TITAN Live

Real-time IP-based transcoder for multi-screen delivery

Increase content value by transcoding for any network

TITAN Live is a real-time multi-channel/format IP-based transcoder for multi-screen delivery (TV, Mobile, and Web). With the support for various encapsulation formats, TITAN Live revolutionizes live content delivery by allowing video service operators to repurpose content over numerous devices such as smartphones, tablets, PCs or web players while maintaining pristine video quality.

Featuring cutting edge technology, 7-RU TITAN Live can ingest SD/HD channels to simultaneously produce multiple streams in real-time and deliver them to streaming/ adaptive streaming networks.

TITAN Live can run on the same platform as TITAN File, the ATEME file-based solution for mass content throughput. With this live/file-based convergence on a unique platform, operators can streamline their operational workflow and increase content value within a multi-screen delivery.

KEY FEATURES

- High density multi-profile transcoder (up to 360SD or 90HD)
- MPEG-2/MPEG-4 SD/HD Live inputs
- Built-in supervision for N+M redundancy management
- Compliant with Adobe®, Apple®, Google®, Microsoft® environments
- Ad insertion (SCTE35) support

BENEFITS

- Produce pristine video quality over the lowest bitrates
- Simultaneous synchronized outputs
- All-in-one solution increasing operational efficiencies of IP-based workflows
- Proven interoperability with Origin Servers and Content Delivery Networks
- Convergence with file-based workflows
- Future proof solution (software-based allowing features update)

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TITAN
Live

VIDEO PROCESSING

Video Encoding
- H.264 Baseline/Main/High Profile
- MPEG-2 Simple/Main/4:2:2 Profile

Resolutions/Frame Rates
- Resolutions: From 176x144 up to 1920x1080
- Frame rates: 1 to 60 fps
- Still picture mode support
- Video resolution pass-through

Video Processing
- Fixed/variable GOP size
- Automatic I frame insertion
- Automatic scene cut detection
- CBR, VBR and Capped VBR
- Linear and nonlinear spatial filtering
- Logo insertion
- Dynamic Aspect Ratio pass-through support

Video preprocessing/editing
- De-interlacing/Denoising filtering
- Image cropping/resizing
- 3:2 pulldown/Inverse telecine
- Frame rate conversion/decimation

Encoding bit rate
- 16 Kbps to 10 Mbps per channel

Data/Subtitling/Closed Captioning
- CC: SCTE 20, ATSC (CEA 608, CEA 708), NA DBS Line 21, Divicom
- DVB Subtitles
- DVB Teletext
- Digicipher II (conversion to DVB Subtitles)
- SCTE35 pass-through

AUDIO PROCESSING

Compression formats
- MPEG-1 Layer II
- AAC-LC, AAC-HEv1, AAC-HEv2
- Sampling frequency: 32, 44.1, 48 KHz
- Dolby® Digital, Dolby® Digital Plus

Audio preprocessing/editing
- 5.1 to stereo downmix

INPUT/OUTPUT SPECIFICATION

Input protocol
- Video: MPEG-2/MPEG-4
- Audio: MPEG-1 Layer II, AAC, AC3
- Transport: MPEG-2 TS (SPTS/MPTS)

Streaming
- MPEG-2 TS
- IGMPv3 (SSM input & output)
- RTMP

Adaptive streaming
- Apple® HTTP Live Streaming
- Microsoft® Smooth Streaming (fragmented MP4 PIFF format)
- Manifest files/Variant playlists creation

Transport protocol
- RTP/UDP streaming
- FTP
- HTTP chunk transmission (PUT or POST)

DRM
- Interface Verimatrix® & Conax® DRM servers
- Apple® HLS content protection
- Microsoft® PlayReady

Rearview of TITAN Chassis

CONFIGURATION / MANAGEMENT

Blades
- Up to 18 hot plug blades
- Fully scalable system
- Built-in redundancy management
- Built-in supervision

Power Supply
- 4 hot-plug PSUs (92% efficiency)
- 3+1 Redundancy

Ethernet Output Interfaces
- 2 redundant Ethernet switches with 2x3 independent Gigabit Ethernet ports (up to 10Gbits) for data traffic and/or management
- Network full configuration (VLAN, spanning tree)

System Management
- Web-based user's interface
- N+M redundancy
- Logs & alarms events
- SNMP SW & HW supervision
- SNMP traps
- Automatic load balancing
- Premium channels management

PHYSICAL

- Dimensions 19" 7-RU: 482x311x740mm / 19"x12.25"x29.1"
- Weight (net) 42 kg / 92.5 lbs
- Weight (fully loaded) 126 kg / 277.7 lbs

ENVIRONMENTAL

- Cooling Air flow from front to rear
- Operating Temperature 5 to 40 °C / +41 to +104 °F
- Storage Temperature -20 to 70 °C / +32 to +158 °F
- Operating humidity 5 to 90% (non condensing)
- Input voltage 220VAC, 50/60 Hz
- Power consumption (per blade): 300W (450W at peak)
- Electrical compliance and safety CE (UL, FCC, RoHS)

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