

AVN420

h.264 standard-definition encoder blade



OVERVIEW

Visionary Solutions' IPTV encoder can turn video from any composite or S-video source into full-screen, full resolution Internet Protocol digital video in real time.

The AVN420 encodes standard 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 digital video over your LAN or WAN. The MPP with AVN420 blades is suitable for all applications requiring cost-effective, low bit rate, standard 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 provides a video image at full frame rates and D1 resolution. The video stream can be viewed by an unlimited number of clients on a LAN or WAN with 25fps PAL or 30fps NTSC assured, provided that bandwidth is available. Image resolutions are configurable from D1 (720x480 NTSC, 720x576 PAL) down to 160x120. The video bit rate can be configured from 100 kbps to 4 Mbps. The audio compression is either AAC or MPEG-1 Layer 2 audio encoding at 8 to 384 kbps with up to 48 KHz sample rate.

Video Inputs

The AVN420 includes one BNC composite input and one S-Video input for connecting video 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. The AVN420 features user control of audio parameters, including mute, pre-amp and volume.

External Device Connections

The AVN420 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 AVN420 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 (included) enables quick and efficient setup and mass reconfiguration of key settings including bit rate, video resolution 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 seventeen single slot encoder blades, or a combination of dual and single slot blades. The MPP200 has a single power source and can hold two single slot encoder blades or one dual slot blade. 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

Audio connector provides input for right/left, balanced and unbalanced audio

S-Video connector provides input for a Y/C video cable

CVBS connector provides input for composite video sources

RCA type composite connections via adaptor

Serial Connector for RJ-45 connector which allows RS-232C (full duplex, no handshaking) and RS-422 (full duplex) communication

Video Encoding

h.264 MPEG-4 AVC Compression

Main Profile at Level 3 (MP@L3)

100Kbps to 4000Kbps (4Mbps)

Video Resolutions

NTSC	PAL
720x480	720x576
480x480	576x576
320x480	360x576
320x240	360x288
160x120	176x144

Audio Encoding

MPEG-1 Layer II stereo

128kbps to 384kbps

MPEG-2 AAC stereo

8kbps to 384kbps

Dimensions

(W x D x H)

20 x 131 x 175 (0.8" x 5.2" x 6.9")

Weight

160g or .35 lb. (approximate)

Power Input

DC Input 3 Watts

MPP200 Chassis 100-240VAC
50/60Hz Adapter

MPP1700 Chassis 100-240VAC
50/60Hz

Environmental

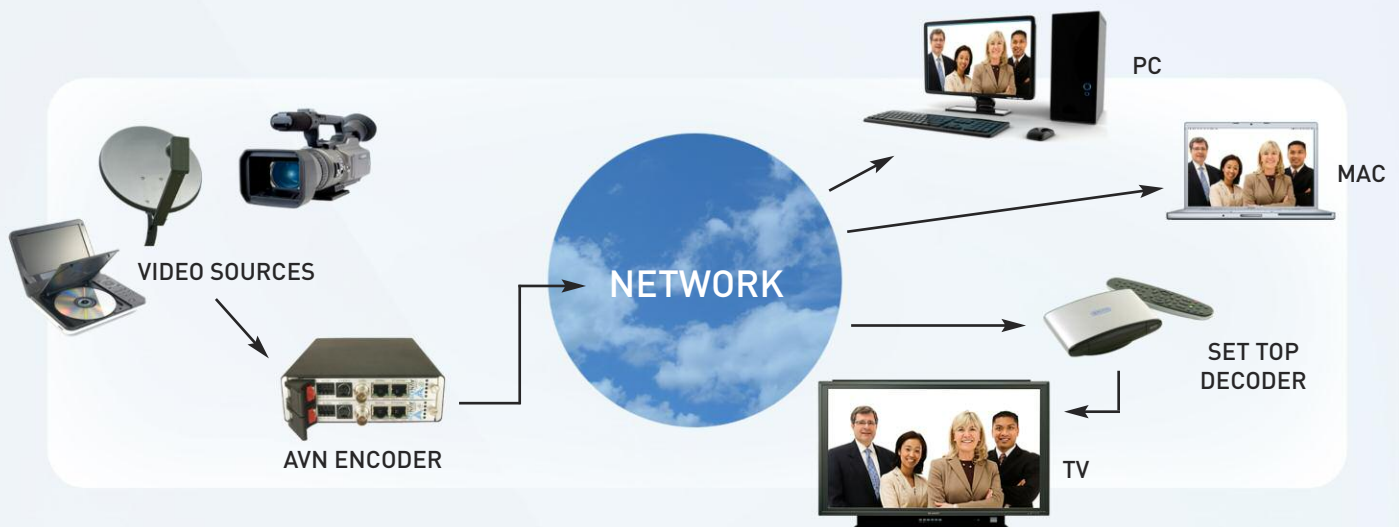
Operating Temperature -10°C to 50°C (14°F to 122°F)

Compliance

CE, UL Listed I.T.E E257717

EMC: FCC Part 15 Class A or B
[MPP200] Class B, 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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Specifications subject to change without notice. AVN420
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