

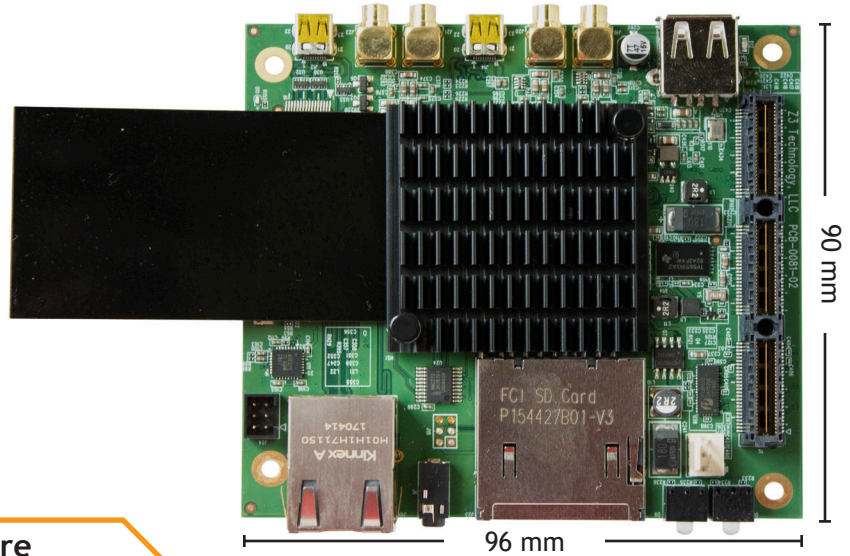


**Z3**  
Technology®

# Z3-SBE264-DVR-23

Single Board Encoder

The production-ready Z3-SBE264-DVR-23 is designed to simplify the overall system design while reducing time-to-market and overall costs. The Z3-SBE264-DVR-23 is a single board DVR/encoder supporting H.264 encode in resolutions up to 1080p60. On-board 3G-SDI, HDMI and composite interfaces allow for immediate access to encoding capabilities. This compact system is the ideal solution for applications such as industrial video, and UAS high definition embedded video systems. The versatile design allows the system designer to focus on the end application, with confidence that the Z3-SBE264-DVR-23 will handle audio and video media operations.



## BENEFITS

- > HDMI & 4x Composite H.264 Encoder
- > 3G-SDI Input
- > Production-proven, fully integrated hardware and software audio/video system
- > H.264 encode 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

Industrial Video

UAS

Medical Video

Customized Applications\*

**\*Contact Z<sup>3</sup> Technology for Licensing and Customized Product Options**

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## Hardware

Module	Z3-SBE264-DVR-23		
Processor	ARM Cortex A8 + Video Acceleration		
Video Codecs	H.264		
Interfaces	HDMI Input/Output	GigE	SD Card
	4x Composite Inputs	UART	USB 2.0
	1x 3G-SDI Input	PCIe/104	
Audio Codecs	AAC or PCM		
Memory	DDR3: 1GB Flash: 256 MB		

## Software

Software Development*	Texas Instruments® RDK, Z <sup>3</sup> Technology software components for RDK, Z <sup>3</sup> 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		
Output Formats	RTP, RTMP, RTSP, TSRTSP, TS File and MPEG-2 TS over UDP		
Features	<ul style="list-style-type: none"> <li>• Advanced video processing features such as scan, format and rate conversion</li> <li>• 3D graphics and advanced display capabilities at up to 1920 x 1080 resolution</li> <li>• Fully controllable parameters: resolution, max bitrate, GOP and on-the-fly bitrate control</li> </ul>		

