

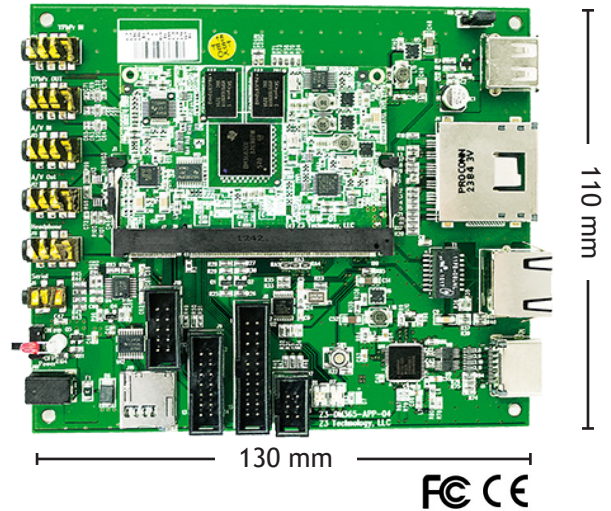


Z3
Technology®

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 |

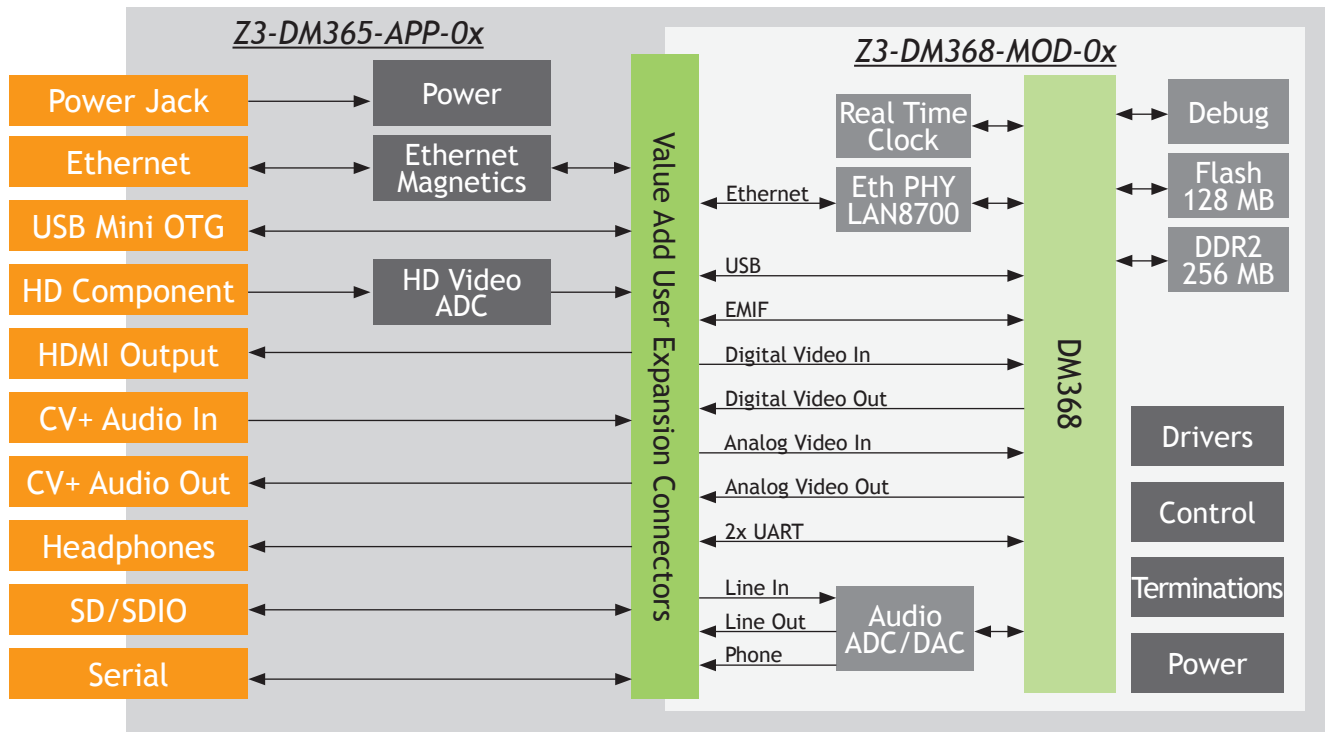
Software

| | |
|----------------------|---|
| 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"> • File-based GStreamer encoder/recorder- H.264 up to 1080p/i at 30 fps recording to file • Fully controllable parameters: resolution, max bitrate, GOP size and on-the-fly bitrate control • Source code license available* • DVR application available for an additional license* |

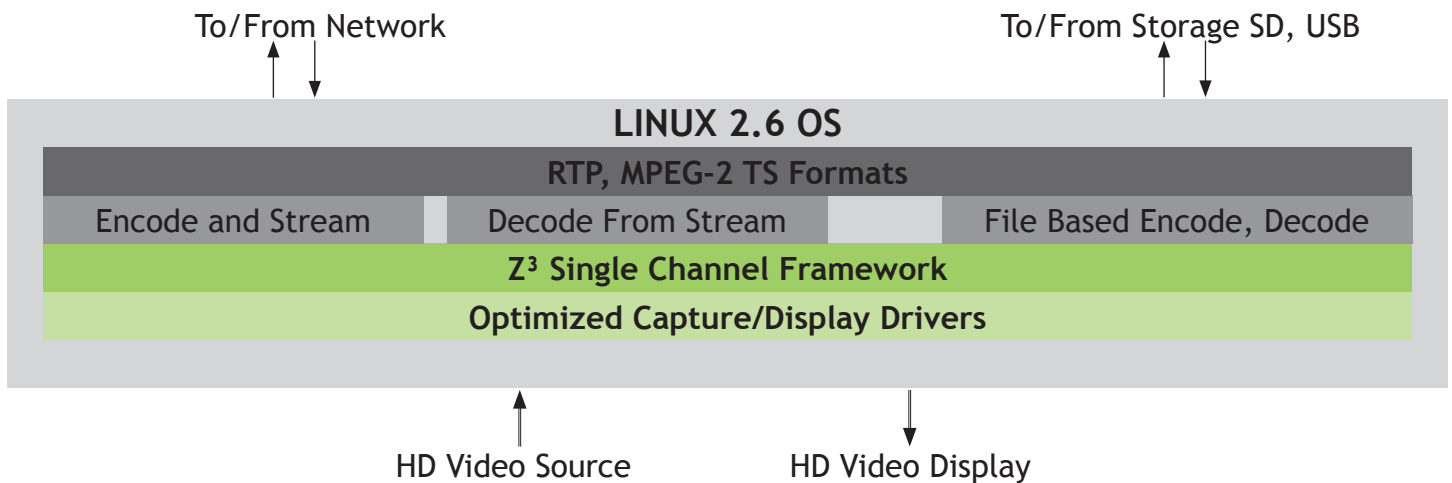
Specifications

| | |
|------------------------|-------------------------------|
| 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



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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.