

SVT Series

MPEG-2/4 Video and Audio Transcoding



Features

- Seamless real time transcoding of television programming
- Input format may be MPEG2 or H.264, SD or HD with user selectable output formats
- Applications include conversion of HD originated content to add simultaneous SD services
- Performs simultaneous real-time transcoding of 2, 4, 6 or 8 programs (outputs 1HD or 2SD per block)
- Integrated web server allows local or remote access from a PC via standard Internet browser
- Web interface provide simple, easy navigation of all status and setup parameters
- Support for external DC redundant powering

SPECIFICATIONS

ASI INPUTS/OUTPUTS

I/O Proc Block	2x Inputs to 2x Outputs per processing block (up to 4 blocks)
Connector	75Ω BNC
Packet Format Input	188/204 byte
Packet Format Output	188 byte
Syntax	SPTS or MPTS (input & output)

IP GbE INPUTS/OUTPUTS (Future Implementation)

Number of Ports	1 Input and 1 Output
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	
PID Pass-through for non-processed programs	
Signal Pass-through	AFD, DVB Subtitles
	DVB VBI Data (EN301775)
	North American VBI (SCTE 127)
	Closed Captioning (EIA 708), Teletext, SCTE 35

MANAGEMENT

Connector	RJ-45 10/100BaseT - Auto Negotiate
Protocols	HTTP, TELNET, SNMP
User Interface	Front panel, web browser, TELNET

TRANSCODER

Processing Blocks	Dual channel, multi-format MPEG2/H.264 with integrated CODECs (up to 4)
Profiles	H.264 HiP/L4, MPEG2 MP@HL
Video Formats	1080i @ 29.97Hz, 30Hz 720p @ 59.94Hz, 60Hz 480i @ 29.97Hz
Audio Services	Up to 2 per transcode

Audio pass-through & Transcode	MPEG1 Layer II Dolby® Digital AC-3
Video Processing	Scene Change Detection Fade Detection De-blocking filter Max 25 Mbps
Video Bitrate	CBR or capped average VBR
Video Output CODEC	H.264, MPEG
Display Mode	Letterbox or center-cut, AFD pass-through

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

SVT200A	2 Channel Multi-Format Transcoder-ASI
SVT400A	4 Channel Multi-Format Transcoder-ASI
SVT600A	6 Channel Multi-Format Transcoder-ASI
SVT800A	8 Channel Multi-Format Transcoder-ASI

for IP In/Out, Remove ASI and add -IP suffix to above (Future Implementation).

X-PS	External Redundant Power Supply
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