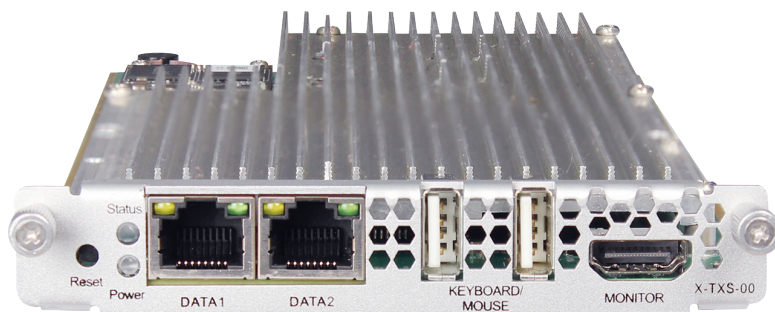


CX2-TXS-00

MPEG-2/H.264/H.265 Transcoder Module



INTRODUCTION

CX2-TXS-00 is an transcoder module that supports transcoding between different video compression standards such as H.265, H.264 and MPEG-2. The module has 2 GbE ports, 2 USB ports and 1 HDMI port. The GbE ports will be used for IP stream input and output while USB port and HDMI port will be used for OS installation. With this transcoder board, you're able to output programs with desired codec to adapt to various decoder terminals and/or further transmission. With enormous legacy devices in existing network, CX2-TXS-00 has been a perfect choice for streaming adaption between different devices.

KEY FEATURES

- H.264 to MPEG-2 up to 8 x HD* or 30 x SD* programs
- MPEG-2 to H.264 up to 6 x HD* or 15 x SD* programs
- Transcoding between MPEG-2/H.264/H.265, up to 1080P60
- Support HD to SD downscale
- Support Audio passthrough
- Seamlessly working with other 30+ modules on CMP platform for live content transcoding
- Flexible to support any new video compression standard by software upgrade

*: HD: 1080i29.97/30 SD:480i/576i29.97/30

TECHNICAL SPECIFICATIONS

Physical Ports	
Network	2 x RJ45 ports, 100/1000M
HDMI	1 x HDMI 1.4 port Connect to LCD Monitor
Audio	
Input Audio format	Mpeg-1 Layer II, AAC, AC-3
Output Audio format	Mpeg-1 Layer II, AAC, AC-3
Audio Process	Up to 4 audio pairs

Video	
Input Video Decoding	Video format: Mpeg-2/H.264/H.265 Video resolution: 576i25, 480i29.97, 720P50/60, 1080i25/29.97/30, 1080P25/30/50/59.94/60 Video bitrate: 1 to 40Mbps Network protocol: UDP, RTP, unicast, multicast
Output Video Encoding	Video format: Mpeg-2/H.264/H.265 Video resolution: 576i25, 480i29.97, 720P50/60, 1080i25/29.97/30, 1080P25/30/50/59.94/60 Video bitrate: 1 to 20Mbps Network protocol: UDP, RTP, unicast, multicast
Downscale	HD to SD video resolution
Closed Captions	CEA/EIA-708 Closed Caption passed through
DVB Subtitle	DVB subtitle passed through

TRANSCODING CAPACITY

PROCESSING CAPACITY	INPUT BITRATE (Mbps)	OUTPUT BITRATE (Mbps)	1080i (29.97 fps)	1080i(29.97 fps) to 720p(29.97 fps)	1080i(29.97 fps) to 480i(29.97 fps)	720p (29.97 fps)	720p(29.97 fps) to 480i(29.97 fps)	480i (29.97 fps)
MPEG-2 to MPEG-2	18	15	11	16		20		
MPEG-2 to MPEG-2 (SD)	18	4			25			
MPEG-2 (SD) to MPEG-2 (SD)	6+	6						30
MPEG-2 to H.264	18	5	6	15		15		
MPEG-2 to H.264 (SD)	18	2			12		14	
MPEG-2 (SD) to H.264 (SD)	6+	2						15
H.264 to MPEG-2	5	15	8	16		17		
H.264 to MPEG-2 (SD)	5	6			20		24	
H.264 (SD) to MPEG-2 (SD)	2	6						30
H.264 to H.264	5	5	5	13		16		
H.264 to H.264 (SD)	5	2			12			
H.264 (SD) to H.264 (SD)	2	2						14

ORDER INFORMATION

Model	Description
CX2-TXS-00	Transcoding module, MPEG-2/H.264/H.265 HD/SD, AC3/AAC/MPEG1L2