Niagara® 9100 Digital Input Models

Streaming Media Systems

Different models to fit a variety of needs.

The Niagara 9100 series is a high-density/high-performing multiple encoder platform for service providers, broadcasters, and enterprises. The Niagara 9100 digital input series supports HD and/or SD SDI inputs with up to 8 stereo pairs (16 channels) of embedded audio.

High Density
Configure the Niagara 9100 with two 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 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
- > Network service providers

Applications
- > Live streaming / simulcasting
- > Webcasting
- > Mobile TV
- > Archiving/Video on Demand
- > 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

ViewCast®

Delivering Video Whenever, Wherever

Niagara® 9100 Digital Input
Streaming Media Systems

Front View

The Niagara 9100 is currently available in the following models.
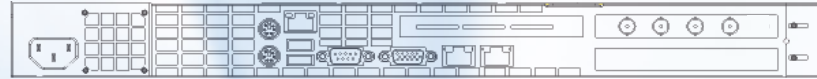
Niagara 9100-2D/2De

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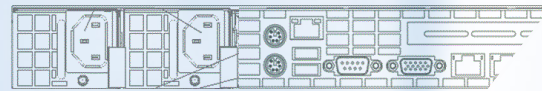   (*8 stereo pair per SDI input*)

Back View

Niagara 9100-4D

Video: - 4 HD or SD SDI (*4 x BNC*)
Audio: - Embedded SDI
      (*8 stereo pair per SDI input*)

Back View

Each of the models (for example the Niagara 9100-8A) can be ordered with a redundant power supply option. The illustration shows the configuration:

Back View

Specifications

Encoding Formats:

- Adobe® Flash® H.264*
- Adobe® Flash dynamic streaming
- Apple® HTTP live streaming
- Microsoft® Live IIS Smooth Streaming
- Microsoft® Windows Media® (*Silverlight®)* SD and HD*
- MPEG-4, H.264, H.263
- 3GPP/3GPP2, MP4 container support
- MPEG 2 Transport Stream, H.264 and MPEG 2 codecs

    * *Output streams tested up to 1080p at 30 fps using Flash H.264 and Windows Media*

Monitoring:

- LCD status display

Connectivity:

USB ports:
- 2 rear panel, 1 front panel

Ethernet:
- 2 x 1 Gbit ports

Software:

- Web-based configuration tool
- Web SDK
- SimulStream®
- SNMP

Hardware:

- Multi-core processors
- 1 TB SATA HDD

Pre-Processing:

- Scaling, cropping, de-interlacing, inverse telecine
- Closed-caption rendering (*SD only*)

Weight:

- 41 lb (*18.6 Kgs*)

Dimensions:

- 1U rack mount appliance (*1RU x 17" W x 25.6" D*)
  (*1RU x 43.2 cm W x 65 cm D*)

Power:

- 560 W power supply

Additional Contents:

- Rack slide rails

Hardware Warranty:

- 1 year limited hardware warranty

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Niagara® 9100 Analog Input Models

Streaming Media System

Configurable solution to fit a variety of needs.

The Niagara 9100 series is a high-density/high-performing multiple encoder platform for service providers, broadcasters, and enterprises. The Niagara 9100 can be configured for a variety of video and audio inputs including component, Y/C, composite video with balanced or unbalanced audio.

Highest Density in the Industry
Configure the Niagara 9100 with up to eight independent channels in this 1RU system for the highest density you will find anywhere.

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 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

> Network service providers

Applications
> Live streaming / simulcasting

> Webcasting

> Mobile TV

> Archiving/Video on Demand

> 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 or SNMP provides remote setup, control and monitoring

> High-efficiency power supply

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Niagara® 9100 - Analog Input
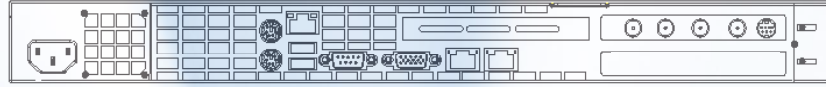## Streaming Media Systems

Front View

The Niagara 9100 is currently available in the following analog input models.

Niagara 9100-4A

Video: - 4 composite (*4 x BNC*)
        - BNC - RCA adapters included
Audio: - 4 unbalanced (*8 x RCA*)

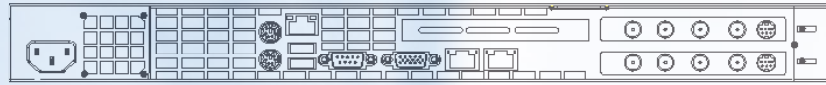Back View

Niagara 9100-4AV

Video: - 4 composite (*4 x BNC*)
        - BNC - RCA adapters included
        - 4 component
        - 4 Y/C (S-Video)
Audio: - 4 unbalanced (*8 x RCA*)
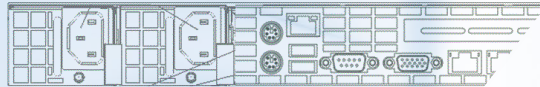   - 4 balanced (*8 x XLR*)

Back View

Niagara 9100-8A

Video: - 8 composite (*8 x BNC*)
        - BNC - RCA adapters included
Audio: - 8 unbalanced (*16 x RCA*)

Back View

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Ethernet:
- 2 x 1 Gbit ports

Software:

- Web-based configuration tool
- Web SDK
- SimulStream®
- SNMP

Hardware:

- Multi-core processors
- 1 TB SATA HDD

Pre-Processing:

- Scaling, cropping, de-interlacing, inverse telecine
- Closed-caption rendering (*SD only*)

Weight:

- 41 lb (*18.6 Kgs*)
- 43 lb (*19.5 Kgs*) Redundant model

Dimensions:

- 1U rack mount appliance (*1RU x 17" W x 25.6" D*)
  (*1RU x 43.2 cm W x 65 cm D*)

Power:

- 560 W power supply
- Dual 650 W power supply (*Redundant model*)

Additional Contents:

- Rack slide rails

Hardware Warranty:

- 1 year limited hardware warranty

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