

MPEG-2 Encoder/Decoder

High Quality Video over IP Networks

Industry Leading Networked Video Appliances

Delivering MPEG formatted video and audio has never been easier. Whether it's corporate training, a new product launch, or a company wide executive address, VBrick's MPEG appliances enable video delivery with the broadcast quality of MPEG-2 to the bandwidth efficiency of MPEG-4 over your enterprise network or the internet.

Capabilities:

VBrick's MPEG Appliance is based on the award winning VB6000 platform and provides multiple capabilities in one portable and reliable appliance.

- **Encoding** – digitizing and compressing a video signal for delivery over an IP Network
- **Decoding** – receiving and decompressing a video stream from an IP Network with automated generation of on screen program display
- **Servng** – integrated video server provides up to 200 simultaneous streams via RTSP (MPEG-4 only)
- **Multicasting** – Multicast live video, or continuously pump a stored video (MPEG-2), directly from the appliance
- **Recording** – Record video that has been encoded or received over the network (MPEG-2, requires optional hard drive); recorded video may forwarded to Video on Demand servers for on demand playback
- **Two way collaboration** – inherent sub 250ms delay and built in video teleconferencing capabilities, including picture-in-picture, enable applications such as video telepresence
- **Format Flexibility** – VBrick MPEG appliances support NTSC and PAL video, 4:3 and 16:9 aspect ratios, a wide range of video resolutions, frame rates, and bit rates – including the ability to meter the output of the stream to fit the unique streaming requirements of any network
- **Remote Management** – Complete remote configuration and management solution via SNMP, or enable automated configuration download via periodic configuration polling

Benefits:

- Easy to configure and use – streaming in a matter of minutes
- Robust, reliable, appliance minimizes downtime and IT support requirements
- Automatic on-screen program display (decoder)
- Streams to publishing points via HTTP push, enabling firewall tunneling (MPEG-4)
- Format flexibility enables portability and adaptability to any network requirement

Product Datasheet



Compatibility:

- Multiplayer compatible – Windows Media® VBrick StreamPlayer, Real, Quicktime
- ISMA-MPEG-4 part 2
- IPv6 (MPEG-2 to StreamPlayer)
- IGMP v3
- SNMP v3

Interoperability:

- EtherneTV Suite – Portal Server, Scheduler, and Network Video Recorder
- EtherneTV IPR – low cost video decoding
- VBrick VOD-W MPEG Video On-Demand Server
- StreamPlayer software for desktop video decoding

Product Datasheet

Models:

- Single Channel MPEG-2 encoder (9110-4200)
- Single Channel MPEG-2 decoder (9110-5200)
- Dual Channel MPEG-2 encoder (9110-4300)
- Dual Channel MPEG-2 decoder (9110-5300)
- Dual Channel MPEG-2/4 encoder (9130-4300)
- Dual Channel MPEG-2 encoder/MPEG-4 encoder for transcoding (9130-6200)
- MPEG-2 encoder/decoder (9110-6200)
- Dual Channel MPEG-2/MPEG-4 decoder (9130-5300)
- MPEG-2 Options – Hard Drive, SDI Inputs

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VIDEO ENCODER	
Format-Input	<ul style="list-style-type: none"> • MPEG-2 ISO / 13818-1, -2, -3 • Main Level, Main Profile 4:2:0, SP@ML and MP@ML • Adjustable Intrapicture and reference distance (GOP) • Analog: NTSC, PAL, PAL-M • Digital: SDI-Optional
NTSC/PAL-M Resolutions	• Full D1, 2/3 D1, 1/2 D1, 352x240
PAL Resolutions	• Full D1, 2/3 D1, 1/2 D1, 352x240
COMPLIANT LEVELS	
Frame Rates	• N/A, NTSC: 29.97 fps, PAL: 25 fps, PAL-ML: 30 fps
Bit Rate/Frame Rate	• Constant/Constant
PID Selection	• Adjustable
Rates	• 1 Mbps to 15 Mbps
Closed Captions	• Line 21 Passthrough, or User Inserted
Inputs	• Composite or S-Video; SDI (optional, must be ordered separately)
AUDIO ENCODER	
Audio Encoder	<ul style="list-style-type: none"> • MPEG-1 Layer II ISO/13818-3 • Sample Frequency: 48 Khz
Rates	• 256 kbps, 384 kbps
Audio Modes	<ul style="list-style-type: none"> • Analog: Stereo, Mono (Left to Stereo), Mute • Digital: Optional, Embedded into the SDI serial system
Audio Inputs	<ul style="list-style-type: none"> • Unbalanced Input: Audio via Minijack • Balanced Input: Audio via Minijack, or Microphone DIN
VIDEO DECODER	
Format Output	<ul style="list-style-type: none"> • MPEG-2 ISO/13818-3 • NTSC, PAL, PAL-M
Rates	• Up to 20 Mbps, Auto-Detecting
Outputs	• Composite, S-Video, SDI (optional, must be ordered separately)
PID Selection	• Adjustable
AUDIO DECODER	
Mini-jack Outputs	<ul style="list-style-type: none"> • MPEG-2 ISO/13818-3 • Balanced or Unbalanced
Audio Decoder	• Sample Frequency: 48 Khz
FEATURES AND SPECIFICATIONS	
Server	• Live Multicast: N/A Live Streaming: N/A On-Demand: N/A
Ethernet	• 10/100 Mbps Ethernet via RJ-45, Static or DHCP, Auto Sense Full/Half Duplex
Routing	• None, Static, RIP, V1, V2 (listener only, with ATM advertise or listen)
OC3-ATM	• RFC 1483 Encapsulation or H 222.1 – MPEG Over ATM/AAL5, Single or Dual OC3 using LC connectors, multi or single mode ranges supported, ATM UNI: UNI 3.0/3.1, PVC and SVC, AAL5, IPOA UBR and CBR traffic shaping
Streaming Protocols	• Unicast/Multicast, DiffServ (QOS), UDP
Management Protocols	• HTTP via Integrated Web Server, SNMP, Telnet, HTTP via SDK, Serial Port Command Line
Maintenance Port	• Serial port for local maintenance or data transport
Hard Drive	• 60 GB (optional)
Control Port	• RS 232/422/485 Serial Port for Data Transport
IR Remote Control	• IR Remote Control for Local Control and Configuration, Program Guide, Conference Guide, and Billboard
Dimensions	• Width: 8.75" (22.2cm), Height: 2.3" (5.8cm), Depth: 12.5" (31.7cm)
Weight	• Approximately 7 lbs (3.2 Kg)
Temperature Range	• 32° to 158° F (0° to 70° C), VBSTAR: 32° to 113° F (0° to 45° C), Operating Humidity up to 90% Non-Condensing
Power Supply Input	• 100 to 240 VAC, 50/60 Hz, Approximately 55 Watts
Power Supply Output	• +24V up to 3.0A
Regulatory	• FCC Part 15, UL, CE
Relay	• Dry Contact, 75Ohms, 2A @ 30 VDC, 0.3A @ 110 VDC, 0.5A @ 125 VDC
LCD	• 32 Character Display (16x2), Backlit
LED Status	• Power In (24 VDC), Activity, Link, 10/100
SDK	• Allows third party developers and integrators to create custom applications and systems that incorporate video