

# Z-IP Encode 4MS Product Specifications



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## Product Specifications



### Product Description

The MPEG-4, H.264 encoding and streaming *Z-IP Encode 4MS* appliance supports one NTSC/PAL HD source up to 1080P. The device supports ultra-low latency streaming with Z-Band's Z-IP Video II Technology (4 milliseconds). The device is portable, fan-less and operates within a 100% silent enclosure. Supports both unicast and multicast streaming. Input sources include: 3G, HD-SDI or HDMI. SAP support and HTTP management interface. (Requires *Z-IP Decode 4MS*)

<b>Model</b>	<b>ZIP2-100 Encoder</b>	
<b>Physical Description</b>	<b>Enclosure:</b> Professional-grade rugged aluminum case, portable and rack-mount options available <b>Dimensions:</b> 1.69"H x 7.48"W x 4.64"D (42.92mmH x 190mmW x 118mmD) <b>Weight:</b> 1.90 lbs (1.11 Kg) Fan-less design with mounting holes for seamless installation in vehicles 100% silent operation	
<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>Network Protocols</b>	<b>Streaming:</b> RTP/RTCP unicast and multicast <b>Peripheral:</b> HTTP, SAP, IGMP	
<b>I/O Interfaces</b>	<b>Input Resolutions</b>	<b>Inputs</b>
	<b>1024 x 768p</b> 50, 60, 75 <b>1280 x 800p</b> 50, 60 <b>1366 x 768p</b> 50, 60 <b>1280 x 720p</b> 25, 29.97, 30, 59.94, 60 <b>1920 x 1080p</b> 23.975, 24, 25, 29.97, 30	<b>Video Input:</b> <ul style="list-style-type: none"> <li>✓ 1 x 3G / HD-SDI</li> <li>✓ 1x HDMI with support for HDCP / non-HDCP sources</li> </ul> <b>Audio Input:</b> <ul style="list-style-type: none"> <li>✓ Embedded audio via HD-SDI / SD-SDI</li> <li>✓ Embedded audio via HDMI</li> </ul> <b>Ethernet:</b> <ul style="list-style-type: none"> <li>✓ 1 x RJ45 10/100/1000 Mbps Base-T for streaming/management</li> </ul>
<b>Audio Format</b>	Embedded audio, PCM stereo, and mono modes <b>Bit Rate:</b> 48 Kbps - 196 Kbps	
<b>Video Format</b>	H.264 (ISO/IEC 14496-10 AVC MPEG-4 part 10)	

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	<p><b>Modes:</b></p> <ul style="list-style-type: none"><li>✓ Main Profile L3 &amp; L4</li><li>✓ Main Profile L4 &amp; L4.1</li></ul> <p><b>Bit Rate:</b> 5 Mbps – 40 Mbps</p> <p><b>Resolution:</b> Configurable up to Full HD 1920x1080p</p> <p><b>Frame Rate:</b> 25-60 fps</p>
Management	HTTP Web based remote management application Remote firmware and software upgrade capability
Environment	<b>Operating Temperatures:</b> 32°F to 122°F (0°C to 50°C) <b>Relative Humidity:</b> 5% to 95% (non-condensing)
Agency Standards	<b>EMC Standards:</b> FCC part 15 class B and CE Meets MIL-STD810F and MIL-STD461 specifications