popular audio and video formats. The product can receive feeds in MP3, WMA, AVI, WM9, and MPEG2 formats and transcode them to MPEG4 or H.264 video, or MP3 audio formats, thereby reducing bandwidth requirements per stream.

Direct Transcoding of Satellite and Cable Feeds

Service providers with existing satellite or cable infrastructure can easily upgrade to MPEG4 or H.264 compression with minimal infrastructure changes. comboSwitch Media Encoder offers on-board transcoding capabilities which allow it to convert directly MPEG2 encoded satellite or cable feeds into MPEG4 or H.264 compressed streams.

Support for Multiple Streaming Servers

In a typical WAN environment, a single comboSwitch Media Encoder can upload audio and video streams to multiple streaming servers. For each streaming server and each stream, comboSwitch utilizes UDP Unicast or TCP distribution. The number of streaming servers that comboSwitch can support depends on the number of streams per server and the bandwidth per stream.

Web-Based Remote Management

comboSwitch Media Encoder offers convenient configuration and maintenance via a GUI console. Administrators can securely login to the console via a web browser and perform all necessary tasks remotely. That feature enables providers to easily outsource product administration to third parties and minimize operational costs.

Fully Integrated IPTV Delivery Solution

Providers who want to offer voice, video and data services but want to minimize equipment integration costs will certainly appreciate the comboSwitch Media Encoder. The product easily integrates with SysMaster's VoiceMaster® Content Management and Billing, iptvSwitch Streaming Server and Tornado Set Top Box into a fully integrated solution for delivery of IPTV, Video-on-Demand, Pay-per-View, Audio-on-Demand, Online Radio, and other triple play services.



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