

# Niagara B264 Encoder



## 24x7x365 operation for demanding applications

The Niagara B264 H.264 encoder is designed for broadcast applications but can also be used for other applications such as IP transport and streaming to media servers and CDNs. The encoder is available in two models; the broadcast model has IP and ASI outputs and each one has either balanced or unbalanced audio inputs. The B264 can be purchased as a single or dual channel encoder.

### Now with XRT – extremely Reliable Transport over the Internet

The B264 has 3 options for transmitting video over the Internet; HLS Server, RTMP (Adobe Flash) and RTP/ARQ. It will operate with the B264 encoder or many other encoders or servers.

### Broad support of IP Protocols

This decoder supports the widest range of IP protocols in the industry including; UDP, RTP, RTP/ARQ, Adobe Flash, Apple's HLS and RTSP. It also supports ASI input.  
Now with XRT!

### Reliability at an affordable cost

The decoder is based on hardware decompression. It consumes very little power and has a small form factor. Three can fit in 1 Rack Unit of space

#### Ideal Solutions

- > Transmit over the Internet
- > Houses of worship
- > Boardroom
- > Government
- > Broadcasters
- > Education

#### Applications

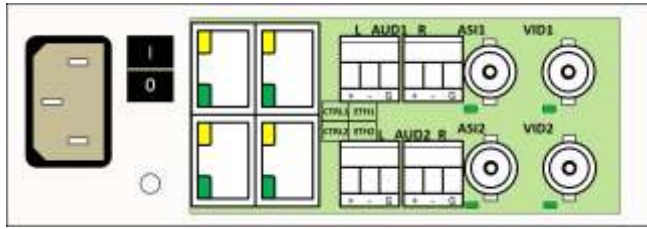
- > ENG/OB transport
- > Reception of security cameras
- > Monitoring of HLS, RTMP, UDP, RTSP streams
- > Point to Point or Multipoint IP or ASI transmission

#### Key Features

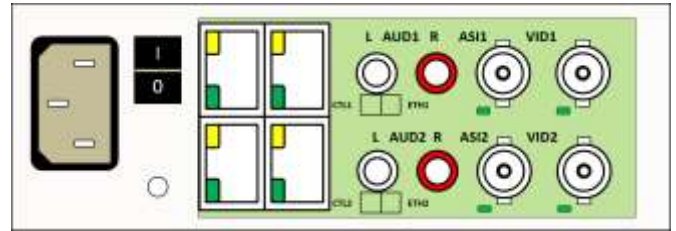
- > Suitable for broadcasters but affordable for other markets as well.
- > Input can be set to auto detect or for manual selection
- > ASIC compression and Linux ensure 24x7x365 operation
- > Client software and SNMP provide setup, control and monitoring

# B264 Encoder

H.264 Encoder



Back View (Balanced Audio Option)



Back View (Unbalanced Audio Option)

### Video Inputs:

- 2 x SDI (BNC)
  - 3G SMPTE 424 M
  - HD SMPTE 292 M
  - SD SMPTE 259 M
- Composite Video (NTSC/PAL)

### Audio Inputs:

- Embedded SDI (up to 4 stereo pairs)
- 1 Pair Balanced Audio (Terminal blocks)

### Video Inputs:

- 2 x SDI (BNC)
  - 3G SMPTE 424 M
  - HD SMPTE 292 M
  - SD SMPTE 259 M
- Composite Video (NTSC/PAL)

### Audio Output:

- Embedded SDI (Up to 4 stereo pairs)
- 1 Pair Unbalanced Audio (RCA)

## Specifications

### Video Encoding Protocols:

- Adobe® Flash® H.264 (RTMP)
- Apple® HTTP Live Streaming (HLS)
- MPEG 2 Transport Stream, UDP and RTP
- RTP/ARQ

### SMPTE Protocols:

- SMPTE 2022 FEC
- SCTE 104/35 conversion
- SMPTE 2038, frame accurate

### Audio Encoding Formats:

- AAC
- MPEG1 Layer II
- AC-3 Pass through or Decode

### Video Format:

- HD: SMPTE 424M and 292M SDI standards
- SD: SMPTE 259M SDI, Analog NTSC and PAL

### Connectivity:

- 4 x 1 Gbit ports (auto sensing)
- 2 x SDI Output
- 2 x ASI Outputs
- 1 x Balanced Analog Audio Output (Terminal block) or
- 1 x Unbalanced Analog Audio Output (RCA)

### Software:

- Client software for PC, Mac and Linux (DashBoard)
- SNMP MIB

### Hardware:

- ASIC based hardware compression
- Control and Streaming Ethernet Ports
- IP and ASI outputs

### Pre-Processing:

- CEA 608 and 708
- AFD/WSS

### Weight:

- 3 lb (1.36 Kgs)

### Dimensions:

- 1.73" H x 5.7" W x 14" D (3 will fit in 1 RU) (44mm x 146 x 356mm)

### Power:

- 15 W maximum

### Warranty:

- 3 year hardware and software warranty

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