NOVUS-IP - H.264 / MPEG-4 AVC HD/SD IP Encoder

Single or Dual Channel HD/SD H.264 / MPEG-4 AVC Encoder
3G/HD/SD-SDI and Analog (Composite) inputs, Embedded and Analog Audio inputs
SD/HD encoding - up to 1080p50/60
IP streaming:
UDP/IP Unicast and Multicast streaming
Adobe Flash (RTMP) streaming, Apple's HTTP Live Streaming (HLS)

Reliable Transmission

Reliable broadcast quality "burst free" transmission of content over IP networks is achieved through direct processing technologies. This delivers precise packet timing and buffer management, reducing IP jitter and delay.

High Density

Each unit can support up to 2 High Definition or Standard Definition video services simultaneously. Units can be used standalone, or combined in a 1RU rack mount tray (3 units per tray).

Control & Monitoring

Control and monitor multiple encoders using the DashBoard program or through the SNMP protocol.

The NOVUS-IP Streaming Encoder is a real time compression solution that delivers unrivalled HD and SD video quality. The solution provides operators with the most powerful, cost effective architecture in the industry for enterprise and streaming video markets.

Applications

- Streaming to CDNs; Akamai, UStream, YouTube , Wowza Cloud service and many others
- Streaming to media servers; Adobe Media Server, Wowza
- Internal streaming to PC's, Set Top Boxes and media servers
- Point to Point streaming

The NOVUS-IP is ideally suited for IP video distribution over the Internet, across a dedicated IP link or internally.

Features

- H.264 encoder — SD/HD (up to 1080p50/60)
- SDI (SD or HD) and Composite inputs
- Stored Presets
- AAC stereo audio
- Closed Caption support
- Management and control via DashBoard and SNMP
- UDP transmission using unicast or multicast
- Adobe Flash (RTMP)
- Apple's HTTP Live Streaming (HLS)
- Support for many CDNs and Media Servers including; Akamai, YouTube Live, UStream, DaCast, Edgecast, Wowza and Adobe Media Server

ORDERING INFORMATION

NOVUS-IP1 - Single-Channel H.264 SD/HD Encoder

NOVUS-IP2 - Dual-Channel H.264 SD/HD Encoder

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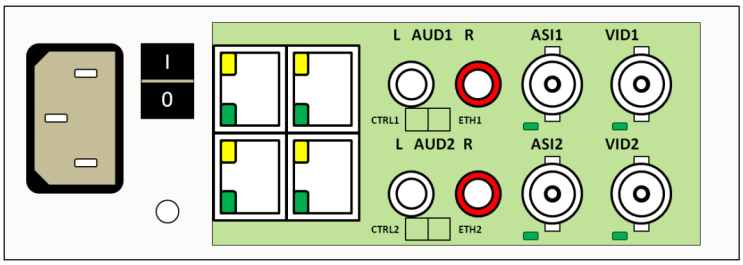
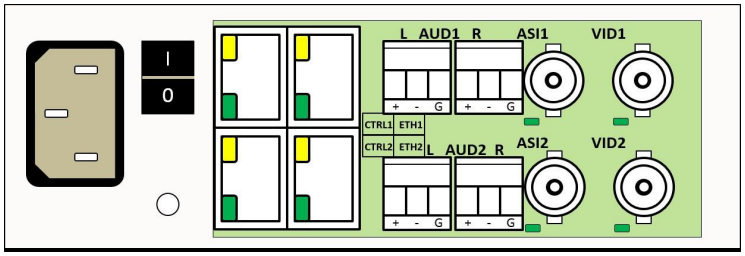
AdvancedDigital Inc.

NOVUS-IP - H.264 / MPEG-4 AVC HD/SD IP Encoder

Rear Panel Unbalanced Audio:



Rear Panel Balanced Audio:



Inputs

HD Video

3G-SDI (SMPTE 424M) 75 Ohm

HD-SDI (SMPTE 292M) 75 Ohm

SD Video

SD-SDI (SMPTE 259M) 75 Ohm with EDH

Composite video (PAL/NTSC) 75 Ohm

SD-SDI 625 & 525 line standards

Audio

Embedded SDI (up to 4 pairs)

Unbalanced Analog (1 pair)

Balanced Analog (1 pair)

Network Interface

2x 100/1000Base-T RJ-45 ports, auto-negotiate or fixed speed

Network Protocols

UDP/IP (Unicast and Multicast)

RTMP (Adobe Flash)

HTTP Live Streaming (HLS): populates an external web server through FTP or SFTP

Automatically generates web pages with a video window for HLS (VLC plug in required)

Video Encoding

Dual Channel HD Video

MPEG-4 AVC High profile at level 4.2 (HP@L4.2)

MPEG-4 AVC High profile at level 4.0 (HP@L4.0)

CBR & VBR

2Mbps to 12Mbps (depending on profile)

Dual channel SD Video

MPEG-4 AVC Main profile at level 3.0 (MP@L3.0)

CBR & VBR

500 kbps to 10 Mbps (depending on profile)

Video Resolutions

High Definition

1080 x 1920p - 60/50

1080 x 1920/1440i - 25/29.97/30

720 x 1280p/960 - 50/59.94

960 x 540 - 25/29.97

Standard Definition

480 x 720/704/640/528 - 29.97

360 x 640p - 29.97

576 x 720/704/640/528 - 25

Lower Resolutions

480x270, 320x240, 320x180

Audio Encoding

MPEG-4 AAC-LC

Lip sync adjustment

Video Pre-processing

Advanced adaptive spatial filtering

Closed Captions CEA 608B & CEA-708C

WSS/AFD

Management and Control

10/100/1000 Base-T Ethernet

Configuration import/export

Visual fault warning

In-band and out-of-band control

SNMP v1,v2

Accurate bit rate control

Startup to streaming in seconds

Physical & Power

Dimensions:

146 x 356 x 44mm (W x D x H)

Desktop or 1RU rack mountable tray available—3 modules per tray

Power Consumption:

12 Watts

Power Supply:

Input 100-250 VAC 47-63 Hz

Self Cooled 15W Max

Environmental Conditions

Operating Temperature:

0°C to 50°C (32°F to 122°F)

Operating Humidity:

5% to 95% (non-condensing)

Compliance

CE: CE marked in accordance with 89/336/EEC, 72/23/EEC and 1999/5/EEC Directives

EMC: EN55022, EN55024, EN61000, FCC Part 15

SAFETY: IEC 60950

ROHS: 2011/65/EU

WEEE: 2012/19/EU

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