

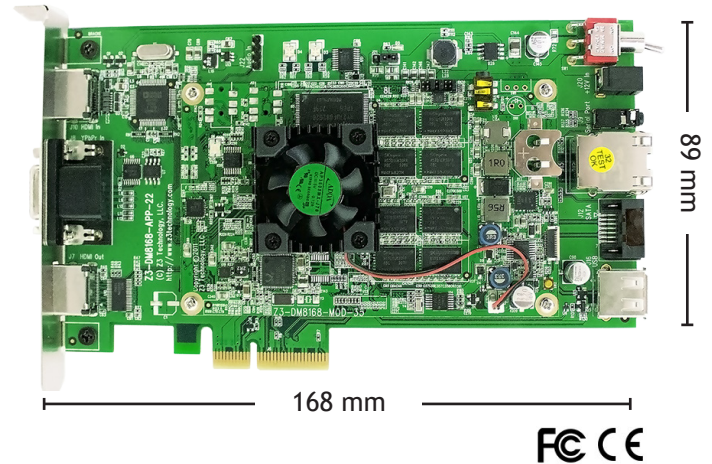


Z3
Technology®

Z3-DM8168-PCI-RPS

Rapid Production Starter Kit

The Z3-DM8168-PCI-RPS is a set of hardware boards, software tools, and applications designed to enable the rapid development of media-centric PCI Express applications. It includes a 2-lane PCIe interface that can plug into a 4-lane or 16-lane PCIe slot or a 1-lane PCIe slot with open back. The Z3-DM8168-PCI-RPS is designed to make standalone operation possible so that it can be developed and tested independently from any hosts. It contains one Z3-DM8168-MOD-3x System on Module, one Z3-DM8168-APP-2x Application (I/O) Board with PCI Express interface, as well as bundled software with all of the necessary components for the user to quickly develop their own advanced multimedia, graphics, and DSP applications.



BENEFITS

- > Versatile encoding modes such as: low latency, low bitrate and high quality
- > Standalone operation independent of PCIe host makes an easy development environment
- > Easily controlled through RS-232 or an HTTP-based GUI
- > Fully integrated hardware and software audio/video system
- > Ready to use, out-of-the-box commands for encoding, decoding and streaming

APPLICATIONS

- Digital Signage Applications
- Video Conference Terminal
- Video Security and Surveillance
- Medical and Industrial Video
- Broadcast Encoding
- Customized Applications*

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

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Hardware

Module	Z3-DM816x-MOD-3x
Application Board	Z3-DM8168-APP-2x
Processor	DSP + ARM Cortex-A8
Video Inputs	HDMI, Component and RGB
Video Outputs	HDMI
Video Codecs	H.264
Audio Interfaces	Analog Stereo and Embedded HDMI
Audio Codecs	AAC, G.711* and PCM*
Additional Interfaces	GigE, PCIe 2.0, SATA2, USB 2.0 and Serial

