

Sumavision SDM2.0-X - High Quality H.265/H.264/MPEG2 4K HD Transcoding



Product Introduction

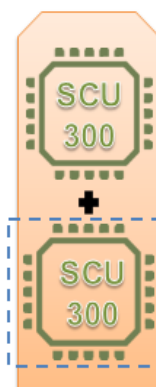
Based on SDM2.0 video processing platform, Sumavision release the new ASIC solution of transcoding that support HEVC/AVC UHD/HD format ---SCU300. The SDM platform is an ideal solution for transcoding and cluster management of SD, HD and UHD video through SCU200+SCU300 package. The converter also supports complex encapsulation applications for the delivery of both broadcast and next-generation multiscreen services with Sumavision's Media Gateway and Cluster Management

SCU300 module consists of transcoding streaming processing, streaming media gateway (xStream2300) and cluster management control system (xManager2000), and it can choose multiple devices to achieve encoding and transcoding function to multichannel video and audio or live stream according to the actual needs



Features

- Cluster transcoding enabled, maximum **6** modules per Chassis
- Live or Off-line files receiving
- Up to **6UHD/48HD/100SD*** services transcoding per chassis
- Video format: AVC/ H.264 , H.265
- Up to 4K/60p, 4:2:2, 10bit
- Audio format: MP2/AAC-LC,HE-AAC,HE-AAC V2/Dolby 2.0/5.1/Dolby Plus 2.0/5.1
- Multi-resolution: 4K, 1080P, 720P, 480P
- Support UDP-TS, HTTP-TS, HTTP-FLV, RTMP-FL, HLS, HDS, MPEG-DASH, Smooth Streaming, RTSP-RTP etc.
- 1+1,N+1, N+M backup solution
- Easy to use SNMP interface simplifies installation and remote management



PCIe/COMe:

4K, 1080P60, 1080I60, 720P, 720I, 480P 480I
Broadcasting Level
DMOS: less than 30
ASIC based, much more stability
Density : up to 50% more
4:2:0/ 4:2:2 10bit
Max. 150Mbps



	4K	HD
H.264	6 (P60)	48
HEVC	6 (P60)	48



Software & Hardware Specification

Hardware	
CX12	4 x GBE: Data I/O 1 x HDMI×1: Monitor 2 x USB: Authorization control/Keyboard/Mouse
SCU200B	ComE
CX13	2 x GBE: Data I/O
SCU300	ComE
Front Panel	5 x GBE: Data I/O 1 x GBE: Control
HardDisk	SSD x 2 (256G) Mechanical hard disk*
Streaming Processor	
Input	TS Over UDP (MPTS/SPTS) IGMPv1, v2, v3 PID self-adaption
Encode	YUV 4:2:0/ 4:2:2 10bit
Decode	YUV 4:2:0/4:2:2, 10bit 4K 30fps/60fps
Video Format	H.264 MPEG-4 AVC, H.265
Profile	MPEG-4 AVC: Baseline, Main, High HEVC: Baseline, Main10, High
Bitrate	800Kbps – 200Mbps
Rate Control	CBR, VBR
Resolution	96 x 96 to 1080p 4K: 4096 x 2160 60fps
Aspect Ratio	4:3 and 16:9
GOP	16-255
Audio Format	MPEG-1 LayerII/III LC-AAC (Optional) HE-AAC v1 (Optional) HE-AAC v2 (Optional) Dolby Digital (Optional) Dolby Digital Plus (Optional) AC-3 5.1 (Optional)
Subtitles	
DATA	CEA 608/708 closed captions pass-through DVB-Teletext, DVB-Subtitles pass-through WebVTT, SMPTE-TT DVB-Teletext pass-through Multiple audio tracks/languages
Stream Gateway (xStream2300)	

Input	UDP-TS, HTTP-FLV, HTTP-TS, RTMP, etc
Output	UDP-TS, HTTP-TS, RTMP-FLV, HTTP-FLV, RTSP-RTP, Smooth Streaming, HLS, HDS, MPEG DASH, etc.
No. of Services	Up to 600
Management (xManager2000)	
Control Port	2x GigE (primary/secondary)
Functions	Subnet management
	Task management
	Safety management
	User management
	Log management
	Alarm management
	Device management
Others	Logo Insertion
	OSD
	Ad Insertion
	PSI table re-configuration