

Niagara[®] 9300 Digital Input Models

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



Different models to fit a variety of needs.

The Niagara 9300 series is a high-density/high-performing multi-channel encoder/transcoder for service providers, broadcasters, and enterprises. The Niagara 9300 SDI input models support HD and/or SD SDI inputs with up to 8 stereo pairs (16 channels) of embedded audio.

High Density

Configure the Niagara 9300 with two, four or eight independent channels in this 1RU system for applications that require high density.

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 XEON 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 encoding formats are included on one system as standard.

Ideal Solutions

- > Content delivery networks
- > Corporate Video Delivery

Applications

- > Live streaming / simulcasting
- > Webcasting
- > Mobile TV
- > IPTV

Key Attributes

- > Live capture, encoding and streaming for professional-grade digital video and audio delivery
- > Configurable video/audio inputs
- > Individually brand streams with bitmap overlays (e.g., logos and graphics)
- > Web interface and SNMP provide remote setup, control and monitoring
- > High-efficiency power supply



Delivering Video Whenever, Wherever

Niagara® 9300 Digital Models

Encoder/Transcoder

Niagara 9300-TR

Transcode only – MPEG-TS Inputs



Back View

Niagara 9300-2D

Video: - 2 HD or SD SDI (2 x DIN)

Audio: - Embedded SDI

(8 stereo pair per SDI input)



Back View

Niagara 9300-4D

Video: - 4 HD or SD SDI (4 x DIN)

Audio: - Embedded SDI

(8 stereo pair per SDI input)



Back View

Niagara 9300-8D

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 and HEVC codecs, MPEG 2 future release

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)
- Transport Inputs: MPEG-TS/UDP and RTP/UDP (FEC)

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
- Closed-caption and Teletext

Software:

- SCX+
- SNMP - monitoring
- Web SDK (REST API)

Connectivity:

- 2 front panel USB ports
- 1 GB Ethernet Management
- 2x1GB Ethernet Streaming
- Optional SFP cages

Dimensions:

1U rack mount appliance (1RU x 17" W x 27.8" D)

Weight:

• 41 lbs. (18.6 Kgs)

Power:

- 750 W redundant power supplies
- NEMA 5-15 type connector

Delivering Video Whenever, Wherever

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