The TXS 8600 powered by Elemental, is a live over the top (OTT), adaptive bitrate (ABR) transcoder that provides high-quality audio and video transcoding for multi-screen video applications. The system merges the performance benefits of massively parallel hardware, with the flexibility of intelligent software to provide unprecedented price/performance transcoding. By harnessing the power of the latest parallel processing architectures, the TXS 8600 offers greater density and throughput than traditional CPU based solutions.

The TXS 8600 delivers simultaneous conversion of multiple HD and SD video streams for an array of devices including TVs, PCs, tablets, and mobile phones; ideal for content producers and distributors with large-scale encoding and transcoding applications. The TXS 8600 is easy to install, configure and integrate into new media and broadcast production workflows by utilizing built-in API’s and system management protocols.

**EXPERIENCE THE BENEFITS**

- Transcode live broadcasts for live delivery to over the top applications, such as web and mobile devices
- Expand customer reach by delivering content beyond traditional distribution models, like Xbox and Roku
- Live stream important world events or special company functions without the need for complex traditional broadcast equipment
- Remote learning and education by providing live classes on the web and mobile devices
- Monetize additional revenue from advertising by delivering content to more viewers on devices beyond the traditional television

**FEATURES**

- Simultaneously transcode up to twelve 1080p streams, 24 720p streams, or a vast array of ABR outputs
- Deliver video to any screen, at any time with support for adaptive bitrate streaming protocols which include Apple HLS, Adobe HDS, RTMP, Microsoft Smooth, MPEG-DASH and more
- Scalable, reliable architecture uses a reduced hardware footprint and easy integration with existing workflows
- Universal input support available for all common broadcast, editing, and user generated content formats
- Intuitive and easy to use web UI along with REST/XML API’s, and SNMP for system management
Enhance the experience of taking in a live game at the ballpark with on demand instant replays streaming over local WiFi to your fans mobile devices. The TXS 8600 live video processing system provides faster than real-time, high-quality video encoding for multi-screen video applications.

Provide instant replay to your fans within seconds of completion of the play. Give them the ability to view instant replays from multiple angles and perspectives. Give fans an interactive experience above and beyond what they could get at home on television broadcast.

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**SPECIFICATIONS**

**SUPPORTED INPUTS**
- ASI (up to 3)
- IP UDP/RTP/HLS/RTMP (MPEG-TS)
- SD, HD, 3G SDI (up to 8) with Upstream Router Control

**VIDEO & AUDIO OUTPUT FORMATS**
- Video:
  - Apple ProRes 422 (up to HQ)
  - AVC/H.264 (Baseline, Main, High)
  - HEVC/H.265
  - MPEG-2 4:2:0, 4:2:2
  - VC-1 (Simple, Main Advanced)
- Audio:
  - AAC-LC, AAC-HEv1/2
  - AC-3 (Dolby Digital), AC-3 Passthrough
  - Dolby E Passthrough
  - DTS Express
  - E-AC-3 (Dolby Digital Plus), E-AC-3 Passthrough
  - PCM (AIFF or WAV)
  - WMA2

**OUTPUT TARGETS**
- QuickTime Self-Contained (.mov)
- Save as File to Local or Network Storage
- TCP/IP
- UDP Unicast or Multicast
- Ultraviolet (CFF, UVU)

**SYSTEM CONTROL**
- Web-Based User Interface
- Elemental Conductor Live
- SNMP (Control and Status)
- REST XML API
- System Resource and Statistics Monitoring
- Notifications and Alerts
- Automated Load Balancing
- Event Prioritization and Planning
- Multiple Authentication Tiers
- Video and Audio Preview

**IMAGE PROCESSING**
- Adaptive Quantization
- AFD-Driven Output Scaling
- Anti-aliasing Scaler
- Deblocking Filter
- Frame Rate Interpolation
- Inverse Telecine Support
- Caption Extraction and Passthrough Lanczos Scaling
- Logo Insertion
- Look Ahead Rate Control
- Motion Adaptive Deinterlacing
- MPEG-2 Error Concealment
- Noise Reduction
- Scene Change Detection

**OTHER FEATURES**
- Ad Avail Blanking and Black-Out Capability
- Audio Channel Mixing
- Audio Loudness Management (CALM Compliant)
- Blurred-In Timecode
- Comprehensive Encryption / DRM Support Forensic
- Watermarking
- Integrated CDN Support
- Multiple Audio Tracks (Languages, Surround, SAP)
- Nielsen ID3 Support
- Open Caption Support
- SCTE-35 and SCTE-104 Support
- Support for Auxiliary Data (EBIF / KLV/V-Chip / CGMS-A)

**PHYSICAL & POWER**
- 1RU
- Linux CentOS
- Hot swappable dual power supplies
- Up to 6 Gigabit Ethernet ports
- 500 GB RAID-1 storage