



SMP260T

Real-Time SD/HD Transcoder



Introduction

SMP260T is a professional transcoder that can transcode/transrate real-time up to 12 digital programs for all content contribution and distribution needs.

SMP260T offers service providers a cost-effective and scalable solution to repurpose their content from different sources and format to add digital content to their distribution network.

Order Information

Model	Modules Combination	Feature
STC2-12S	3xTC2-4S	12xSD transcoding and transrating to MPEG-2+MPEG1L2, 6 SD transcoding when HD inputs. (Downscaling)
STC2-6S	3xTC2-2S	6xSD transcoding and transrating to MPEG-2+MPEG1L2, SD input only.
STC4-12S/6H	3xTC4-4S/2H	12xSD or 6xHD transcoding and transrating to H.264+MPEG1L2
STC4-6S	3xTC4-2S	6xSD transcoding and transrating to H.264+MPEG1L2
STCSD-12SM	3xTCSD-4SM	12xSD transcoding and transrating to Low-bitrate H.264/MPEG-2+MPEG1L2/AAC

*SMP260T doesn't cover all Wellav's transcoding modules, please contact us for more support.

Features

- High density transcoding capability up to 12 programs.
- Comprehensive transcoding solution: SD/HD, MPEG-2/H.264.
- Transrating, rescaling, de-interlacing, frame rate conversion.
- Digital to digital decode and re-encode with minimum loss in video quality.
- PAL to NTSC (576i to 480i) mutual conversion.
- Supports CBR/VBR encoding.
- Re-multiplexing and cherry picking.
- Independent embedded ASI and IP I/O for different applications.
- Supports audio and subtitle pass through and synchronization.
- Supports EPG/EIT re-multiplexing. (optional)
- Configuration and monitoring programs via NMS, Web GUI or SNMP.
- High efficiency with low power consumption in 1 RU compact chassis.

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Specifications

Transcoding	
Video Transcoding: (CBR & VBR)	MPEG-2 MP@ML; MPEG-2 MP@HL; MPEG-4 AVC at MP@L3; MPEG-4 AVC at HP@L4
Aspect Ratio:	4: 3 or 16: 9
SD Resolution:	PAL (720x576) and NTSC(720x480);
Conversion:	aspect ratio; resolution, format, adding subtitle,
HD Resolution:	1080i(1920x1080); 720p(1280x720);
Conversion:	aspect ratio; resolution, format, adding subtitle
Audio:	Audio passthrough/transcoding
VBI/Subtitle:	PID passthrough
Video Input Bit-rate:	MPEG-2 SD: 2 Mbps ~ 15Mbps MPEG-2 HD: 10Mbps ~ 20 Mbps H.264 SD: 1 Mbps ~ 10 Mbps H.264 HD: 6 Mbps~20 Mbps
Video Input Bit-rate: (Premium)	MPEG-2 SD: 1.5 Mbps ~ 15Mbps H.264 SD: 0.8 Mbps ~ 9 Mbps
Video Output Bit-rate: (CBR & VBR)	MPEG-2 SD: 2 Mbps ~ 15 Mbps H.264 SD: 1 Mbps ~ 10 Mbps H.264 HD: 6 Mbps ~20 Mbps
Video Output Bit-rate (Premium): (CBR & VBR)	MPEG-2 SD: 1.5 Mbps ~ 15Mbps H.264 SD: 0.8 Mbps ~ 9 Mbps
Audio Formats:	MPEG-1 Layer II, AAC, Dolby Digital AC-3 Pass through
Re-multiplexing	
PID:	Re-mapping and Filtering
MPTS Output Synchronization	
Routing:	Any Input to Any Output

IP In/Out	
Interface:	1 x 1000 Mbps per port
IP Encapsulation:	MPEG TS over UDP/RTP
MPEG TS:	MPTS and SPTS
I/O Processing:	Up to 12 Streams, max at 72 Mbps per Streams
Addressing:	Unicast and Multicast
Management:	IGMPv2, IGMPv3
Forward Error Correction:	ProMPEG
ASI In/Out	
Interface:	4 BNC connectors (2 ASI inputs and 2 ASI outputs), 75Ω
MPEG Format:	188/204 Bytes
I/O Processing:	1 MPTS/SPTS per port, up to 100 Mbps per port
Management	
Interface:	100Base-TX, RJ45
NMS Support:	Yes
SNMP Support:	Yes
Web based NMS:	Yes
Physical & Environment	
Input Voltage:	90 - 260 VAC
Power Consumption:	Approx 100 W
Rack Space:	1 RU
Dimension (WxHxD):	480mm x 44mm x 440mm
Operating Temperature:	0°C to 50°C
Storage Temperature:	-40°C to 65°C
Relative Operating Humidity:	<95%
MTBF:	≥150000 hours