

FEATURES

- ▷ Powerful single XEON based video processor.
- ▷ Configurable video/audio inputs
- ▷ Individually brand streams with bitmap overlays (e.g., logos and graphics)
- ▷ Web interface and APIs provide remote setup, control and monitoring

APPLICATIONS

- ▷ Broadcasters
- ▷ Houses of worship
- ▷ Boardroom
- ▷ Government
- ▷ Network service providers
- ▷ Education
- ▷ Remote Streaming
- ▷ Webcasting
- ▷ Mobile TV
- ▷ IPTV



The Niagara 8100P series offers power at an affordable price. This durable system comes with Niagara SCX® web-based software application that allows for easy setup and management of encoders and streams. Additional audio & video input options make the 8100P a perfect solution for almost any professional studio or video facility.

Models

The 8100 models cover up to 4 SDI or HDMI inputs and up to 8 SDI outputs. The transcoder model support 10 + HD services.

High Performance at an affordable cost

With solid-state storage technology, the GoStream provides the reliability that you need for a portable, scalable, highly flexible encoder. This compact unit is perfect for applications that require a fast, quiet and affordable system.



Back View 8100P-S2



Rear View 8100P-S4



Rear View 8100P-D8

TECHNICAL SPECIFICATIONS

Video/Audio Interfaces

Video Inputs	SDI or HDMI
Audio Inputs	Embedded audio, up to 16 channels
Input Connectors	SDI, HDMI depending on the model

Encoding

Encoding Formats	Adobe® Flash® H.264 (RTMP and RTMPS) Adobe® Flash dynamic streaming Apple® HTTP Live Streaming (HLS) Microsoft® Live IIS Smooth Streaming MPEG-4, H.264 MPEG 2 Transport Stream, H.264 and MPEG 2 codecs
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* Output streams tested up to 1080p at 30 fps using Flash H.264 and Windows Media

Monitoring

	Video streaming presence indicator
	LCD status monitor
	Audio level meter
	Audio headset jack

Video Format

	SMPTE 259M and 292M SDI standards
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Connectivity

USB ports	6 rear panel, 1 front panel
Ethernet	2 x 1 Gbit ports

Pre-Processing

	Adaptive de-interlacing
	Video cropping and rescaling
	Aspect-ratio conversion or pass-through
	Frame rate down-conversion
	Video preview
	Logo & Slate insertion
	Time code/Date & Time insertion

	Closed-caption support
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Software

	Niagara SCX®
	SNMP
	Web-based user-interface

Hardware:

	Multi-core processor
	Solid state hybrid drive (500 GB/1 TB)

Mechanical/Environmental

Chassis	12.25" H x 8.5" W x 5.25" D (31.1 cm x 21.6 cm W x 13.3 cm D)
Operating Temperature	
Weight	13 lb (5.8 Kgs)

Power

	300W AC Redundant PS
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Additional Contents

	Quick-start Guide
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Hardware Warranty

	1 year limited hardware warranty
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ORDERING INFORMATION

Part #	DESCRIPTION
8100P-TR-10	Transcoder with 10 HD services, Supports popular IP inputs and outputs - UDP, RTSP, HLS, RTMP, SRT and more. Video codecs include H.264, HEVC and MPEG2. Audio codecs include AAC, AC-3 and more.
8100P-S2	Encoder with 2 SDI/ASI inputs/outputs, Supports popular IP outputs - UDP, RTSP, HLS, RTMP, SRT and more. Video codecs include H.264, HEVC and MPEG2. Audio codecs include AAC, AC-3 and more.
8100P-S4	Encoder with 4 SDI/ASI inputs/outputs, Supports popular IP outputs - UDP, RTSP, HLS, RTMP, SRT and more. Video codecs include H.264, HEVC and MPEG2. Audio codecs include AAC, AC-3 and more.
8100P-S8	Encoder with 8 SDI/ASI inputs/outputs, Supports popular IP outputs - UDP, RTSP, HLS, RTMP, SRT and more. Video codecs include H.264, HEVC and MPEG2. Audio codecs include AAC, AC-3 and more.
8100P-H4	Encoder with 4 HDMI inputs, Supports popular IP outputs - UDP, RTSP, HLS, RTMP, SRT and more. Video codecs include H.264, HEVC and MPEG2. Audio codecs include AAC, AC-3 and more.
8100P-OC4	Transcoder with 4 ATSC tuners, Supports popular IP outputs - UDP, RTSP, HLS, RTMP, SRT and more. Video codecs include H.264, HEVC and MPEG2. Audio codecs include AAC, AC-3 and more.
8100P-OC8	Transcoder with 4 ATSC tuners, Supports popular IP outputs - UDP, RTSP, HLS, RTMP, SRT and more. Video codecs include H.264, HEVC and MPEG2. Audio codecs include AAC, AC-3 and more.

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Part #	DESCRIPTION
8100P-SX4	Decoder with 4 SDI/ASI out puts, Supports all popular IP inputs and outputs - UDP, RTSP, HLS, RTMP, SRT and more. Video codecs include H.264, HEVC and MPEG2. Audio codecs include AAC, AC-3 and more.
8100P-SX8	Decoder with 8 SDI/ASI out puts, Supports all popular IP inputs and outputs - UDP, RTSP, HLS, RTMP, SRT and more. Video codecs include H.264, HEVC and MPEG2. Audio codecs include AAC, AC-3 and more.
8100P-TR4	Transcoder with 4 HD services, Supports popular IP inputs and outputs - UDP, RTSP, HLS, RTMP, SRT and more. Video codecs include H.264, HEVC and MPEG2. Audio codecs include AAC, AC-3 and more.