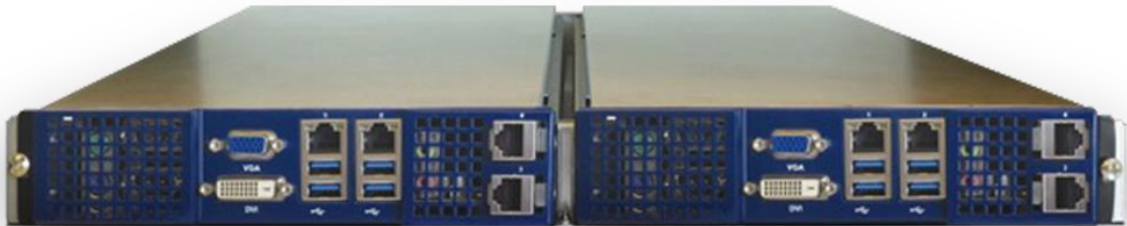
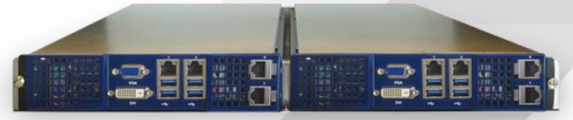


# Z-IP Adapt OTT Product Specifications



# Z-IP Adapt OTT

## Product Specifications



### Product Description

IP Transcoding and Streaming platform for delivery of HD/SD video to TVs and mobile devices. Supports MPEG-2 and H.264 transport stream input. Transcode to H.264 with various formats and wrappers including HLS, HDS, SST, Flash, UDP, TS, RTP. and monitoring tool. Processing capacity up to 4xHD or 15x SD transcoded channels. Built in combiner for generation of adaptive bit-rate streams. (ABR) Includes SNMP configurations and monitoring tool. Processing capacity up to 4xHD or 15x SD transcoded channels.

<b>Model</b>	<b>ZVBLD-500</b>	
<b>Physical Description</b>	<p><b>Enclosure:</b> Industrial-grade rugged aluminum case, rack-mount kit available as add-on</p> <p><b>Dimensions:</b> 1.41"H x 5.46"W x 4.66"D (36.00mmH x 138.85mmW x 118.5mmD)</p> <p><b>Weight:</b> 1.44lb (0.65Kg)</p> <p>Fan-less design with mounting holes for seamless installation in vehicles or onto flat surfaces 100% silent operation</p>	
<b>Management</b>	<p>Remote management with intuitive GUI</p> <p>SNMP Cluster Management System Controls multiple blades from single interface</p>	
<b>Encryption</b>	<p>Native interoperability with Verimatrix™ (HLS)</p> <p>DRM Generic Interface (DGI)</p> <p>Microsoft™ Piff Protection for Silverlight Smooth Streaming</p>	
<b>Video Processing Capacity</b>	<p>Up to 10 transcoding processes from IP or baseband video (digital and analog)</p> <p>Up to 3 unique ABR services with up to 3 profiles each</p> <p>Up to 12 x HD/SD-SDI, HDMI or Analog baseband live ingest in MGW-1100 (4-RU)</p> <p>Up to 20x HD/SD-SDI, HDMI or Analog baseband live ingest in MGW-5100 (10-RU)</p>	
<b>Pre-Processing</b>	<b>Video Pre-Processing</b>	<b>Audio Pre-Processing</b>
	<p>Adaptive de-interlacing</p> <p>Video resizing</p> <p>Aspect-ratio conversion or pass through</p> <p><b>Frame Rate Down-Conversion/Doubling:</b></p> <p>1080i to 720p</p> <p>Color enhancement</p> <p>Logo/Slate insertion</p>	<p>Automatic Gain Control</p> <p>Audio Level adjustment (per audio track)</p> <p>Stereo-to-mono down-mixing</p> <p>Audio re-sampling</p>
	<b>Input Streams</b>	<b>Streaming Formats</b>

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## Product Specifications



<p><b>Input Streams &amp; Streaming Formats</b></p>	<p><b>Video Codec:</b> MPEG-2 SD and HD H.264/MPEG-4 AVC SD and HD</p> <p><b>Audio Codec:</b> MPEG-1 Layer II, AAC, AC3, E-AC3</p> <p><b>Encapsulation:</b> MPEG-2 transport stream over UDP/IP</p> <p><b>Ancillary Data Pass-Through:</b> Up to 2 Teletext streams per video stream (SPTS) Up to 2 DVB-Subtitle streams per video stream (SPTS) Closed Captioning (CEA-608) Ad-insertion Q-tones (SCTE-35)</p>	<p>Apple™ HTTP Live Streaming (with embedded segmenter) Microsoft™ Live Smooth Streaming Microsoft Windows Media™ Adobe™ Flash HTTP Dynamic Streaming 3GPP/Edge RTP + RTCP/UDP IPTV &amp; PiP: SPTS/UDP</p> <p><b>Protocols:</b> FTP, HTTP, WebDAV, RTMP, UDP, RTP, RTSP</p>
<p><b>Encoding</b></p>	<p style="text-align: center;"><b>Video Encoding</b></p> <p>H.264/MPEG-4 AVC, BP/MP/HP, all levels, up to HD MPEG-2 MP@ML/HL, up to HD H.263 Profile 0 Level 45, QCIF or Sub-QCIF MPEG-4 SP Level 0 to 3, up to CIF VC-1, up to HD Multi-Bit Rate video encoding (MBR)/(ABR) Adaptive Bit Rate</p>	<p style="text-align: center;"><b>Audio Encoding</b></p> <p>Up to 8 discrete stereo audio pairs per video stream MPEG-1 Layer II (SPTS) AMR-NB (RTP) AAC, LC, HE v1, HE v2 in ADTS or LOAS/LATM</p>