

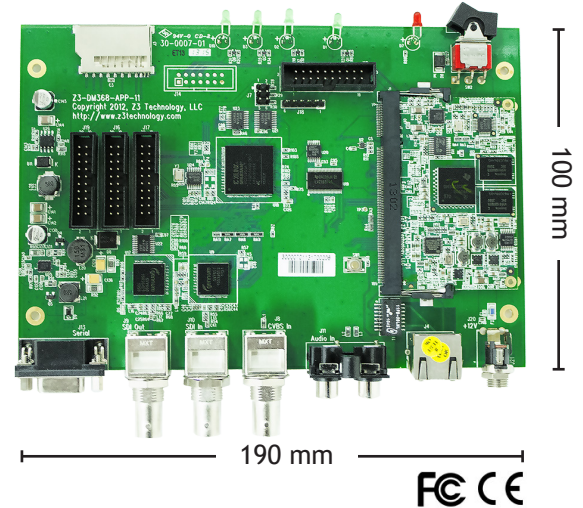


**Z3**  
Technology®

# Z3-DM368-SDI-RPS

## Rapid Production Starter Kit

The Z3-DM368-SDI-RPS development system provides the hardware and software needed to quickly handle SDI and ASI video. Measuring only 68 x 44 mm, the Z3-DM368-MOD is the most compact production-ready DM368 based video encoder/decoder system-on-module on the market. The Z3-DM368-SDI-RPS supports real-time high definition video input and analog audio input. The hardware provided includes one Z3-DM368-MOD System on Module card and one Z3-DM368-APP-1x Application (I/O) Board, which provides advanced video input and output capabilities. The bundled software includes all necessary components for the user to develop their own advanced multimedia, graphics and DSP applications.



### 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
- Medical Video
- Commercial and Educational Video
- Customized Applications\*

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

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### Hardware

Module	Z3-DM368-MOD-0x
Application Board	Z3-DM368-APP-1x
Processor	ARM9
Video Inputs	HD-SDI, Composite and ASI
Video Outputs	ASI and HD-SDI
Video Codecs	H.264 and MPEG-2
Audio Interfaces	Analog Stereo
Audio Codecs	AAC, G.711 and PCM
Additional Interfaces	Ethernet, SD Card and Serial