Software

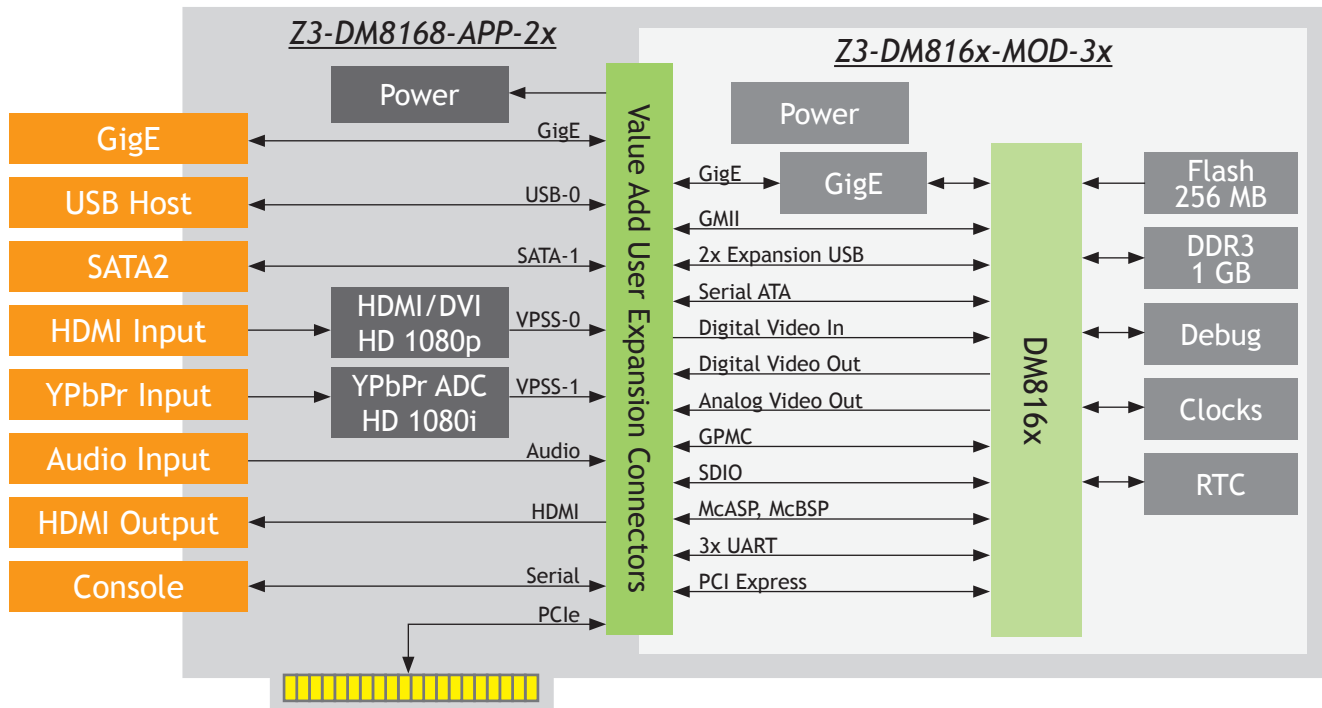
Software Development	Texas Instruments® RDK, Z3 Technology software components for RDK, Z3 Applications
Operating System	Linux 2.6 (root file-system, NAND boot, tool chain and flash programming tool), u-boot
Encoding Resolutions	H.264 video from QCIF to 1080p/i at up to 60 fps Dual channel encode up to 2x1080p/i at 60 fps
Output Formats	RTP and MPEG-2 TS
Decoding Resolutions	H.264 video from QCIF to 1080p/i at up to 60 fps
Input Formats	RTP and MPEG-2 TS
Features	<ul style="list-style-type: none"> • Fully controllable parameters: resolution, max bit rate, GOP and on-the-fly bitrate control • Low latency mode • Flexible resizer to allow full frame display of smaller resolutions • File-based transcoder in H.264 and MPEG-2 available* • Source code license available*

Specifications

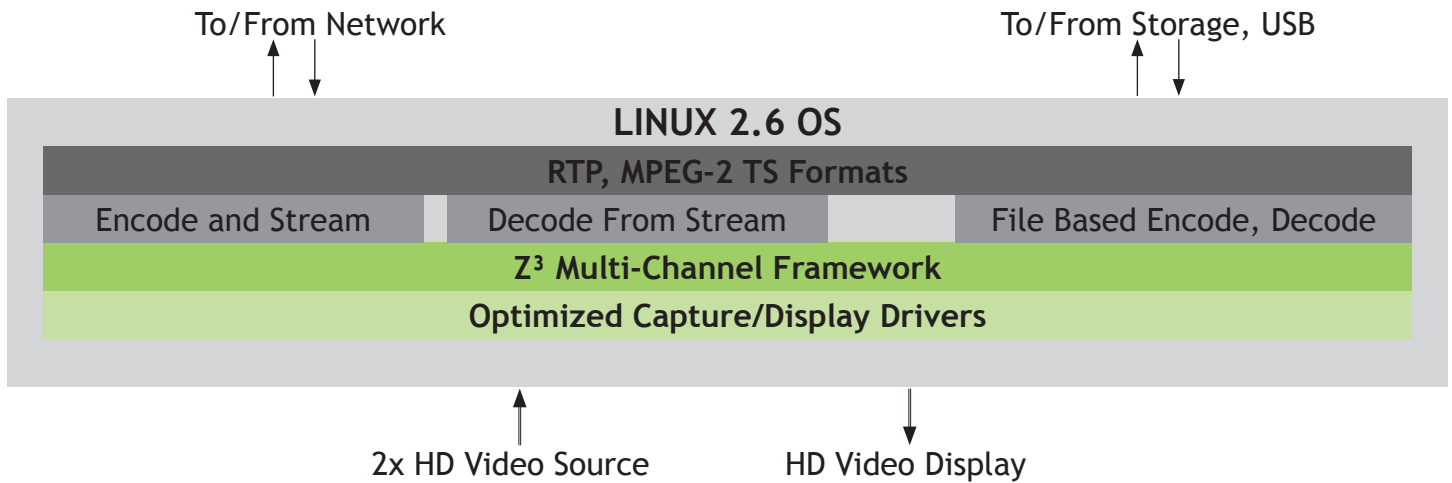
Module Size	108 x 68 mm (4.25 x 2.67 in)
Application Board Size	168 x 89 mm (6.61 x 3.50 in)
Power Supply	12V
Power Consumption	12W

HW Block Diagram

Z3-DM8168-PCI-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.

