

Reliable, Robust, Video Streaming Over IP Networks

The VBrick SSM product family offers video only encoder solutions ideal for security and surveillance monitoring applications where high quality and bandwidth efficient video is required. VBrick now offers solutions using Windows Media® video formats, in rugged appliances that support temperature ranges from -20 to 70 C.



Capabilities

VBrick's VBSSM Appliances are based on the award winning VB6000 platform, with a conformal coated, ruggedized package

Encoding – Digitizing and compressing a video signal for delivery over an IP Network

Serving – Serve up to 200 simultaneous unicast video streams

Multicasting – Multicast live video directly from the appliance

Pushing – Push up to 25 simultaneous streams to VBrick Reflectors or to Windows Media® Servers

Low Delay Windows Media® Video – When combined with VBrick's Low Delay Windows Media® Technology, the VBSSM-WM can enable real-time video applications such as camera control and security monitoring typically reserved for MPEG formats

Remote Management – Complete remote configuration and management solution via SNMP, or enable automated configuration download (new) via periodic configuration polling

Dual Serial Ports – For in-line camera control

Format Flexibility – VBrick 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

Models

Windows Media®

9176-4200 Single channel SSM Encoder (video only) - NEW

Windows Media®/MPEG-2

9178-4300 Dual Channel Multi-Format SSM Encoder/Decoder (video only) - NEW

Compatibility

- Standard Player Compatibility – Windows Media®
- IGMP v3
- SNMP v3
- VBrick Low Delay Windows Media® Technology

Interoperability

- EtherneTV Suite – Portal Server, Scheduler, and Network Video Recorder
- EtherneTV IPR – low cost video decoding
- VBrick VOD-WM Video On-Demand Server

Benefits

- Robust, reliable, appliance minimizes downtime and IT support requirements
- Conformal coated circuit boards
- Automatic device discovery and configuration
- Low video transmission delay
- Industry standard video formats
- Streams to publishing points via HTTP push, enabling firewall tunneling (Windows Media®)
- Format flexibility enables portability and adaptability to any network requirement

VBSSM WM Appliance

Video Encoder	WM9 Encoding, SMPTE VC-1 compliant
Format-Input	NTSC, PAL - Composite video
4:3 Resolutions	640 x 480, 640 x 240, 320 x 480, 320 x 240, 240 x 180, 160 x 120
16:9 Resolutions	640 x 360, 640 x 180, 512 x 288 (PAL only), 384 x 216 (NTSC only), 256 x 144, 128 x 72
Encoding Rates	20 kbps - 4 Mbps
Closed Caption	Line 21 passthrough or user inserted
Frame Rates	1, 7.5, 10, 15, 30 fps (NTSC) 1, 5, 10, 12.5, 25 (PAL)
Bit Rate/Frame Rate	Constant/Constant Constant/Variable
Key Frame Interval	User defined
Push	Up to 25 concurrent HTTP pushes to VBrick Appliances or Windows Media® Servers
Server	Live multicast server Live streaming server - up to 200 concurrent live streams
Maintenance Port	Serial port for local maintenance or data transport RS232/422/485
Control Port	Serial port for data transport RS232/422/485
Dimensions	Width: 8.7" (22 cm) Height: 1.77" (4.5 cm) Depth: 12.3" (31.2 cm)
Weight	Approximately 3 lbs (1.32 kg)
Power Requirements	+10 to +27.5 VDC (24 Watts)
Power Supply Input	100 to 240 VAC, 50/60 Hz, approx. 55 Watts
Power Supply Output	+24V up to 3.0A
Regulatory	FCC Part 15, UL, CE
Relay	Dry contact, 75mOhms, 2A @ 30VDC, .3A @ 110VDC, .5A @ 125VDC
LED Status	Power in (24VDC), Activity, Link, 10/100
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
Temperature Range	-20° to +70° Celsius, Operating humidity up to 90%*

*High temperature operation has some dependencies. Please contact VBrick.

