

Digital Headend/CATV



SVT Series MPEG-2/4 Video and Audio Transcoding

- Seamless real time transcoding of television programming
- Input format may be MPEG-2 or MPEG-4 in SD or HD and user may select any of these formats for output
- Applications include conversion of digital delivery formats to match distribution system requirements
- Can be remotely managed and monitored via Pico Digital's Network Management System (XNMS)
- Performs simultaneous real-time transcoding of 2 or 4 programs
- Integrated web server allows local or remote access from a PC with standard Internet browser
- Internal web server pages provide simple, easy navigation of all status and setup parameters
- Support for external DC redundant powering

Specifications

ASI INPUTS/OUTPUTS

Connections	4 Inputs and 4 Outputs
Connector	4 x 75Ω BNC
Packet Format In	188/204 byte
Packet Format Out	188 byte
Syntax	SPTS or MPTS

IP GbE INPUTS/OUTPUTS

Number of Ports	1 Input and 1 Output GbE RJ45 port
Connector Type	RJ45 10/100/1000 - Auto Negotiate
Addressing	Unicast and Multicast
MPEG Transport	SPTS/MPTS (ITU13818-1)
IP Encapsulation	1 to 7 TS/IP
Input Format	UDP
IGMP Compatibility	Version 1, 2 & 3

TRANSPORT STREAM PROCESSING

- Detailed bit rate measurement of incoming services
- PID Filtering/remapping capabilities
- PID Pass-through for those programs that do not need processing
- Ancillary Signal Pass-through for AFD, DVB Subtitles, DVB VBI Data (EN301775), North American VBI (SCTE 127), Closed Captioning (EIA 708), Teletext, SCTE3

MANAGEMENT

Connector	RJ-45 10/100 - Auto Negotiate
Protocols	HTTP, TELNET, and SNMP
User Interface	Front panel, web/TELNET user interface, remote management through XNMS

CONTROL

Configuration and Content Control via XNMS.
Real time triggers via SCTE 35 or XNMS advanced scheduling.

TRANSCODER

Up to 4 Multi-format MPEG2/H.264 integrated Decoder/Encoder pairs

Profiles	H.264 up to HP / L4.1, MPEG2 up to MP@HL
Video Formats	1080i @ 25 Hz, 29.97 Hz, 30 Hz 720p @ 50 Hz, 59.94 Hz, 60 Hz 480p @ 59.94 Hz, 480i @ 29.97 Hz 576 @ 25 Hz

Audio Services	Up to 2 per transcode
Audio Pass Through & Transcode	MPEG1/2 L1, L2; MP3; AAC; Dolby® Digital AC-3

Video Processing	Scene Detection Fade Detection De-blocking filter Max 25 Mbps
Video Bitrate	CBR or capped average VBR
Video Output	H.264 or MPEG2
Codec	Letterbox or center-cut
Display Mode	

DIMENSION

HxWxD	1RU, 1.75" (4.4 cm) x 17.4" (44.2 cm) x 17.5" (44.5 cm)
Power	100-240 AC 50/60 Hz 75W

ENVIRONMENTAL CONDITIONS

Operating Temp	0° to 45°C
Storage Temp	-40°C to 65°C
Relative Operating Humidity	<95% (non-condensing)

Ordering Information

SVT-1	1 Program Transcoder-ASI
SVT-2	2 Program Transcoder-ASI
SVT-4	4 Program Transcoder-ASI
SVT-6	6 Program Transcoder-ASI

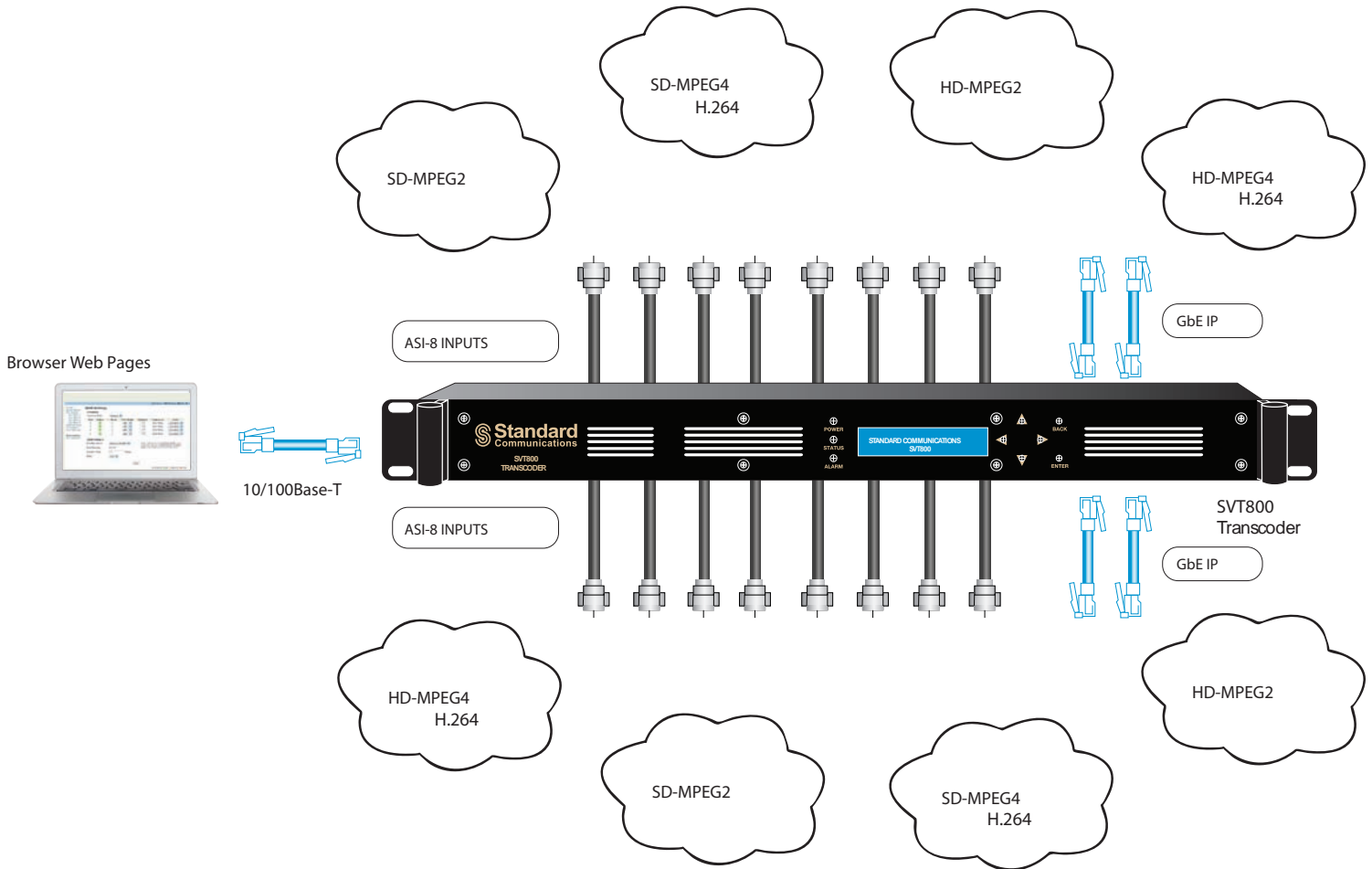
For IP In/Out, add -IP suffix to abTHove (future feature)

X-PS External Redundant Power Supply

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Application Diagram

Any Input to Any Output



Seamless Real Time Transcoding

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