

# Niagara<sup>®</sup> 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

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