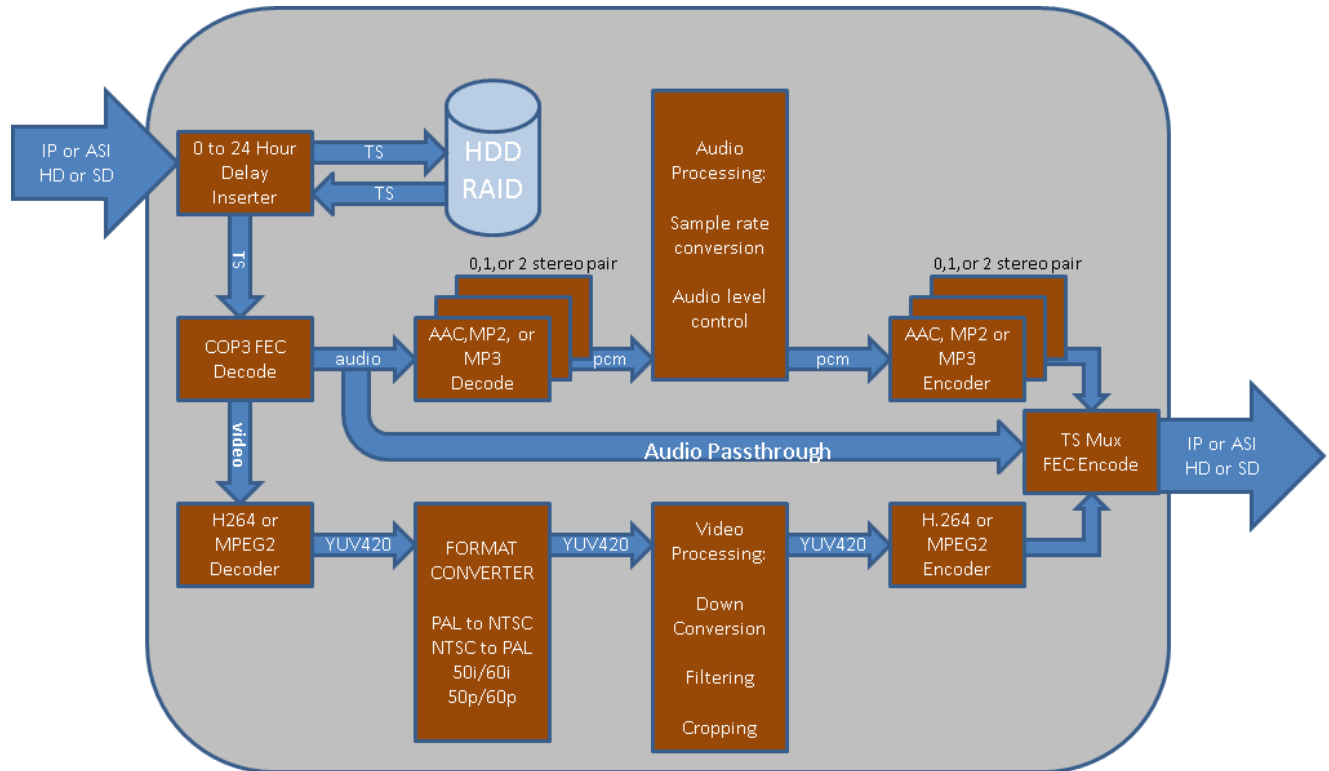


PRESTO T301 Combination A/V Transcoder and Format Converter

Real Time Processing of 8 SD or 2 HD Channels per 1U



igolgi provides an innovative integrated solution that combines many common functions for real time A/V workflows. The PRESTO T301 provides a 16-20X space and power efficiency gain compared to existing solutions. 8 SD channels or 2 HD channels is supported in a 1U form factor.

igolgi's solution uses high quality igolgi VELOCE MPEG2 and H.264 codecs, integrated with a 3 frame, motion compensated programmable de-interlacer/format converter. The result is stunning picture quality and full control of your workflow.

Key Features:

- MPEG2/H.264 to MPEG2/H.264 transcoding
- Innovative compression algorithms with best in class performance
- Motion Compensated High Quality Format Conversion
- HD to SD Conversion
- Delay Inserter (option)
- Multi-channel Audio support
- Audio level control (option)
- Pro MPEG FEC COP3 (option)
- Flexible architecture for optimum system installations matched to channel needs



SPECIFICATIONS

Compression Standards

Video

MPEG-2

Simple, Main, and 422P Profile
up to High Level

MPEG-4 AVC/H.264

Baseline, Main, and High Profile
Up to Level 4.2 HD

Audio

MPEG-1 layer 2

MPEG-2 layer 3 (mp3)

MPEG2/MPEG-4 AAC-LC

Dolby Digital E, AC-3
pass through

Sampling Freq 32, 44.1, 48 KHz

Resolutions and Frame rates

Flexible – Mobile to HD 1080p60

Eight SD or Two HD Channels per 1U

Mix and match resolutions

Example Common Resolutions :

576i and 480i x 720, 544 and 352 pixels @ 25, 29.97
and 30 Hz

1080i x 1920, 1440, 1280 and 960 pixels @ 25, 29.97
and 30 Hz

720p x 1280, 960 and 640 pixels @ 23.976, 50,
59.94 and 60 Hz

1080p x 1920,1440,1280, and 960 pixels @ 23.976,
50, 59.94, and 60 Hz

Video Processing

Format Conversion

PAL/NTSC to NTSC/PAL

50i/25p to/from 60i/30p

50p to/from 60p

Cropping/Scaling (manual or AFD)

Single in – multi-out (option)(e.g. PIP)

Noise Filtering (option)

0 to 24 hour delay inserter (option)

Transcoding

Full decode/full re-encode mode

Scene Change Detection and I frame
insertion

Fixed and Dynamic GOP Structures

Rate Control

CBR

VBR

Capped VBR

Single and multipass modes

Input/Output Bitstream Formats

IP/UDP/MPEG2-TS

IP/UDP/RTP

IP/UDP/RTP/MPEG-TS

MPEG-TS (ASI)

Input-Output Interfaces

IP

ASI (option)

Configuration and Management

Embedded web-server interface

SNMP MIB (option, customizable)

Xeon Platforms

Xeon 55XX

Xeon 56XX

Blades, 1U, 2U

High efficiency power (option)

Redundent power (option)

Ordering Information

Presto – SD (1 to 8 channel)

Presto – HD (1 or 2 channel)

