

AVN443HD

HD-SDI input h.264 HD IPTV encoder



OVERVIEW

Visionary Solutions' IPTV encoders can turn video from any HDMI, DVI-D, or HD-SDI source into full-screen, full resolution Internet Protocol digital video in real time.

The AVN443HD encodes high definition video in an h.264 stream (MPEG-4 Part 10/AVC). It's used in a Media Processing Platform (MPP), a high density rack mount system. Plug a video source directly into the blade, plug into the network via the RJ-45 connection, and stream real-time high definition video over your LAN or WAN. The MPP with AVN443HD blades is suitable for all applications requiring cost-effective, low bit rate, high definition video distribution over IP networks.

FEATURES

Superior Audio/Video Quality

h.264 (MPEG-4 Part 10/AVC) hardware compression and Visionary Solutions' optimized transmission technology provide a high definition, full frame rate, IP video stream. The stream can be viewed by an unlimited number of clients on a LAN or WAN provided that bandwidth is available. Image resolutions are configurable to 720p or 1080i at 50 or 60 frames per second or 1080p at 24 frames per second. The video bit rate can be configured from 4 to 18 Mbps. The audio compression is either AAC (128 to 512 kbps audio encoding) or MPEG-1 Layer 2 (64 to 384 kbps audio encoding) with up to 48 kHz sample rate.

Video Inputs

The AVN443HD includes one BNC connector for HD-SDI input, and one HDMI input (DVI-D with optional adaptor cable) for connecting video and audio source equipment.

Audio Inputs

A terminal block connector provides audio inputs for Balanced and Unbalanced connections. This allows for easy onsite connections regardless of the cabling outputs of the audio source. There are also

two RCA audio connectors (L/R) which support only unbalanced connections, and the HDMI input carries audio as well. The AVN443HD can also extract embedded audio from the HD-SDI input.

External Device Connections

The AVN443HD includes a serial connection via an RJ-45 connector. This connector can be used as an RS-232 port (full-duplex, no hand shaking) or an RS-422 (full-duplex) port. These ports allow the AVN443HD to interface with external devices such as terminal emulation equipment.

Management & Configuration

of the device is accomplished by any of four methods: PackeTV™ Configuration Utility, console menus, a Web interface, or the AVN Control Protocol API. TCP/ IP, HTTP and other Internet-related protocols are supported.

PackeTV™ Configuration Utility enables quick and efficient setup and mass reconfiguration of key settings including bit rate, video format and multicast destination IP addresses.

The IPTV Media Processing Platform from Visionary Solutions is a high density rack mountable blade system. The MPP1700 platform, pictured at right, with dual redundant power scheme, will hold up to eight AVN443HD high definition (HD) encoder blades or seventeen standard definition (SD) blades. The MPP200 has a single power source and can hold one HD or two SD blades. Each Media Processing Platform will incorporate a growing family of modules to support transport, switching, transcoding and monitoring of IPTV.



Visionary  Solutions, Inc

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SPECIFICATIONS

Input/Output

BNC HD-SDI serial digital input with EDH error detection

BNC HD-SDI loop through (re-clocked)

HDMI digital input with HDCP (DVI-D with optional adaptor cable)

Terminal block audio connector for Balanced and Un-Balanced Stereo

RCA Stereo Audio

RJ-45 Ethernet 10/100

RJ-45 Serial RS-232C or RS-422

Video Encoding

HD Video h.264 MPEG-4 AVC Compression

High Profile at level 4 (HP@L4)

5Mbps to 20Mbps

SD Video h.264 MPEG-4 AVC Compression

Main Profile at Level 3 (MP@L3)

2Mbps to 20Mbps

Video Resolutions

1080p 24

1080i 59.94/60

1080i 50

720p 59.94/60

720p 50

576i 50

480i 59.94

Audio Encoding

MPEG-1 Layer II stereo

128kbps to 384kbps

MPEG-2 AAC stereo

128kbps to 384kbps

Dimensions

(W x D x H)

40 x 131 x 175 (1.6" x 5.2" x 6.9")

Weight

220g or .49 lb. (approximate)

Power Input

DC Input 4.75 Watts

MPP200 Chassis 100-240VAC 50/60Hz Adapter

MPP1700 Chassis 100-240VAC 50/60Hz

Environmental

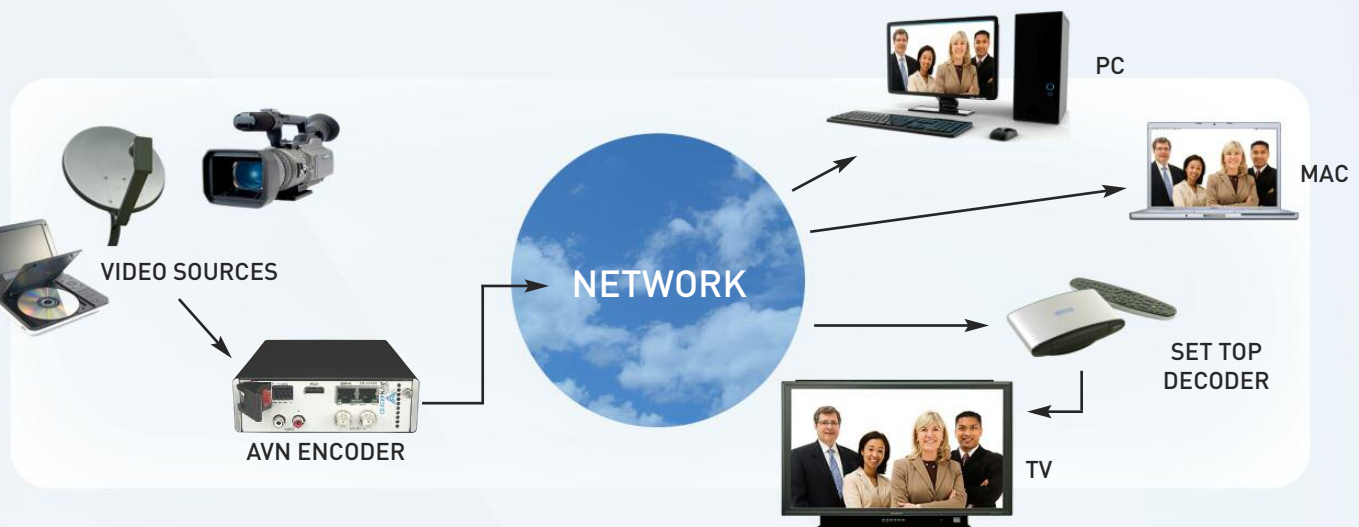
Operating Temperature -10°C to 50°C (14°F to 122°F)

Compliance

CE, UL Listed I.T.E E257717

EMC: FCC Part 15 Class A [MPP200] Class A, EN55022 [MPP1700] Class A, EN55022 EN61000-3-2, EN61000-3-3, EN55024

SAFETY: EN60950-1



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THE COST PERFORMANCE LEADER IN PROFESSIONAL IPTV

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