

MPEG-2 < > H.264 HD/SD TRANSCODER

4x HD or 8x SD Video Programs



SVT Series Multi-Format HD/SD, MPEG2/H.264 TRANSCODER

- Seamless real time transcoding of television programming
- Input format may be MPEG-2 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 (from 1 to 4 blocks; outputs 1HD or 2SD per block)
- Integrated web server allows local or remote access from a PC with 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 (Firmware upgrade available soon)

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 for

AFD, DVB Subtitles, DVB VBI Data (EN301775), North American VBI (SCTE 127), Closed Captioning (EIA 708), Teletext, SCTE35

MANAGEMENT

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

TRANSCODING

Processing Blocks	Dual channel, Multi-format MPEG2/H.264 with integrated CODECs (up to 4)
Profiles	H.264 HP / L4, MPEG2 MP@HL
Video Formats	1080i @ 29.97Hz, 30 Hz 720p @ 59.94 Hz, 60 Hz 480i @ 29.97 Hz
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
Video Bitrate	Max 25 Mbps
Video Output	CBR or capped average VBR
Codec	H.264 or MPEG2
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

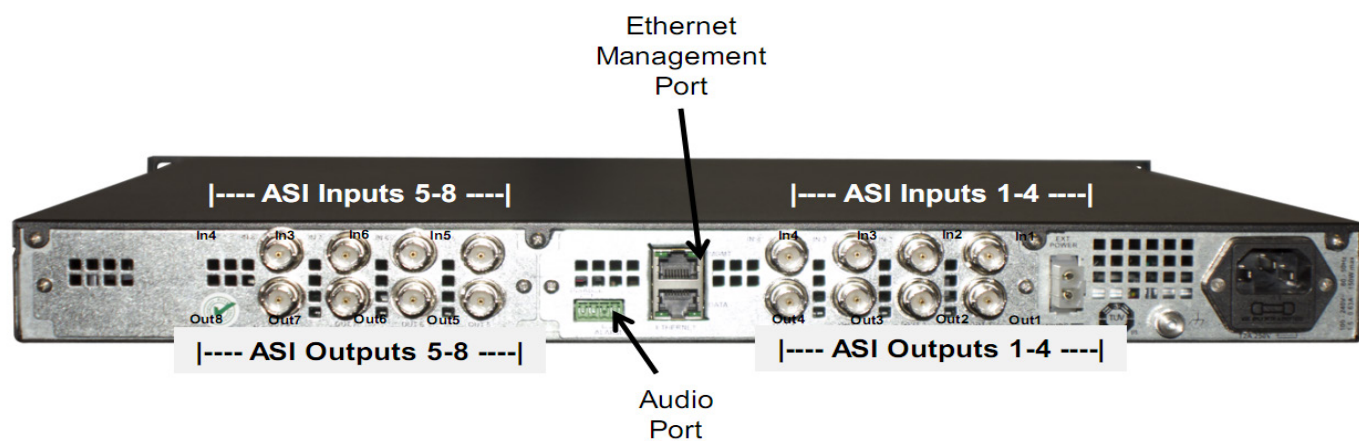
Operating Temp	0° to 45°C
Storage Temp	-40°C to 65°C
Relative Operating Humidity	<95% (non-condensing)

Specifications Subject to Change Without Notice

SVT Supported Transcodes

		OUTPUTS																		
		MPEG2								H.264/AVC										
		1920x 1080i	1280x 720P	640x 480P	720x 480i	704x 480i	640x 480i	544x 480i	528x 480i	480x 480i	1920x 1080i	1280x 720P	640x 480P	720x 480i	704x 480i	640x 480i	544x 480i	528x 480i	480x 480i	
INPUTS	H.264/AVC	1920x 1080i	Y			Y	Y		Y	Y					Y	Y		Y	Y	
		1280x 720P				Y	Y		Y	Y					Y	Y		Y	Y	
		640x 480P																		
		720x 480i				Y			Y									Y		
		704x 480i					Y			Y									Y	
		640x 480i																		
		544x 480i							Y											
		528x 480i								Y										
		480x 480i																		
		MPEG2	1920x 1080i				Y	Y		Y	Y		Y			Y	Y		Y	Y
1280x 720P					Y	Y		Y	Y			Y		Y	Y		Y	Y		
640x 480P																				
720x 480i								Y						Y						
704x 480i									Y						Y					
640x 480i																				
544x 480i																	Y			
528x 480i																		Y		
480x 480i																		Y		

Note: 1080i @ 29.97 or 30 Hz only; 720p @ 59.94 or 60 Hz only; 480i @ 29.97 or 30 Hz only



Ordering Information

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

- X-PS** External Redundant Power Supply