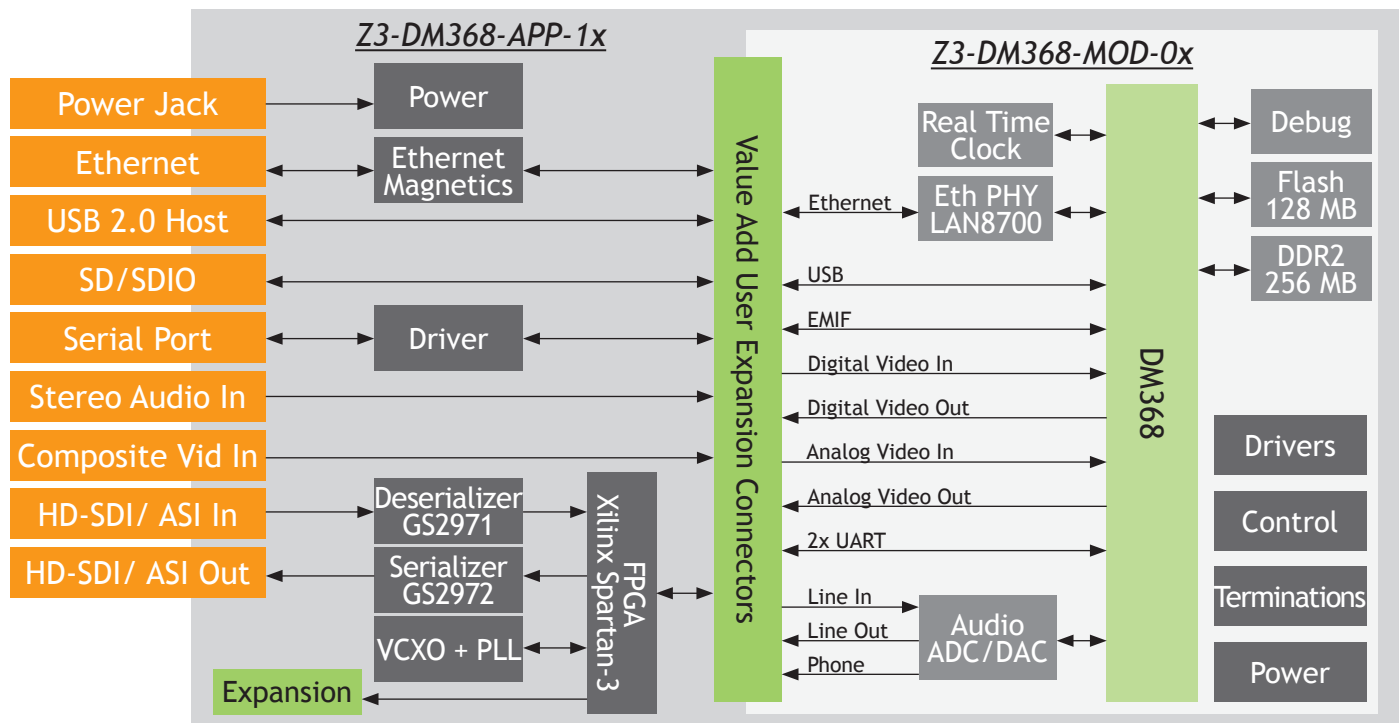
### Software

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, RTMP 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>• Closed Captioning (EIA-608, EIA-708)</li> <li>• Low latency mode</li> <li>• Flexible resizer to allow full frame display of smaller resolutions</li> <li>• Fully controllable parameters: resolution, max bitrate, GOP size and on-the-fly bitrate control</li> <li>• Source code license available*</li> </ul>

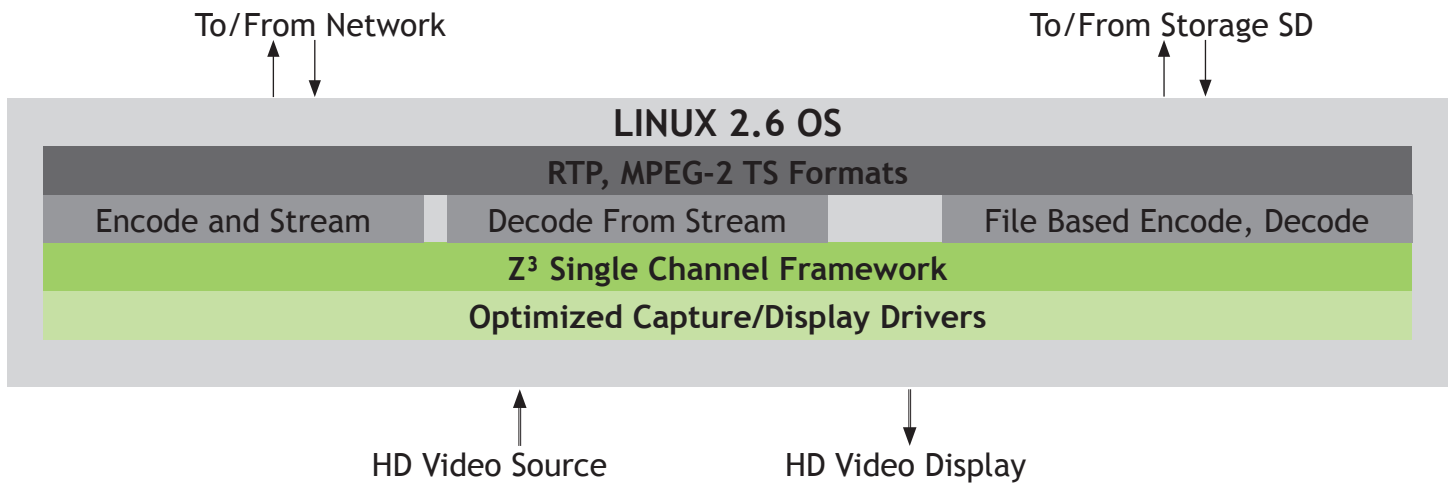
### Specifications

Module Size	68 x 44 mm (2.68 x 1.73 in)
Application Board Size	190 x 100 mm (7.48 x 3.94 in)
Power Supply	12V
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.