

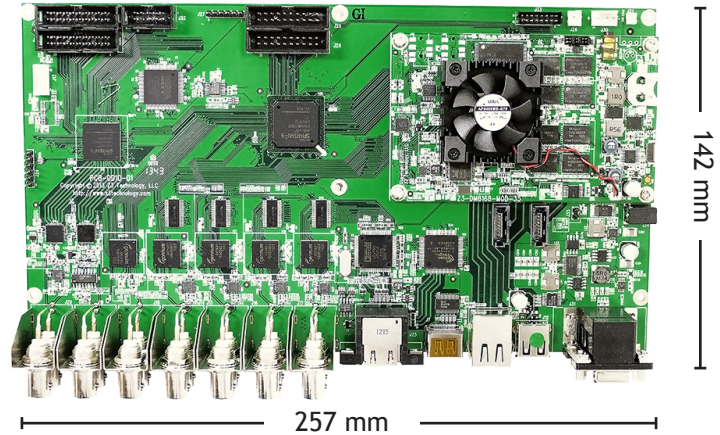


Z3
Technology®

Z3-DM8169-4CH-RPS

Rapid Production Starter Kit

The Z3-DM8169-4CH-RPS starter kit allows H.264 High Profile encoding of up to 4x 1080i streams. Multiple interfaces allow customers to quickly integrate H.264 performance into their network while maintaining low power consumption. This solution provides immediate access to integrated system peripherals and production-qualified codecs. The hardware consists of one Z3-DM816x-MOD-3x System on Module card with one Z3-DM8168-APP-5x Application (I/O) Board. The software includes Linux kernel and application packages to allow users to develop their own advanced multimedia, graphics and DSP applications. The application board uses the I/O expansion capability of the Z3-DM816x-MOD 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 Encoding
- Video Security and Surveillance
- Digital Signage and Video Kiosks
- Medical and Industrial Video
- Video Conference Terminals
- Customized Applications*

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

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Hardware

Module	Z3-DM816x-MOD-3x
Application Board	Z3-DM8169-APP-5x
Processor	DSP + ARM Cortex A8
Video Inputs	4x HD-SDI, 2x ASI and HDMI* (Optional)
Video Outputs	2x ASI, HD-SDI and HDMI* (Optional)
Video Codecs	H.264
Audio Interfaces	Embedded SDI
Audio Codecs	AAC, G.711* and PCM*
Additional Interfaces	GigE, 2x SATA2, USB 2.0 and Serial

