

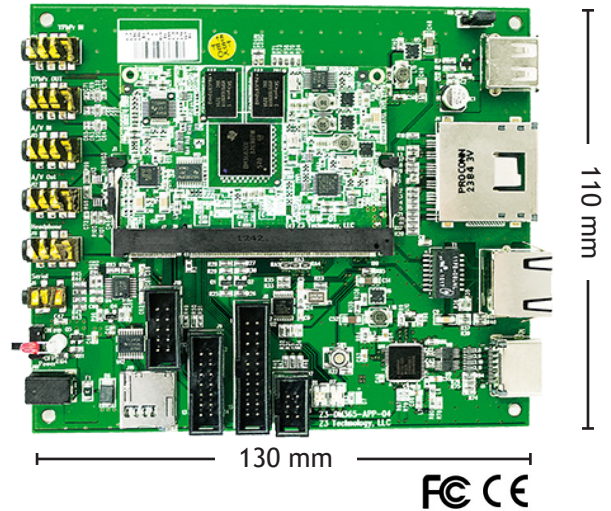


**Z3**  
Technology®

# Z3-DM368-RPS

## Rapid Production Starter Kit

The Z3-DM368-RPS is one of the most compact production-ready video encoder/decoder systems on the market. The system is equipped with one Z3-DM368-MOD-0x System on Module card and one Z3-DM365-APP-0x Application (I/O) Board which provides advanced video input and output capabilities. The Z3-DM368-MOD-0x is capable of producing H.264 video up to 1080p/i at 30 fps. The bundled software provides all of the necessary components for the user to develop their own advanced multimedia, graphics and DSP applications. The Z3-DM368-RPS offers customers immediate access to multi-format HD video, integrated system peripherals and production-qualified codecs so they can design low cost, video-driven portable and plugged products in a much smaller form factor.



### BENEFITS

- > Versatile encoding modes such as: low latency, low bitrate and high quality
- > Production-proven, fully integrated hardware and software audio/video system
- > Easily controlled through RS-232 or an HTTP-based GUI
- > Full A/V synchronization even after hours of recording
- > Ready to use, out-of-the-box commands for encoding, decoding and streaming

### APPLICATIONS

- Broadcast Video
- Video Security and Industrial Video
- Digital Signage and Video Kiosks
- Internet Gaming
- Networked Multimedia Appliance
- Customized Applications\*

**\*Contact Z3 Technology for Customized Product Options**

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### Hardware

Module	Z3-DM368-MOD-0x
Application Board	Z3-DM365-APP-0x
Processor	ARM9
Video Inputs	Component and Composite
Video Outputs	HDMI, Component and Composite
Video Codecs	H.264 and MPEG-2
Audio Interfaces	Analog Stereo
Audio Codecs	AAC, G.711 and PCM
Additional Interfaces	Ethernet, SD Card, USB 2.0, Headphone and Serial

