

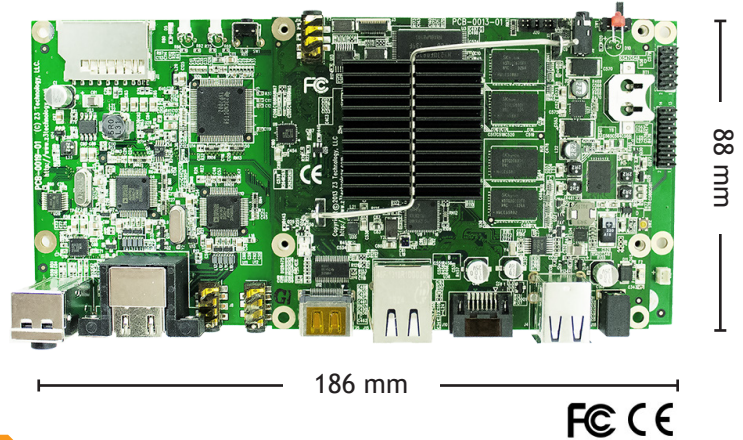


Z³
Technology®

Z3-DM8148-RPS

Rapid Production Starter Kit

The Z3-DM8148-RPS is a starter kit that allows encode and decode of up to one channel of 1080p60 in H.264. The Z3-DM8148-RPS consists of a hardware package and software bundle designed to enable rapid development of multimedia applications. The hardware consists of one Z3-DM8148-MOD-2x System on Module card and one Z3-DM8168-APP-0x application board. The software bundle consists of the necessary components for developing advanced multimedia, graphics, and DSP applications. The Z3-DM8148-MOD-2x is a compact OEM module and is especially suited for power-sensitive applications requiring a single video stream. The application board uses the I/O expansion capability of the Z3-DM8148-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

- Video Security and Surveillance
- Industrial Applications
- Medical Video
- Commercial and Educational Video
- Broadcast Video Encoding
- Customized Applications*

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

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Hardware

| | |
|-----------------------|---|
| Module | Z3-DM8148-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 and Composite |
| Video Codecs | H.264 and MPEG-2 |
| 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, Z ³ Technology software components for RDK, Z ³ 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 1080i |
| 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

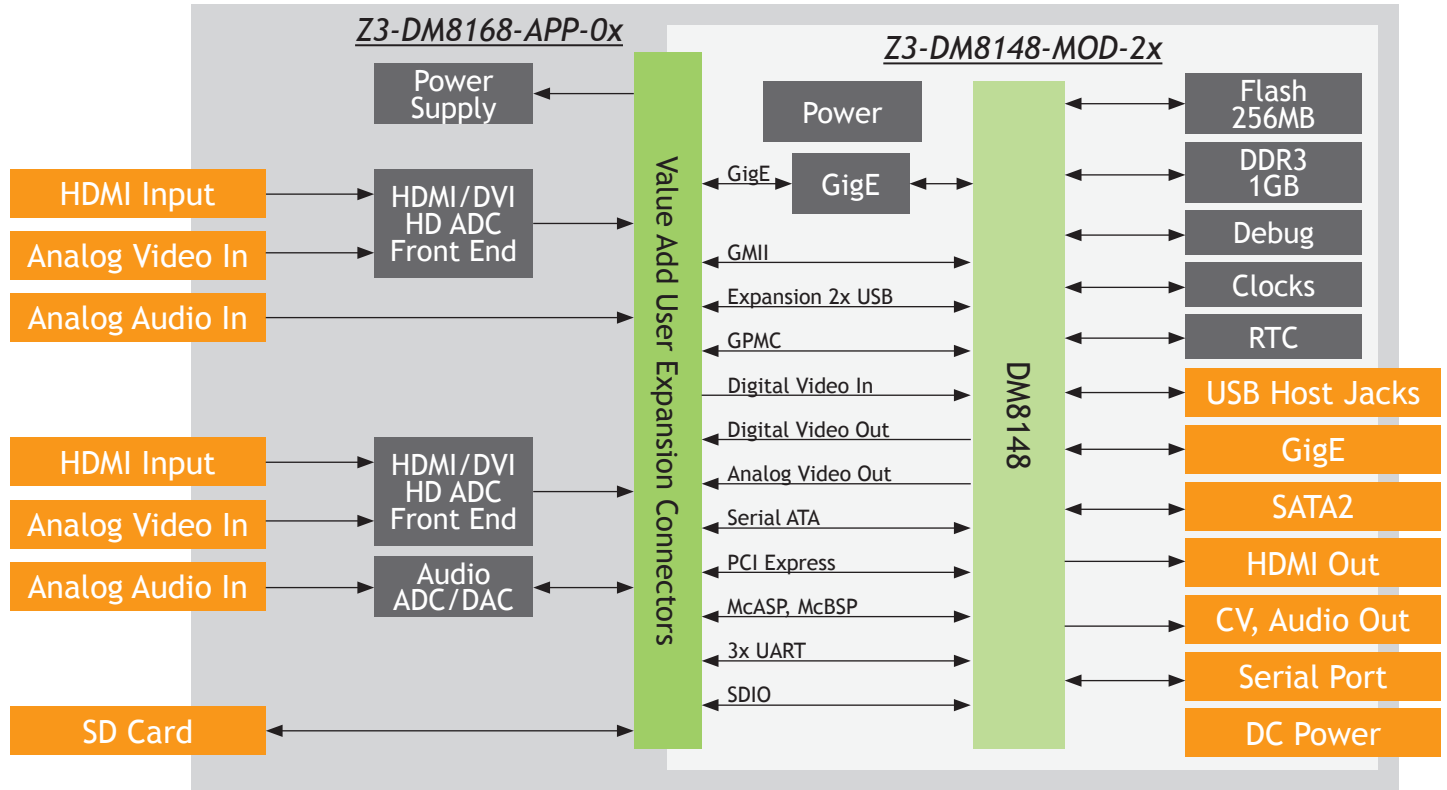
- Low latency mode
- Flexible resizer to allow full frame display of smaller resolutions
- Fully controllable parameters: resolution, max bitrate, GOP and on-the-fly bitrate control
- File-based transcoder in H.264 and MPEG-2 available*
- Source code license available*

