

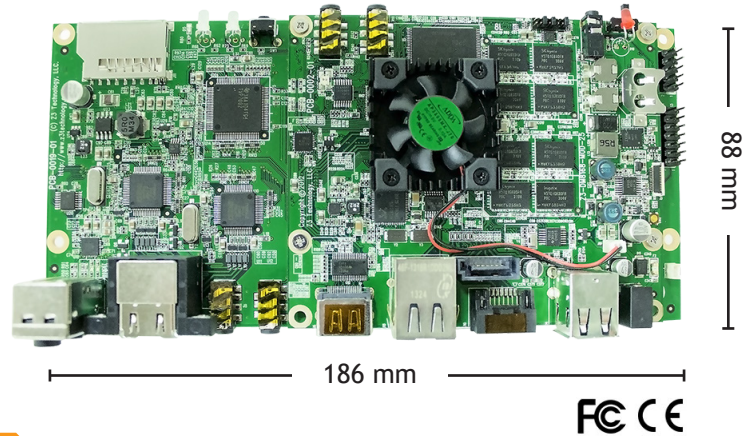


Z3
Technology®

Z3-DM8168-RPS

Rapid Production Starter Kit

The Z3-DM8168-RPS is a starter kit that allows single or dual channel H.264 encode and decode up to 1080p60. The Z3-DM8168-RPS consists of a hardware package and software bundle designed to enable rapid development of multimedia applications. The hardware consists of one Z3-DM816x-MOD-2x System on Module card and one Z3-DM8168-APP-0x Application (I/O) Board. The software bundle consists of the necessary components for developing advanced multimedia, graphics, and DSP applications. The Z3-DM816x-MOD-2x is a compact OEM module that enables encode up to 1080p60. Encode can be to stream or file and decode can be from stream or file. The application board uses the I/O expansion capability of the Z3-DM816x-MOD-2x to implement additional functions not present in the base module.



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 Surveillance
- Medical and Industrial Video
- Digital Signage and Video Kiosks
- Video Conference Terminals
- Customized Applications*

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

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Hardware

Module	Z3-DM816x-MOD-2x
Application Board	Z3-DM8168-APP-0x
Processor	DSP + ARM Cortex A8
Video Inputs	2x HDMI, 2x Component and 2x Composite
Video Outputs	HDMI, Component and Composite
Video Codecs	H.264
Audio Interfaces	Analog Stereo and Embedded HDMI
Audio Codecs	AAC, G.711* and PCM*
Additional Interfaces	GigE, SD Card, SATA2, 2x USB 2.0 and Serial

Software

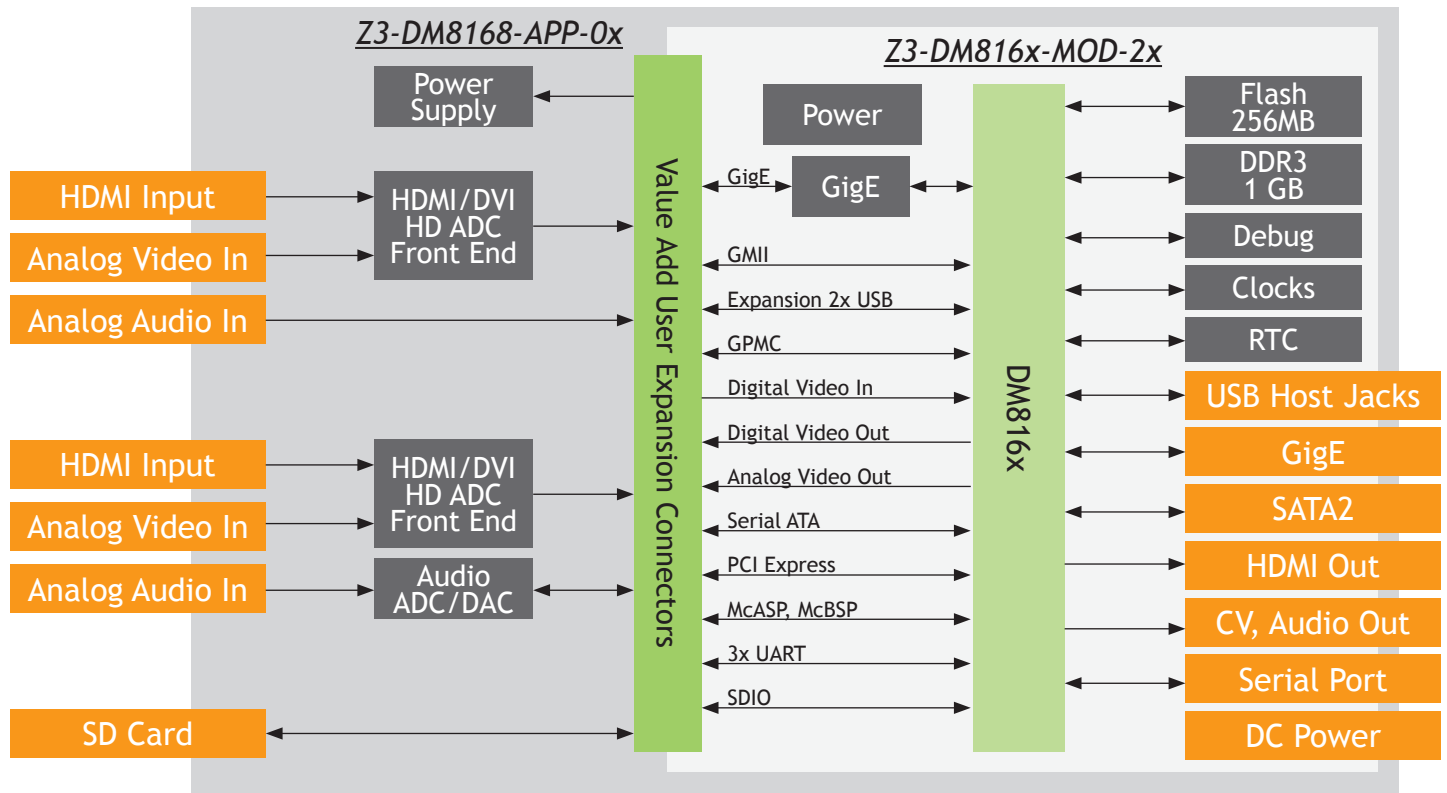
Software Development	Texas Instruments® RDK, Z3 Technology software components for RDK, Z3 Applications
Operating System	Linux 2.6 (root file-system, NAND boot, tool chain and flash programming tool), u-boot
Encoding Resolutions	H.264 video from QCIF to 1080p/i at 60 fps Dual channel encode up to 2x 1080p60
Output Formats	RTP and MPEG-2 TS
Decoding Resolutions	H.264 video from QCIF to 1080p/i at 60 fps
Input Formats	RTP and MPEG-2 TS
Features	<ul style="list-style-type: none"> • Low latency mode • Flexible resizer to allow full frame display of smaller resolutions • Fully controllable parameters: resolution, max bit rate, GOP and on-the-fly bitrate control • File-based transcoder in H.264 and MPEG-2 available* • Source code license available*