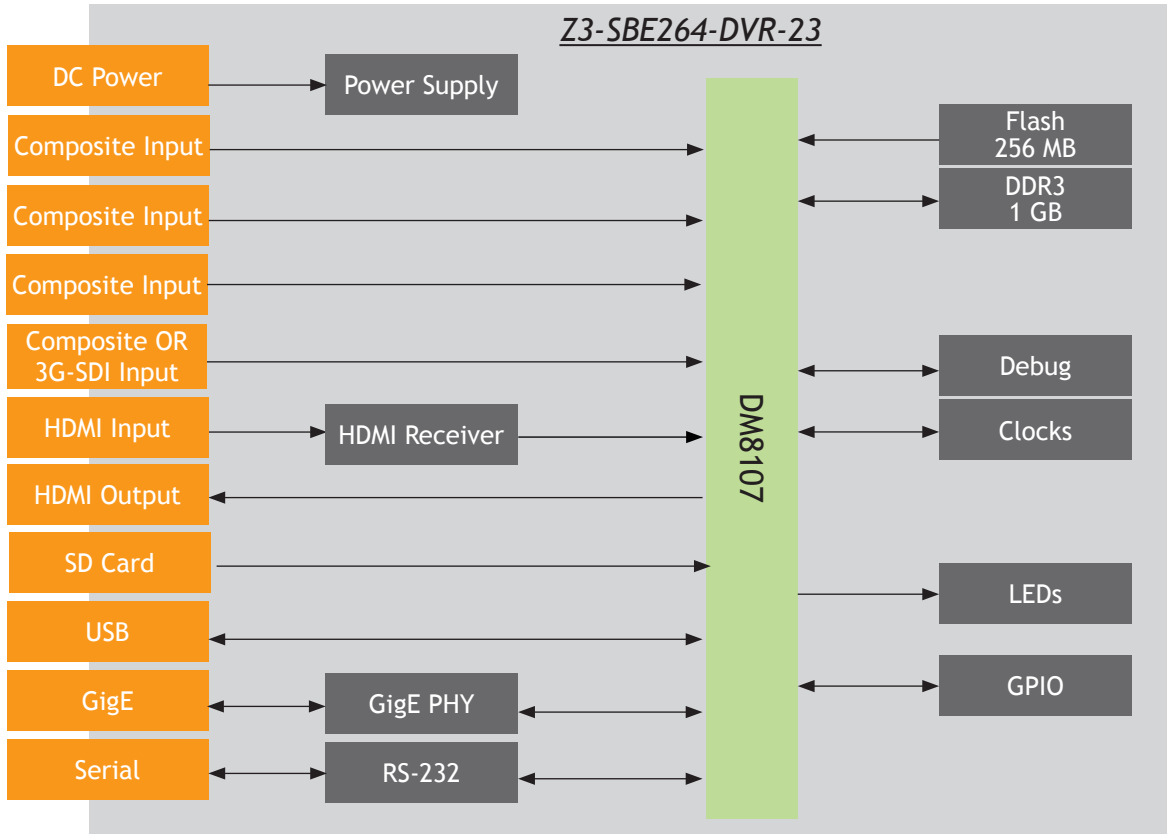
## Specifications



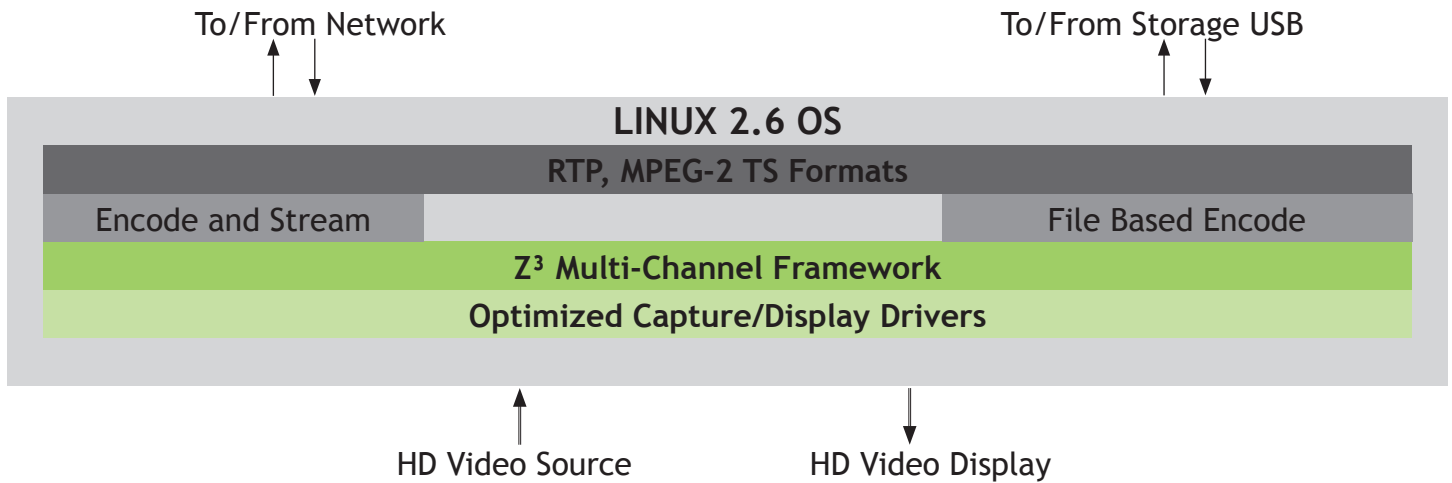
Size	(L x W) 90 x 96 mm
Board Weight	96g
Power Supply	5V
Typical Power Consumption	5W
Ambient Operating Temperature	-40 to 75 degrees Celsius
Ambient Storage Temperature	-40 to 90 degrees Celsius
Max Heat Sink Temperature Rating	95 degrees Celsius

# HW Block Diagram

# Z3-SBE264-DVR-23



# SW Block Diagram



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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.