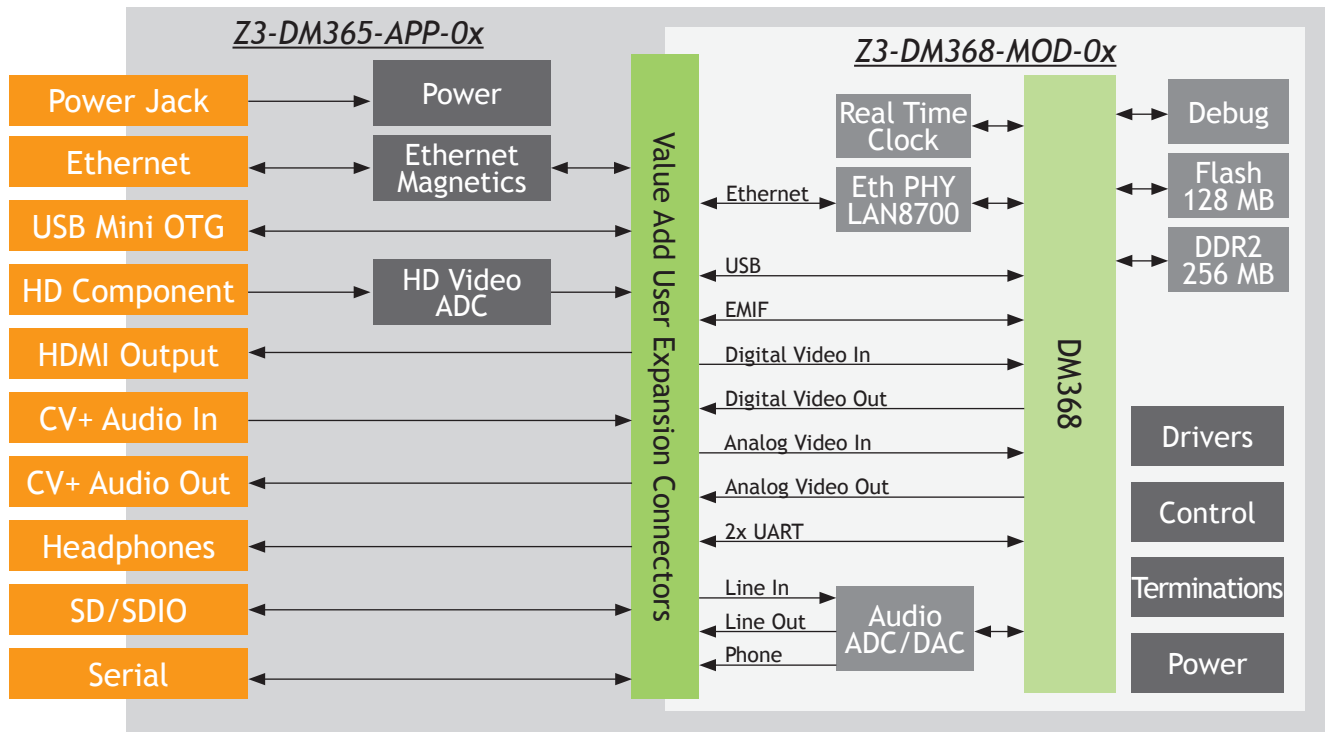
### Software

Software Development	Texas Instruments® DVSDK, Z3 Technology software components for DVSDK, Z3 Applications
Operating System	Linux 2.6 (root file-system, NAND boot, tool chain and flash programming tool), u-boot
Encoding Resolutions	H.264 video from QCIF to 1080p/i at 30 fps
Output Formats	RTP, MPEG-2 TS and MPEG-2 TS over RTP
Decoding Resolutions	H.264 video from QCIF to 1080p/i at 30 fps
Input Formats	RTP, RTSP, MPEG-2 TS and MPEG-2 TS over RTP
Features	<ul style="list-style-type: none"> <li>• File-based GStreamer encoder/recorder- H.264 up to 1080p/i at 30 fps recording to file</li> <li>• Fully controllable parameters: resolution, max bitrate, GOP size and on-the-fly bitrate control</li> <li>• Source code license available*</li> <li>• DVR application available for an additional license*</li> </ul>

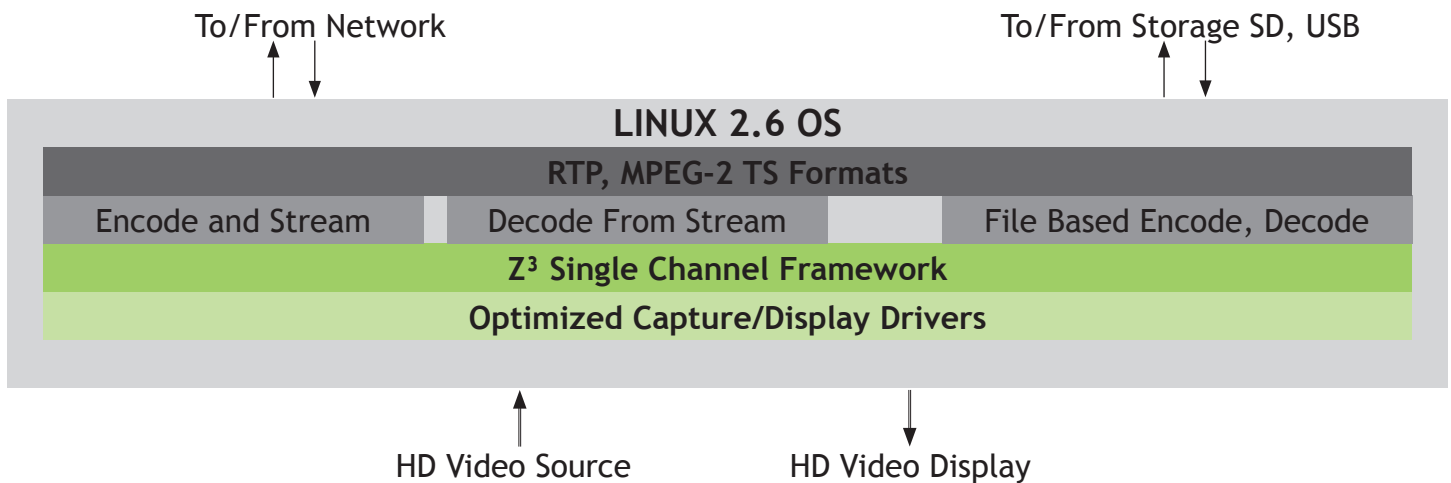
### Specifications

Module Size	68 x 44 mm (2.68 x 1.73 in)
Application Board Size	130 x 110 mm (5.12 x 4.33 in)
Power Supply	5V
Power Consumption	2.6W

## HW Block Diagram



## SW Block Diagram



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