Specifications

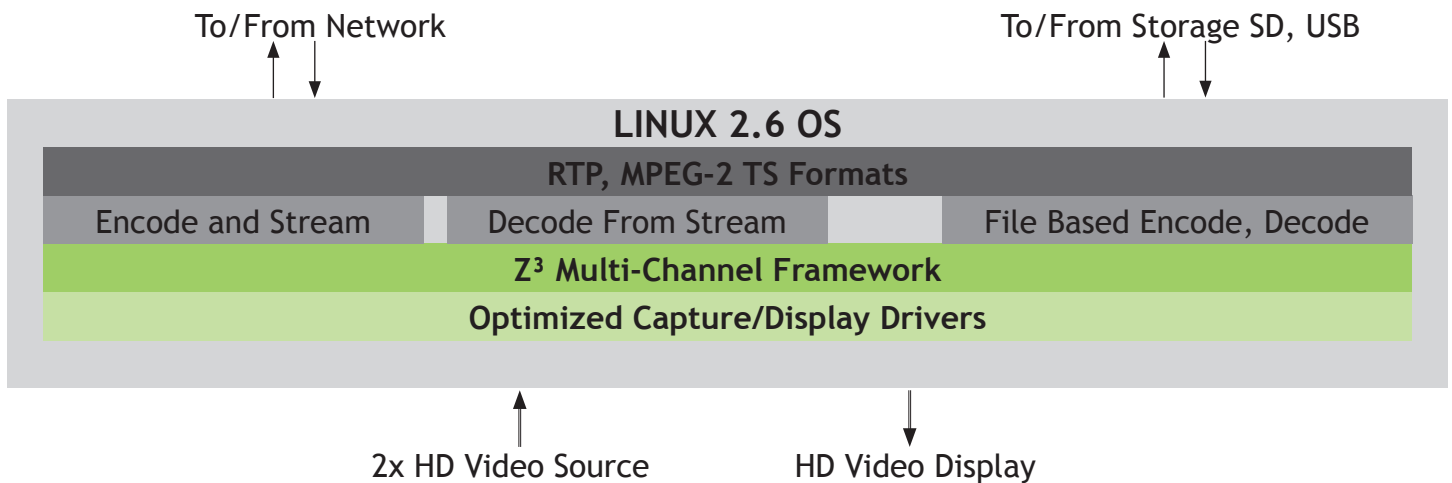
Module Size	108 x 88 mm (4.25 x 3.46 in)
Application Board Size	186 x 88 mm (7.32 x 3.46 in)
Power Supply	12V
Power Consumption	12W

HW Block Diagram

Z3-DM8168-RPS



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.