

Z-IP Encode FEC Product Specifications



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Product Description

The MPEG-4, H.264 encoding and streaming *Z-IP Encode FEC* appliance supports one NTSC/PAL SD source. (Field upgradeable to 1080P high-definition with *Z-IP Encode FEC* firmware upgrade. The device supports low latency streaming with Z-Band's Z-IP Video Technology and Forward Error Correction via an integration with Zixi (65 milliseconds). It also provides video downscaling, frame rate and resolution control, and integrated hardware-based image stabilization. Allows for CoT/KLV metadata insertion. Input sources include; HD-SDI, SDI and HDMI. MISB/STANAG compliant and MIL-STD certified. AES 128/256 Encryption.

Model	ZIP2-410	
Physical Description	Enclosure: Industrial-grade rugged aluminum case Dimensions: 1.41"H x 5.46"W x 4.66"D (36.00mmH x 138.85mmW x 118.5mmD) Weight: 1.44lb (0.65Kg) Fan-less design with mounting holes for seamless installation in vehicles or onto flat surfaces 100% silent operation	
Electrical Power	Power Consumption: 9-12VDC, max 10W Four Status Indicator Lights: Power, Network Activity, Streaming and Video Source	
Network Protocols	Streaming: UDP, RTSP, SAP, MPEG-2 Transport encapsulation, unicast and multicast modes Peripheral: HTTPS, DHCP, NTP, SSH, SAP	
I/O Interfaces	Input Resolutions	Inputs
	1920 x 1080p 60, 59.94, 50, 30, 29.97, 25, 24 1920 x 1080i 60, 59.94, 50 1600 x 1200p 85, 60, 50 1366 x 768p 60, 50 1280 x 800p 60, 50 1280 x 768p 60, 50 1024 x 768p 60, 50 1280 x 720p 60, 59.94, 50, 30, 29.7, 25 720 x 480p 30, 29.97 720 x 480i 59.94 720 x 576p 25 720 x 576i 50	Video Input: <ul style="list-style-type: none"> ✓ 1 x HD-SDI/SD-SDI (SMPTE 259M-C, SMPTE 292M, SMPTE 274M, SMPTE 296M, SMPTE 424M, SMPTE 425M) ✓ 1 x HDMI (support for HDCP and non-HDCP protected sources) Audio Input: <ul style="list-style-type: none"> ✓ 1 x HDMI Embedded audio (Stereo and Mono) ✓ 1 x SDI Embedded audio (Stereo and Mono) Ethernet: <ul style="list-style-type: none"> ✓ 1 x RJ45 10/100/1000 Mbps Base-T for streaming/management

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Video Format	<p>H.264 (ISO/IEC 14496-10 AVC MPEG-4 part 10)</p> <p>Modes:</p> <ul style="list-style-type: none"> ✓ Baseline Profile L3 ✓ Main Profile L3 & L4 ✓ High Profile L4 & L4.1 <p>Bit Rate: 100 Kbps – 14 Mbps</p> <p>Resolution: Configurable up to 1920 x 1080p 30 / 1280 x 720p 60</p> <p>Frame Rate: 5-60 fps down sampling modes: third, half, three quarters</p>
Audio Format	<p>Stereo and mono modes x1 SDI Embedded or x1 HDMI Embedded</p> <p>Bit Rate: 32 Kbps – 256 Kbps in Stereo, 16Kbps – 128Kbps in Mono</p>
Management	<p>HTTP Web based remote management application</p> <p>Remote firmware and software upgrade capability</p>
Environment	<p>Operating Temperatures: 32°F to 122°F (0°C to 50°C)</p> <p>Relative Humidity: 5% to 95% (non-condensing)</p>
Agency Standards	<p>EMC Standards: FCC part 15 class B and CE MIL-STD461F Certified</p> <p>MTBF: Ground – 9.00 years. Airborne – 12.70 years (As per MIL-HDBK-217F)</p>