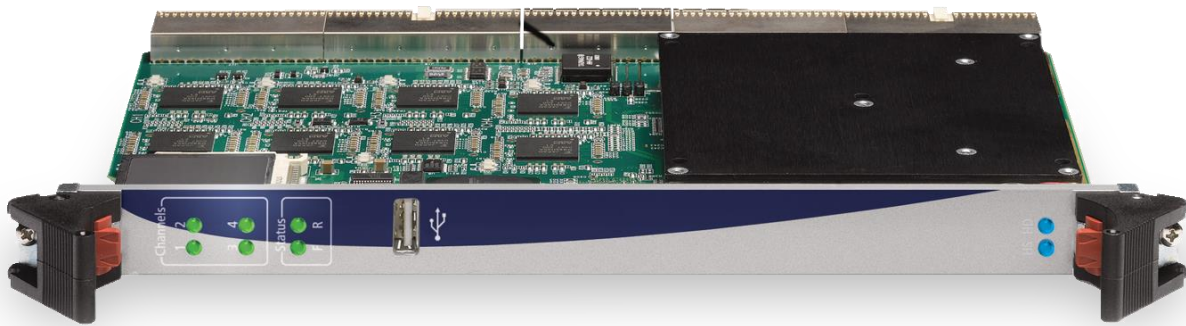


Z-IP EncodeC ONB Product Specifications



Z-IP EncodeC ONB

Product Specifications



Product Description

The *Z-IP EncodeC ONB* 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 Zip 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 available for increasing processing capacity.

Model	ZBT0050165	
Physical Description	Enclosure: Industrial-grade rugged aluminum case Dimensions: 1.41"H x 5.46"W x 4.66"D (36.00 mmH x 138.85mmW x 118.5mmD) Weight: 1.44lb (0.65Kg)	
Electrical Power	Power Consumption: 9-12VDC, max 13W Four Status Indicator Lights: Power, Network Activity, Streaming and Video Source	
Input/Output	Available Input Blades: <ul style="list-style-type: none"> ✓ 4 x Serial Digital Inputs, 75 OHms BNC connectors ✓ HD/SD-SDI Interface ✓ 4 x HDMI (HD/SD) with support for protected (HDCP) and unprotected sources ✓ 4 x Composite analog inputs, 75 OHms BNC connectors (Analog interference) Audio Inputs: <ul style="list-style-type: none"> ✓ Embedded audio up to 2 stereo pairs per video source for HD/SD-SDI and HDMI ✓ Unbalanced analog audio (RCA connector) up to 2 stereo pairs per video source Transport Outputs: <ul style="list-style-type: none"> ✓ MPEG-2 Transport Stream encapsulation over UDP/IP 	
HD Encoding	Video Codec	Audio Codec:
	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 Chroma Sampling: 4:2:0 Encoding Rate: 500 Kbps to 15 Mbps Aspect Ratio: 16:9	Up to 2 stereo pairs (embedded in SDI or HDMI, Unbalanced in Analog) Sampling Frequencies: 48 khz AAC LC (32 to 384 Kbps) MPEG 1 Layer 2 (32 to 384 Kbps) Mono, stereo

Z-IP EncodeC ONB

Product Specifications



	<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 720 x 576 x 25i/12i</p> <p>Chroma Sampling: 4:2:0</p> <p>Encoding Rate: 200 Kbps to 6 Mbps</p> <p>Aspect Ratios: 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>Sampling Frequencies: 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	