

AVN220

IPTV MPEG-2 ENCODER BLADE



Visionary Solutions, Inc.

Visionary Solutions' AVN220 IPTV MPEG-2 over IP encoder blade is used in the Media Processing Platform (MPP), a high density rack mount system for video over IP transport. Plug a video source directly into the blade, plug into the network via the RJ-45 connection, and stream real-time DVD quality video over your LAN or WAN. The MPP with AVN220 blades is suitable for all applications requiring cost effective high bit rate video distribution over IP networks. There are two MPP chassis. The MPP1700 has the option of dual redundant power supplies and holds up to 17 blades, while the MPP200 has a single power source and can hold 2 blades.

The AVN220 has a unique embedded platform that enables consistent full motion video preserved from: delay, jitter, packet losses, and packet out-of-order instabilities. This technology is unrivaled for cost-to-performance value.



Features

- **Superior Audio/Video Quality.** MPEG-2 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 frame rates of 25 PAL or 30 NTSC frames per second assured, provided that bandwidth is available. Available image resolutions are: 720x480, 480x480, 352x480, and 352x240 NTSC; and 720x576, 480x576, 352x576, and 352x288 PAL. The video bit rate can be configured from 1.5 Mbit/s to 15 Mbit/s. The audio compression is MPEG-1 Layer 2 audio encoding at either 256 or 384 kbps with a 48 KHz sample rate.
- **Video Inputs.** The AVN220 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 AVN220 features user control of audio parameters, including mute, pre-amp and volume.
- **External Device Connections.** The AVN220 includes a serial connection via an RJ-45 or an RJ-11 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 AVN220 to interface with a variety of external devices, such as Pan/Tilt/Zoom (PTZ) devices.
- **Management & Configuration of the device** is accomplished by any of four methods, **PacketV™ Manager**, console menus, a Web interface, or the AVN Control Protocol API. TCP/IP, HTTP, and other Internet-related protocols are supported.
- **PacketV™ Manager** (optional). PacketV™ Manager software works in conjunction with the AVN220, enabling live viewing, recording, and extensive AVN220 control and configuration. With username and password control, administrators can select and lock an AVN220's properties for added security.
- **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. It is designed for "edge redistribution" and "edge content acquisition" applications where its value is unmatched. The platform pictured is comprised of an MPP1700 3RU chassis, seventeen AVN series encoder blades and two PSA200 power supply modules. Modular features include hot swap ability and a dual redundant power scheme. The Media Processing Platform will incorporate a growing family of modules to support transport, switching, transcoding and monitoring of IPTV.



The IPTV Media Processing Platform

AVN220 IPTV MPEG-2 encoder blade

Specifications Summary:

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-232 (full-duplex, no handshaking) and RS-422 (full duplex) communication

LED Status Indications:

- **10/100** LED indicates the speed of the connection
- **Link/Act** LED indicates the status of the Ethernet link
- **Status** LED indicates proper installation, power, and operation
- **Video** LED indicates the state of the video input signal when a valid video source is detected and blinks at a speed relative to the encoded bit rate when the unit is properly encoding video

Regulatory Approvals (MPP chassis dependent):

- MPP1700 - FCC Part 15 Class A, UL Listed I.T.E. E257717, CE
- MPP200 - FCC Part 15 Class B, UL Listed I.T.E. E257717, CE

Includes:

- One AVN220 blade
- Limited 12-month product warranty
- One RCA-to-BNC adapter, female-to-male

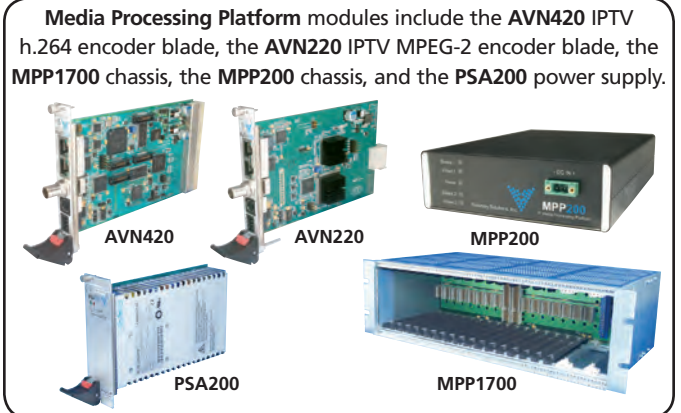
- One Wiedemuller terminal block connector for audio connections
- PackeTV™ software and product documentation CD available upon request or download from www.vsicam.com

Optional:

- Unbalanced audio cable for AVN series blades
- Extended Product Warranty

Dimensions:

W- .78 in. (20mm), H- 5.11 in. (130mm), D- 6.85 in. (174mm)



IPTV distribution for any environment:

- Corporate, Institutional & Multi Dwelling Units (MDU's)
- PEG and regional channel insertion
- Digital Signage- live content
- Hospitals / Clinics / Telemedicine
- Hotel / Resort / Cruise Hospitality
- Mobile Field Video Communications- Military / Disaster Relief

- Online Training- Corporate / Military / Industrial
- Government / Inter-Agency Communications
- Education- Online Seminars, Distance Learning
- Finance / Brokerage Television
- Legal / Legislative Communications- Remote Arraignment
- Manufacturing / Process Monitoring
- Security / Surveillance / Public Safety

