

H.264 Rack Mount Shelf

VBrick H.264 11 Slot Rack Mount Shelf

Enterprise Video Delivery Systems

VBrick extends the capabilities its H.264 technology by providing an 11 slot rack mount shelf. The rack mount shelf is a redundant system. Any power supply or fan failure does not affect system operation. Modules can be swapped while the system is running to maintain non-stop performance. A variety of blade options provide flexibility for different I/O and video resolutions. With a compact design and all I/O accessible from the front, cable management is simplified and enclosures can be mount back-to-back for very high density.

Capabilities:

Field replaceable Power Supplies, Fan Trays, Filter Media, and Encoder Blades

– Redundant components provide fault tolerance for continuous operation even after module hardware failures

All field replaceable modules are hot swappable – No system down time when any individual module needs to be replaced

Fully Redundant Load Sharing Power Supplies – The system is fully operational when running off of a single power supply, and shares the load when redundant supplies are present and functioning

Redundant Cooling – Cooling capacity exceeds required heat dissipation after any individual fan failure

Alarming – Front panel alarm indications after the failure of any power supply or fan

Cable Management – Efficient routing of power, network, serial, and Audio/Video cables

Benefits:

- Clean mounting in server room environments
- Clean power provisioning with one or two (for redundancy) power feeds per shelf
- Easily managed through serial ports, network interfaces, and front panel status display for all modules
- Cost effective implementation in installations with high channel count
- Pay as you grow: purchase blades you need now, economically add more as your system grows

Product Datasheet



Models

- 8000 Series – Rack Mount Shelf
- 8103 H – Standard Definition Encoder/Server Blade
- 8103 H-HD – HD-Ready Encoder/Server Blade
- 8103 H-HD – HD Encoder/Server Blade

Interoperability

- VBrick H.264 HD STB Network Video Appliance
- Portal Server 4.4 or later
- VEMS 5.0 or later
- NVR version 4.4 or later
- VOD-W version 4.4 or later

Product Datasheet

FEATURES AND SPECIFICATIONS

Rack Mount Shelf	<ul style="list-style-type: none"> • Height: 14", 8 rack units • Depth: 11", allows for two rack mount shelves mounted back to back • Maximum Channel Density: 22 encode channels in 8U of rack space with back to back shelf mounting • Operating Temperature Range: 0 to 40C • Storage Temperature Range: -20 to 70C • Regulatory compliance: FCC Part 15 Class A, CE, RoHS (5 of 6) • Cooling Capacity: 50W per blade with one failed fan • Hot Swap: Power Supplies, Fan Tray, Encoder Blades, Air filter media
	<ul style="list-style-type: none"> • AC Power: 485 watts per power supply • Grounding: ESD wrist strap included with ground connection to chassis for user blade insertion/removal, chassis ground connection lug • LEDs: Power supply failure LED (for each supply and for enclosure), Fan Status LED, Fan Tray hot swap LED, Audible alarm on Power Supply Failure
8103 H Standard Definition H.264 Encoder/ Server Blade	<ul style="list-style-type: none"> • H.264 Encoding • Input format: NTSC, PAL • 4:3 Aspect Ratio Resolutions: D1, SIF (NTSC), QSIF (NTSC), CIF (PAL), QCIF (PAL), 400x304, 384x288 (PAL), 640x480, 320x240, 128x96, 192x144 • 16:9 Aspect Ratio Resolutions: 656x368, 512x288 (PAL), 256x144 • Video Frame Rates: 0.5, 1, 2, 3, 5, 6, 7.5, 10, 15, 30 fps (NTSC) 0.5, 1, 2.5, 5, 12.5, 25 (PAL) • Constant Bit Rate / Constant Frame Rate • User-defined key frame interval • Rates: 32 Kbps - 10 Mbps • Inputs: Composite, S-Video, or SDI (SDI input only available on the High Definition models) • Rate control • Deblocking filter • Main profile • Baseline profile
8103 H-HD High Definition and HD-Ready H.264 Encoder/ Server Blades	<ul style="list-style-type: none"> • H.264 Encoding (to 720p for HD, 480p/576p for HD-Ready) • High Definition input formats: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p • 16:9 Aspect Ratio Resolutions: All standard definition resolutions listed above, plus 480i/p (720x480), 576i/p (720x576), 720p (1280 x 720) • Video Frame Rates: 0.5, 1, 2, 3, 5, 6, 7.5, 10, 15, 30 fps (NTSC)0.5, 1, 2.5, 5, 12.5, 25 (PAL) • Constant Bit Rate / Constant Frame Rate • User-defined key frame interval • Rates: 32 Kbps - 10 Mbps • Inputs: 3G-SDI, HD-SDI, HDMI™, and Component • Rate control • Deblocking filter • Baseline profile • HD-Ready Blade upgradable to HD
All H.264 Blades	<ul style="list-style-type: none"> • 1x8 character LCD display with alarm indication • Audio Encoder: AAC-LC and AAC-HE Encoding, Sample Frequency 8 Khz to 48 Khz, Rates: 8 Kbps to 256 Kbps, Audio Modes: Stereo, Mono, Inputs: Unbalanced, balanced, and microphone via Minijack. Audio inputs can also come through the HDMI, SDI inputs (HDMI and SDI inputs available on High Definition models) • Push: Multiple concurrent unicast and multicast destinations • Server: Live multicast server, Live streaming server - up to 200 concurrent live streams • Ethernet Network: 10/100/1000 Mbps Ethernet via RJ-45, Static, or DHCP, Auto sense Full / Half duplex • Protocols: Unicast / Multicast, DiffServ (QoS), UDP / IP / RTSP / RTCP/RTP / HTTP / RTSP Interleave / IGMP • Maintenance/Control Port: Serial port for local maintenance or data transport • USB Port (future)

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