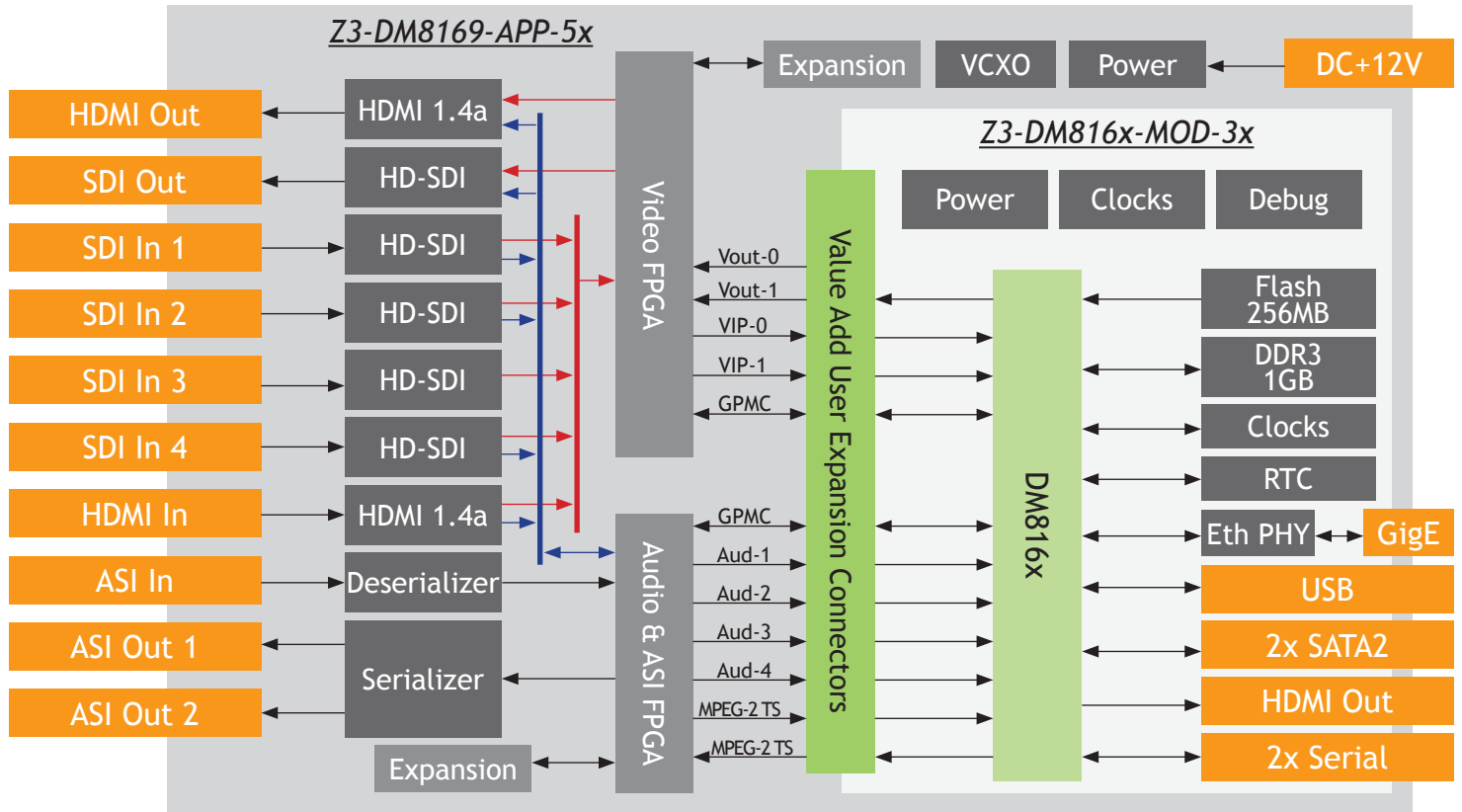
Software

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 single or multi-channel encode up to 4x 1080i
Output Formats	RTP, MPEG-2 TS, MPTS and TS File
Features	<ul style="list-style-type: none"> • Closed Captioning (EIA-708) • Low latency mode • Flexible resizer to allow full frame display of smaller resolutions • Fully controllable parameters: resolution, max bitrate, GOP and on-the-fly bitrate control • Source code license available*

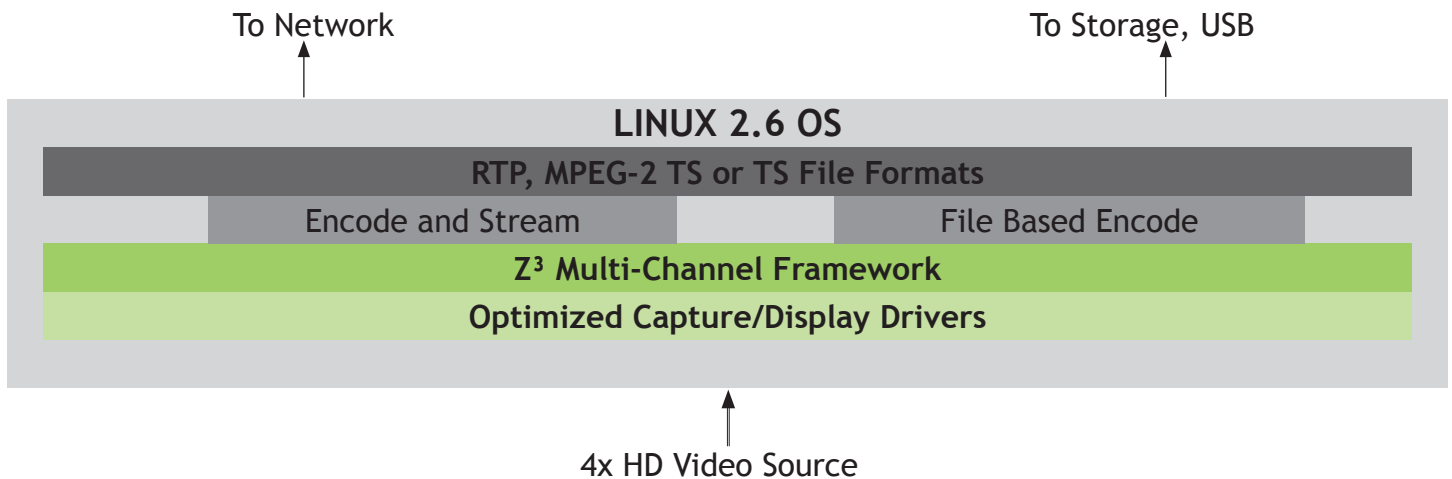
Specifications

Module Size	108 x 68 mm (4.25 x 2.67 in)
Application Board Size	257 x 142 mm (10.12 x 5.59 in)
Power Supply	12V
Power Consumption	14W

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.