

The Z3-SBE264-25 is a single board encoder featuring on-board 3G-SDI, ASI, and HDMI interfaces supporting H.264 encode/decode in resolutions up to 1080p at 60 fps. This production-ready system is designed to simplify the overall system design by reducing time-to-market and overall costs. The versatile design makes this system ideal for applications such as broadcast video encoding and decoding, digital signage and video kiosks, medical and industrial video, MCUs and high definition embedded video sub-systems. With the single board design, the system designer is able to focus on the end application, with confidence that the Z3-SBE264-25 will handle all audio and video media operations required.

Z3-SBE264-25

Single Board Encoder



BENEFITS

- >3G-SDI, ASI, or HDMI H.264 Encoder
- > Production-proven, fully integrated hardware and software audio/video system
- >H.264 encode/decode in resolutions up to 1080p60
- > High density connectors to interface to all signals
- > Versatile design geared to reduce time-to-market and overall costs
- >Linux-based system, easy to customize if needed

APPLICATIONS

Output Formats

Input Formats

Features

Decoding Resolutions

Broadcast Video

Video Security and Industrial Video

Digital Signage and Video Kiosks

Medical Video

Customized Applications*

*Contact Z3 Technology for **Licensing and Customized Product Options**

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Hardware		
Module	Z3-SBE264-25	
Processor	DSP + ARM Cortex A8	
Video Codecs	H.264	
Interfaces	3G-SDI/ASI HDMI USB 2.0	GigE SATA2 UART
Audio Codecs	AAC or PCM	
Memory	DDR3: 1GB Flash: 256 MB	
Coffee	Note: The same jack serves as SDI or ASI. ASI output is available for encoder mode only. In decoder mode the jack is SDI output. ASI input is available for decode mode only. In encoder mode the BNC jack is SDI input.	
Software Development*	Texas Instruments® RDK, Z³ Technology software components for RDK, Z³ Applications	
Operating System*	Linux 2.x (root file-system, NAND boot, tool chain and flash programming tool), u-boot	
Encoding Resolutions	H.264 video up to 1080p60	

RTP, RTMP and MPEG-2 TS

H.264 video up to 1080p60

format and rate conversion

1920 x 1080 resolution

•Advanced video processing features such as scan,

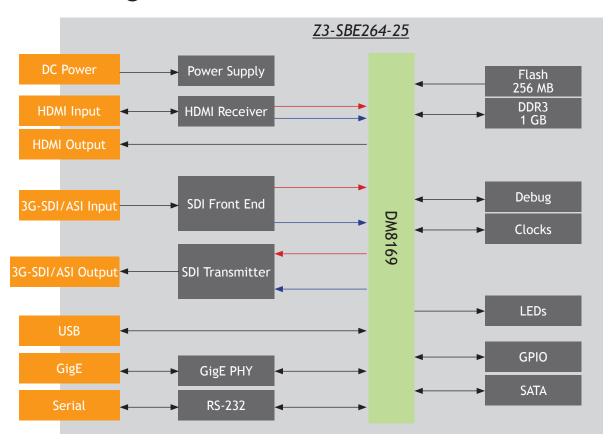
•Fully controllable parameters: resolution, max

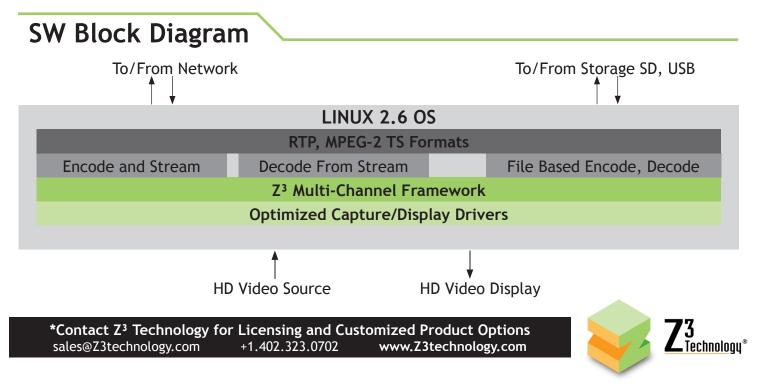
bitrate, GOP and on-the-fly bitrate control

•3D graphics and advanced display capabilities at up to

RTP and MPEG-2 TS

Specifications $(L \times W \times H) 5.03 \times 4.87 \times 1.22 in$ Module Size (L x W x H) 127.7 x 123.6 x 31 mm **Power Supply** 12V Typical Power Consumption 15W





Z³ Technology is the market leader in providing production-ready embedded multimedia solutions and systems. From our founders to our world-class engineers to our sales and customer service team, we understand your requirements and speak your language. Our experience allows us to provide cost-effective solutions to meet your multimedia product requirements. With the assistance of our robust worldwide distribution and sales networks, we can provide a simple solution for your multimedia needs.

