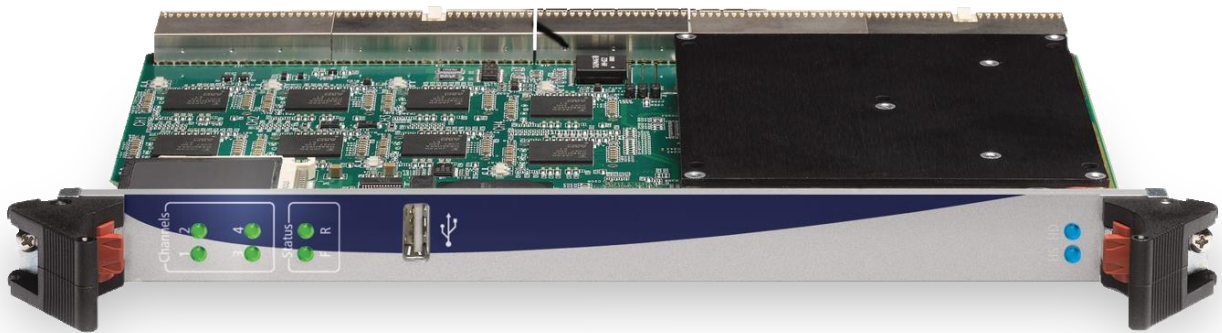


# Z-IP EncodeC REM Product Specifications



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## Product Specifications



### Product Description

The *Z-IP EncodeC REM* is a four channel encoding blade (Compatible with the Z-IP 4U & 10U Chassis) capable of encoding and streaming using MPEG-4 Part-10 (H.264) compression, secondary stream for streaming high+low flavors of each source, up to two stereo pairs per video source, AES 256/128-bit encryption for securing streams delivered to Z-Band's Z-IP Portal and IP set-top-boxes, real-time resolution and frame-rate downscaling, closed captions support, 4:3 and 16:9 aspect ratio encoding. Firmware upgrades allow for User Defined Channel assortment up to 4xSD or 4xHD sources of combinations.

<b>Model</b>	<b>ZBT0050118</b>	
<b>Physical Description</b>	<b>Enclosure:</b> Industrial-grade rugged aluminum case <b>Dimensions:</b> 1.41"H x 5.46"W x 4.66"D (36.00 mmH x 138.85mmW x 118.5mmD) <b>Weight:</b> 1.44lb (0.65Kg)	
<b>Electrical Power</b>	<b>Power Consumption:</b> 9-12VDC, max 13W <b>Four Status Indicator Lights:</b> Power, Network Activity, Streaming and Video Source	
<b>Input/Output</b>	<b>Available Input Blades:</b> <ul style="list-style-type: none"> <li>✓ 4 x Serial Digital Inputs, 75 OHms BNC connectors</li> <li>✓ HD/SD-SDI Interface</li> <li>✓ 4 x HDMI (HD/SD) with support for protected (HDCP) and unprotected sources</li> <li>✓ 4 x Composite analog inputs, 75 OHms BNC connectors (Analog interference)</li> </ul> <b>Audio Inputs:</b> <ul style="list-style-type: none"> <li>✓ Embedded audio up to 2 stereo pairs per video source for HD/SD-SDI and HDMI</li> <li>✓ Unbalanced analog audio (RCA connector) up to 2 stereo pairs per video source</li> </ul> <b>Transport Outputs:</b> <ul style="list-style-type: none"> <li>✓ MPEG-2 Transport Stream encapsulation over UDP/IP</li> </ul>	
<b>HD Encoding</b>	<b>Video Codec</b>	<b>Audio Codec:</b>
	Conforms to ISO/IEC 14496-10 (H.264/AVC) High Profile Level 4.0 1920 x 1080 59.94i/29.97p/60i/30p/50i 1280 x 720 59.94p/29.97p/60p/30p/50p <b>Chroma Sampling:</b> 4:2:0 <b>Encoding Rate:</b> 500 Kbps to 15 Mbps <b>Aspect Ratio:</b> 16:9	Up to 2 stereo pairs (embedded in SDI or HDMI, Unbalanced in Analog) <b>Sampling Frequencies:</b> 48 khz AAC LC (32 to 384 Kbps) MPEG 1 Layer 2 (32 to 384 Kbps) Mono, stereo

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	<p>CBR Support with Optibase Smoothing™ algorithm</p> <p>Downscaling from HD to HD and HD to SD (down to QCIF)</p>	
SD Encoding	Video Codec	Audio Codec
	<p>Conforms to ISO/IEC14496-10 (H.264/AVC) Baseline and 1 stereo pair for HDMI Main Profile Level 3.0</p> <p>720 x 480 x 29.97i/15i</p> <p>720 x 576 x 25i/12i</p> <p><b>Chroma Sampling:</b> 4:2:0</p> <p><b>Encoding Rate:</b> 200 Kbps to 6 Mbps</p> <p><b>Aspect Ratios:</b> 4:3 and 16:9</p> <p>CBR Support with Optibase Smoothing™ algorithm</p> <p>Various downscaling options to as low as QCIF resolution</p>	<p>Up to 2 stereo pairs embedded in SDI and Unbalancing in Analog, 1 stereo pair for HDMI</p> <p><b>Sampling Frequencies:</b> 48Khz</p> <p>16-bit support</p> <p>AAC LC (32 to 384Kbps)</p> <p>MPEG-1 Audio Layer 2 (56 to 384Kbps)</p>
Closed Captioning	CEA 608 from Line 21 and CEA 708 VANC extraction per SMPTE 334M	