



## H.264 SD Encoder Blade

Visionary Solutions' AVN420 H.264 Encoder transforms live video sources into full-screen, full resolution, Internet Protocol Digital Video, compatible with multi-cast, webcast and video-on-demand protocols. This high quality H.264 video encoder is suitable for all applications requiring cost-effective, low bit rate, SD video distribution over IP networks.

The AVN420 is a key component of Visionary Solutions' modular, end-to-end PacketTV® IPTV ecosystem, which is the ideal solution for any organization looking to deliver and manage real-time and recorded video over virtually any network.

### 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

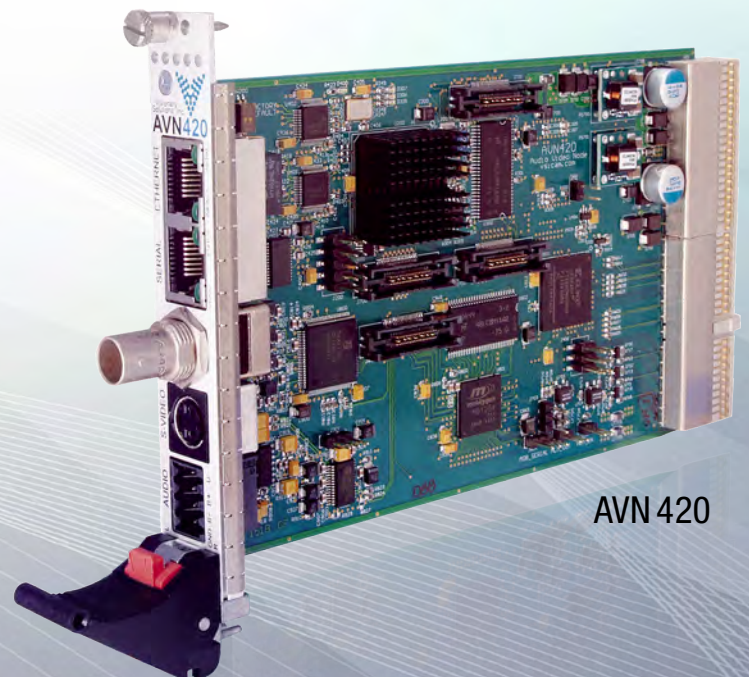
A terminal block connector provides audio inputs for Balanced and Unbalanced connections. This allows for easy onsite connections regardless of the cabling outputs of the audio source. The AVN420 features user control of audio parameters, including mute, pre-amp and volume.

#### ▶ 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

The AVN 420 can be managed and configured via a console menu, a web interface or the AVN Control Protocol API. Internet protocols such as TCP/IP and HTTP are also supported.



AVN 420



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The AVN420 is designed to be enclosed in the MPP200 or MPP1700 chassis. The MPP200 is a durable, single blade enclosure and the MPP1700 is a high density, rack mountable blade system.

### 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)

IGMP v1, v2, v3

#### 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

### Related Products

- Extended Product Warranty
- MPP1700
- MPP200
- PacketV® IPTV System
- PacketV® STB A140
- PacketV® STB H140
- PacketV® System Protection



AVN 420 in MPP200 Enclosure