Niagara® 9200 Digital Input Models

Encoding and Transcoding Systems – H.264 and MPEG-2

Now with support for HEVC up to 4K/UHD

Different models to fit a variety of needs.

The Niagara 9200 series is a high-density/high-performing multi-channel encoder/transcoder for service providers, broadcasters, and enterprises. The Niagara 9200 SDI input models support 4K, UHD, HD and/or SD SDI inputs with up to 8 stereo pairs (16 channels) of embedded audio.

High Density

Configure the Niagara 9200 with two, four or eight independent channels in this 1RU system for applications that require high density at a reasonable cost.

Enhance Efficiencies

Optimize your workflow by easily developing customized solutions with the powerful and accessible web SDK or via SNMP.

Exceptional Performance

With the latest high-performance multi-core and Intel GPU processing technology, deliver multiple simultaneous streams in a variety of formats to extend existing audiences and reach new ones, such as mobile, web, and IPTV users.

Comprehensive and Adaptable

All industry streaming protocols are included on one system as standard.

Ideal Solutions

> Content delivery networks

> Corporate Video Delivery

> Teleport turn-around

Applications

> Live streaming / simulcasting

> Webcasting

> Mobile TV

> IPTV

Key Attributes

> Live capture, encoding and transcoding for professional-grade digital video and audio delivery

> Configurable video/audio inputs

> Input, output and device level redundancy

> Individually brand streams with bitmap overlays (e.g., logos and graphics)

> Web interface and SNMP provide remote setup, control and monitoring

> High-efficiency redundant power supplies

Niagara Video Corporation

Niagara® 9200 Digital Models
Encoder/Transcoder

Niagara 9200-TR

Transcode only – MPEG-TS Inputs

Back View

Niagara 9200-2D

Video: - 2 HD or SD SDI (*2 x DIN*)
Audio: - Embedded SDI
(*8 stereo pair per SDI input*)

Back View

Niagara 9200-4D/Niagara 4K

Video: - 4 HD/SD SDI (*4 x DIN*) or 1 4K
Audio: - Embedded SDI
(*8 stereo pair per SDI input*)

Back View

Niagara 9200-8D

Video: - 8 HD or SD SDI (*8 x DIN*)
Audio: - Embedded SDI
(*8 stereo pair per SDI input*)

Back View

SDI Inputs comply with SMPTE 259M, 292M and 424M

Specifications

Encoding Formats:

• Adobe® Flash® H.264* (RTMP)
• Apple® HTTP Live Streaming (HLS)
• Dynamic Adaptive Streaming over HTTP (MPEG-DASH)
• Microsoft® Live IIS Smooth Streaming
• MPEG 2 Transport Stream (UDP or RTP/FEC)
• H.264, HEVC and MPEG 2 codecs

Transcoding:

• Video Codec Inputs: HEVC, MPEG-2 and H.264
• Audio Codec Inputs: MPEG-1 Layer II, AAC-LC, HE-AAC v1/v2, Dolby Digital (AC-3), Dolby Digital Plus (E-AC-3)
• Transport Inputs: MPEG-TS/UDP and RTP/UDP (FEC)

Pre-Processing:

• Adaptive de-interlacing
• Video cropping and rescaling (up and down)
• Aspect-ratio conversion or pass-through
• Frame rate down and up-conversion

• Video monitoring
• Logo & Slate insertion
• Closed-caption and Teletext

Software:
• SCX+ LIVE
• SNMP - monitoring
• REST Web SDK

Network and Data Connectivity:
• 2 front panel USB ports
• 1 GB Ethernet Management
• 4x1GB Ethernet Streaming

Dimensions:
1U rack mount appliance (*1RU x 17" W x 19" D*)

Weight:
• 20 lbs. (*7 Kgs*)

Power:
• 280 W redundant power supplies
• NEMA 5-15 type connector

Delivering Video Whenever, Wherever