Niagara 8100 H.264/HEVC Series Video Processors

Overview

The Niagara 8100 series is a cost effective, highly reliable family of video processing equipment. These use the SCX Linux based software to enable a wide range of capabilities ranging from encoding to decoding to transcoding to recording all in one system! It is ideal for up to 4 inputs/outputs or up to 10 transcodes.

The 8100 can easily handle 4-5 HD services. Each service can have multiple outputs/destinations.

Easy to use

The web based GUI is very intuitive and we also create common configurations to get you up and running quickly. The more information we get the more set up we can do for you.

Ideal Markets

> Broadcasters

> Schools

> Corporations

> Government

> Hotels

Applications

> Streaming to CDNs; YouTube, FaceBook, etc.

> Decoding

> Encoding

> Recording streams

> Transcoding

Key Features

> 1 RU server with 2 NIC ports

> Browser based GUI management

> Excellent cost/performance ratio

> Wide range of input options

> Now supports decode

Niagara® Video Corporation

Delivering Video Whenever, Wherever

Niagara 8100 products

Models:

8100-H1	Single HDMI input Encoder/Transcoder
8100-H2	Dual HDMI input Encoder/Transcoder
8100-S1	Single SDI Input Encoder/Transcoder
8100-S2	Dual SDI input Encoder/Transcoder
8100-S4	Quad SDI Input Encoder/Transcoder
8100-D1	Single DVI-I Input Encoder/Transcoder
8100-D2	Dual DVI-I Input Encoder/Transcoder
8100-TR	Transcoder with IP Input and Output Encoder/Transcoder
8100-SX4	4 Channel Decoder/Transcoder/Encoder

Encoding/Decoding Formats:
Adobe® Flash® H.264 (RTMP and RTMPS)
Apple® HTTP Live Streaming (HLS)
Dynamic Adaptive Streaming over HTTP (MPEG-DASH)
MPEG 2 TS (UDP or RTP)
H.264 and HEVC codecs
RTSP, SRT and NDI

Transcoding:
Video Codec Inputs: MPEG-2, H.264 and HEVC
Audio Codec Inputs: MPEG-1 Layer II, AAC-LC, HE-AAC v1/v2, Dolby Digital (AC-3), Dolby Digital Plus (E-AC-3)
Transcoding Inputs: MPEG 2-TS, RTMP, RTSP, HLS, HTTP

Pre-Processing:
Adaptive de-interlacing
Video cropping and rescaling
Aspect-ratio conversion or pass-through
Frame rate down and up-conversion
Video preview
Logo & Slate insertion
Time code/Date&Time insertion
Closed-caption support

Size: 1 RU, 19"x1.75"x 19.8"
Storage: 500GB SSD
Additional storage available
Network: Dual Gigabit Ethernet ports
Power: Single 350W AC PS

Software:
SCX-L (SCX Linux version)
SNMP - monitoring
Web SDK (REST API)