9000 Series H.264 Decoding Appliance

Efficiency and Performance in an H.264 Appliance

VBrick's new 9000 Series H.264 Decoding Appliance is the ideal complement to VBrick's line of H.264 encoding appliances. Designed to deliver the highest in video quality and reliability with sub 100 millisecond latency, this unit is ideal for enterprise, government, and military customers for point to point and multicast video backhaul applications. Customers needing a choice of A/V inputs and outputs will find this decoder delivers exceptional performance, ease-of-use, and flexibility in a professional grade package.

Product at a Glance

- Stream H.264 SD and HD video at resolutions up to 1080p60
- Combined Encoder/Decoder model ideal for two way video communication

MODELS

- HPS 9000 High and Standard Definition Decoding Appliance with SD/HD/3G-SDI, HDMI, Component, and Composite Video outputs
- HPS 9000 High and Standard Definition Decoding Blade with SD/HD/3G-SDI, HDMI, Component, and Composite Video outputs
- HPS 9000 HD Encoding/Decoding High Definition Encoding appliance with SD/HD/3G-SDI, Composite, HDMI and Component Video inputs and outputs
- XPS 9000 SD Encoding/Decoding Standard Definition appliance with SD/HD/3G-SDI, Composite, HDMI and Component Video inputs and outputs
- All appliances available in Industrial or Enterprise enclosures

Applications

Corporate Video Broadcasts backhaul and studio-to-studio connections

Mission Video Surveillance and UAV feeds, range video, force protection, and mission control

Telepresence and Telemedicine Transmit very high quality two-way video with extremely low delay

Broadcast Contribution and Distribution Backhaul high quality video for broadcast over the air at a fraction of the cost of traditional broadcast encoders

Capabilities

The H.264 decoder is fully compatible with VBrick's H.264 encoding appliances and offers the following capabilities:

High Definition and Standard Definition Video Supports lifelike HD video up to 1080p60 or 720p60 resolutions and frame rates, or decodes up to D1 resolution at lower data rates

Video Output Choice of four different analog or digital video outputs: SD/HD/3G-SDI, HDMI, Component Video, or Composite Video

High Quality Audio Analog or digital stereo audio outputs

Network Transmission Receive Unicast or Multicast video streams

Remote Management Web, SNMP, command line, soap/xml web services interfaces for full remote control and management

Flexible Form Factors Portable appliances for industrial and enterprise environments or blade for Rack Mount Chassis with up to 11 channels

Benefits

· Dependable embedded operating system and dedicated decoding hardware delivers highest reliability for mission-critical applications

· HD video output is ideal for large displays and video backhaul applications

· Flexible networking and bandwidth options allow for placement anywhere in the network

· Create high density installation using decoder blades in a rack mount chassis

· Efficient H.264 codec delivers the highest video quality at the lowest bandwidth

· Low latency enables real-time applications and two-way video

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Specifications

Transport and Networking Protocols
- H.264 in RTP
- Receive streams: 32Kbps to 20Mbps
- Unicast or Multicast over RTP/UDP
- IGMP
- Autotune streams from VBrick Encoders

Video Decoder
- H.264 Baseline, Main, and High Profile
- Streaming resolution and frame rates up to 1080p60
- Scaling from any input resolution and frame rate to match output resolution and framerate
- Configurable letter box or stretch to screen aspect ratio
- 4:3 and Widescreen 16:9 Frame Aspect Ratios
- Output Resolutions: 1080p, 1080i, 720, 576p, 576i, 480p, 480i
- Output Framerates: 60, 59.94, 50, 30, 29.97, 25

Audio Decoder
- AAC-LC, AAC-HE

Video Outputs
- Analog: Composite and YPbPr component video
- Digital: SD/HD/3G-SDI, HDMI
- HDMI, SDI connectors mounted directly on appliance/blade
- Breakout cable to BNC connectors for Analog Audio, Composite Video, and Component Video

Audio Outputs
- Analog: Stereo Line Level Unbalanced BNC, Balanced XLR (through optional XLR cable)
- SDI audio
- HDMI Audio

Network Connectivity
- 10/100/100 Ethernet
- Auto senses Full/Half Duplex
- Static IP address or DHCP

Management
- Management Web Pages over HTTP or HTTPS from integrated web server
- SNMP
- soap/xml Web Service
- ssh
- telnet
- iPhone app
- RS-232/422
- Front panel display on Enterprise Models

Dimensions
- Appliance: 1.75" x 8.1" x 8.75"

Power Supply Input
- 100-240VAC, 50/60Hz, 45 Watts, 12VDC, 4A

Regulatory Approvals
- FCC Part 15, CE

Protocols
- Unicast/Multicast, DiffServ (QoS), UDP, IPv4 and IPv6, RTP, SAP, IGMP, HTTP/HTTPS Management, SSH

Maintenance/Control Port
- Two serial ports for local maintenance and data transport

Weight
- 2 pounds

Operating Temperature Range
- Industrial Appliance: 0 to +70 degrees Celsius
- Enterprise Appliance: 0 to +50 degrees Celsius

Options
- XLR audio cable

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE