Niagara BRD Decoder

24x7x365 operation for demanding applications

The BRD H.264/MPEG-2 decoder is designed for broadcast applications but can also be used for other applications such as IP transport over the Internet and receiving streams from security cameras. The decoder is available in two configurations; one with balanced audio output and one with unbalanced audio output. It can be purchased in a stand-alone frame or as an openGear card.

Now with RIST – Reliable Internet Streaming Transport

The BRD has 4 options for receiving video over the Internet; RTSP, HLS, RTMP (either as a client or as a server) and RIST. 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, RIST, Adobe Flash, Apple's HLS and RTSP. It also supports ASI input.

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
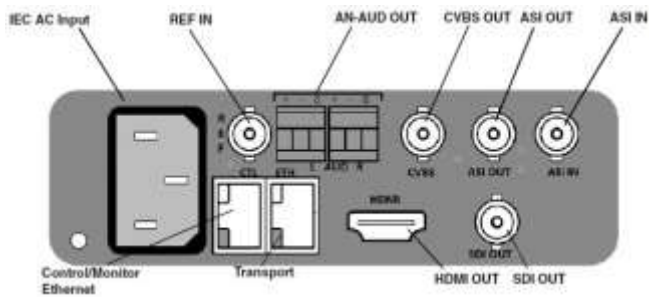
> Government

> 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

> Genlock option

Niagara Video Corporation

Delivering Video Whenever, Wherever

Niagara BRD Decoder
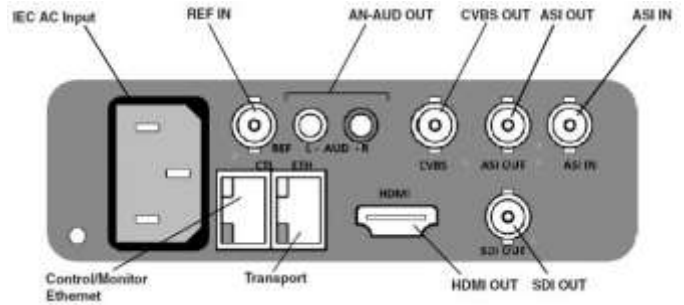Broadcast Decoder

Back View (Balanced Audio Option)

Video Output:
- 1 x SDI (*BNC*)
  - 3G SMPTE 424 M
  - HD SMPTE 292 M
  - SD SMPTE 259 M
- 1 x HDMI
- 1 x Composite (NTSC or PAL)

Audio Output:
- Embedded SDI (2 *stereo pairs*)
- 1 Pair Balanced Audio (Terminal blocks)

Back View (Unbalanced Audio Option)

Video Output:
- 1 x SDI (*BNC*)
  - 3G SMPTE 424 M
  - HD SMPTE 292 M
  - SD SMPTE 259 M
- 1 x HDMI
- 1 x Composite (NTSC or PAL)

Audio Output:
- Embedded SDI (2 *stereo pairs*)
- 1 Pair Unbalanced Audio (RCA)

Specifications

Video Decoding Formats:
- Adobe® Flash® H.264 (RTMP)
- Apple® HTTP Live Streaming (HLS)
- MPEG 2 Transport Stream, UDP and RTP
- RIST
- SMPTE 2022 FEC

Audio Decoding Formats:
- AAC
- MPEG1 Layer II
- AC-3 Pass through or Decode
- Balanced or Unbalanced Analog Outputs

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

Connectivity:
- 2 x 1 Gbit ports (auto sensing)
- 1 x SDI Output
- 2 x ASI (1 Input and 1 Output)
- 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
- Genlock option

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