Specifications

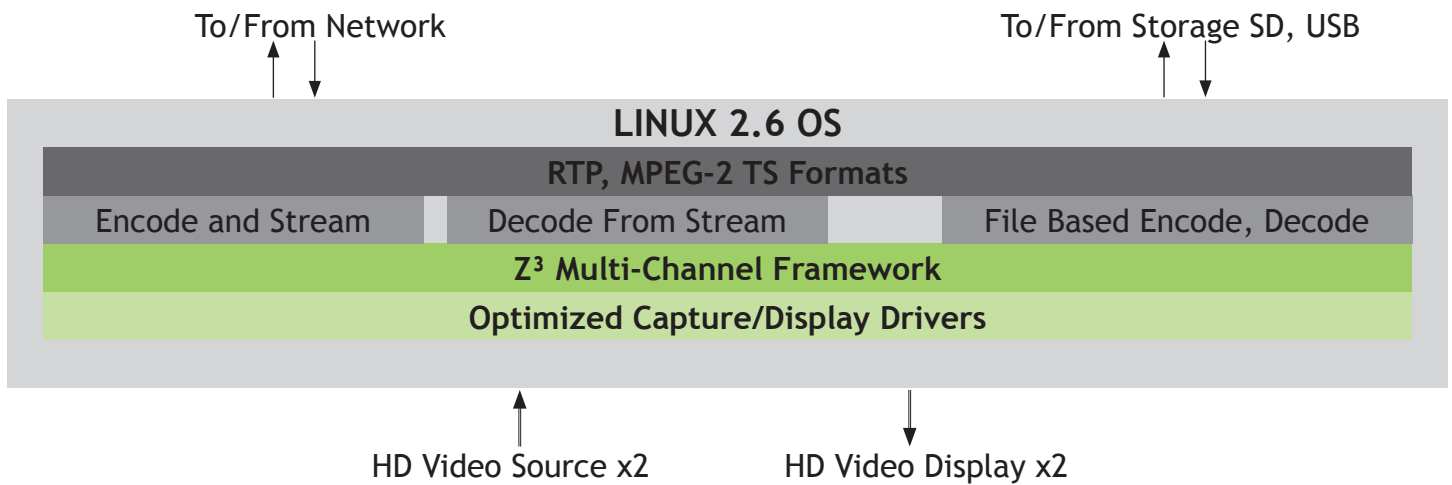
| | |
|------------------------|------------------------------|
| Module Size | 108 x 88 mm (4.25 x 3.46 in) |
| Application Board Size | 186 x 88 mm (7.32 x 3.46 in) |
| Power Supply | 12V |
| Power Consumption | 7W |

HW Block Diagram

Z3-DM8148-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.

