WM Encoder and Server

Windows Media Streaming Over IP Based Networks

The streaming of Windows Media has never been easier. VBrick's WM appliance is based on the award winning VB6000 platform and supports the streaming of Windows Media by functioning as a Windows Media Encoder (WME) as well as a Windows Media Server (WMS). Each VBrick WM appliance is delivered with:

- · An embedded operating system and VBDNA software
- · IR remote for configuration
- · Complete cable kit and quick start guide

The WM appliance supports DHCP for quick installation and comes pre-configured so that you'll be streaming live within minutes. In addition, the WM appliance is fully compatible with Windows Media Player software, thus eliminating the need for desktop player installation on the majority of platforms. VBrick also stands behind its appliances with a standard one-year hardware warranty.

Benefits and Advantages

- · Integrates seamlessly into existing Microsoft Ecosystem
- · Combines a Windows Media Encoder and Server into a single appliance
- · Easy to configure and use – streaming in a matter of minutes
- · Streams to WMS publishing points via push or pull
- · Portable solution is ideal for Webcasting special events
- · Powerful on-board processor provides for much lower delay than with PC based systems
- · No desktop download necessary - streams directly to Microsoft's Windows Media Player (WMP)

Applications

- · Multicast or Unicast streaming for a variety of Intranet and Internet applications
- · Digital distribution of analog sources such as cable feeds, cameras, VCR and DVD players
- · Live corporate events and product launches
- · Webcasting of sporting events, graduations, training sessions
- · Security and surveillance of remote locations
- · Live multimedia

Models

- · 9190-4200 - Single channel WM appliance
- · 9190-4300 – Dual channel WM appliance

Product Features

- · WMV9 Video and WMA8 Audio Encoding
- · 8-bit 4:2:0 color format
- · Up to 320x240 resolution
- · Bitrates from 20Kbps to 2Mbps
- · Metadata insertion and scripting
- · 200 client RTSP (UDP) and HTTP Streaming Server (UDP)
- · Publishing Point Options
- · Unicast and direct Multicast Streaming
- · Automatic program guide

Interoperability

- · EtherneTV-MCS – portal for displaying live and on-demand program listings
- · Microsoft Windows Media Server – reflecting and archiving server
- · StreamPlayer & StreamPlayer Plus – client side program guide and media player
- · Microsoft Windows Media Player – desktop media player

Compatibility

- · Windows Media Player 10 on Windows XP
- · Windows Media Player 9 on 2000/XP and Mac OS X
- · Windows Media Player 7.x on 98/2000

Network Appliance

Video Encoder	WM9 Encoding
	Format: NTSC, PAL
	Resolution: 320 x 240, 240 x 180, 160 x 120
	Video Frame Rates: 1, 7.5, 10, 15, 30 fps (NTSC) 1, 5, 10, 12.5, 25 (PAL)
	Constant Bit Rate/ Constant Frame Rate
	Constant Bit Rate / Variable Frame Rate
	User defined key frame interval
	Rates: 20Kbps - 2 Mbps
	Inputs: Composite or S-Video
Audio Encoder	WM8 Encoding
	Sample Frequency 8Khz to 48Khz
	Rates: 5 Kbps to 192 Kbps
	Audio Modes: Stereo, Mono 1 (L+R), Mono 2 (Left only)
Ethernet Network	10/100 Mbps Ethernet via RJ-45, Static or DHCP, Auto sense Full/Half duplex
Protocols	Unicast/Multicast, DiffServ (QoS), UDP / IP / RTP / RTSP / RTCP / HTTP / ASF
Maintenance Port	Serial port for local maintenance or data transport
Control Port	Serial port for data transport
IR Remote Control	IR Remote Control for local control and configuration
Size	5.8 cm (2.3 inches) High 22.2 cm (8.75 inches) Wide 31.7 cm (12.5 inches) Deep
Weight	Approx. 3.2 Kg (7 lbs)
Temperature Range	Operating: 0 degrees to +70 degrees Celsius, operating humidity up to 90% non-condensing*
	Non-operating: -10 degree to +70 Celsius
Power Supply	Input: 100 to 240 VAC, 50/60 Hz, approx. 55 Watts Output: +24V up to 3.0A
Regulatory	FCC Part 15, UL, CE
Relay	Dry contact, 75mOhms, 2A @ 30VDC, .3A @ 110VDC, .5A @ 125VDC
LCD	32 Character display (16x2), backlit
LED Status	Power In (24VDC), Activity, Link, 10/100

*High temperature operation has some dependencies, please contact VBrick.

WM Appliance
R08292005