

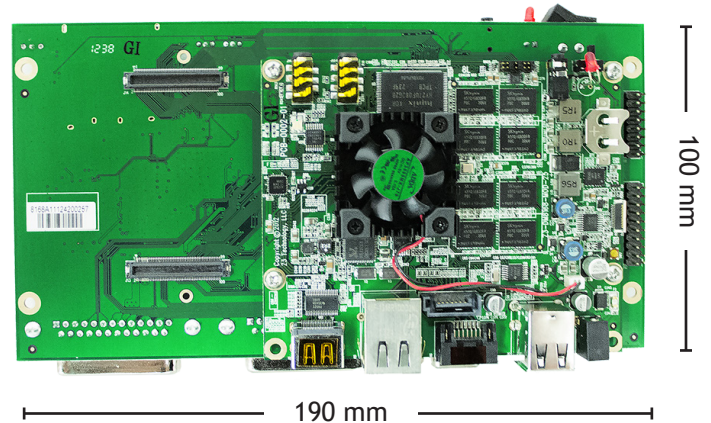


Z3
Technology®

Z3-DM8168-DVR-RPS

Rapid Production Starter Kit

The Z3-DM8168-DVR-RPS is a development system that allows simultaneous encode of up to 16 D1 channels. The hardware provided includes one Z3-DM816x-MOD-2x System on Module card and a Z3-DM8168-APP-1x Application (I/O) Board, which provides 16 channels of composite inputs. The bundled software includes all necessary components for the user to develop their own advanced multimedia, graphics and/or DSP applications. The Z3-DM816x-MOD-2x features a unique expansion interface comprised of five high density connectors providing access to the greatest majority of interface signals available from the processor. 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
- > Real-time transcoding at 1080p60
- > Ready to use, out-of-the-box commands for encoding, decoding and streaming

APPLICATIONS

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

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

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Hardware

Module	Z3-DM816x-MOD-2x
Application Board	Z3-DM8168-APP-1x
Processor	DSP + ARM Cortex A8
Video Inputs	16x Composite
Video Outputs	2x HDMI
Video Codecs	H.264
Audio Interfaces	Analog Stereo and Embedded HDMI
Audio Codecs	AAC, G.711* and PCM*
Additional Interfaces	GigE, SD Card, 2x SATA, 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	Multi-channel encode up to 16x D1 NTSC
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

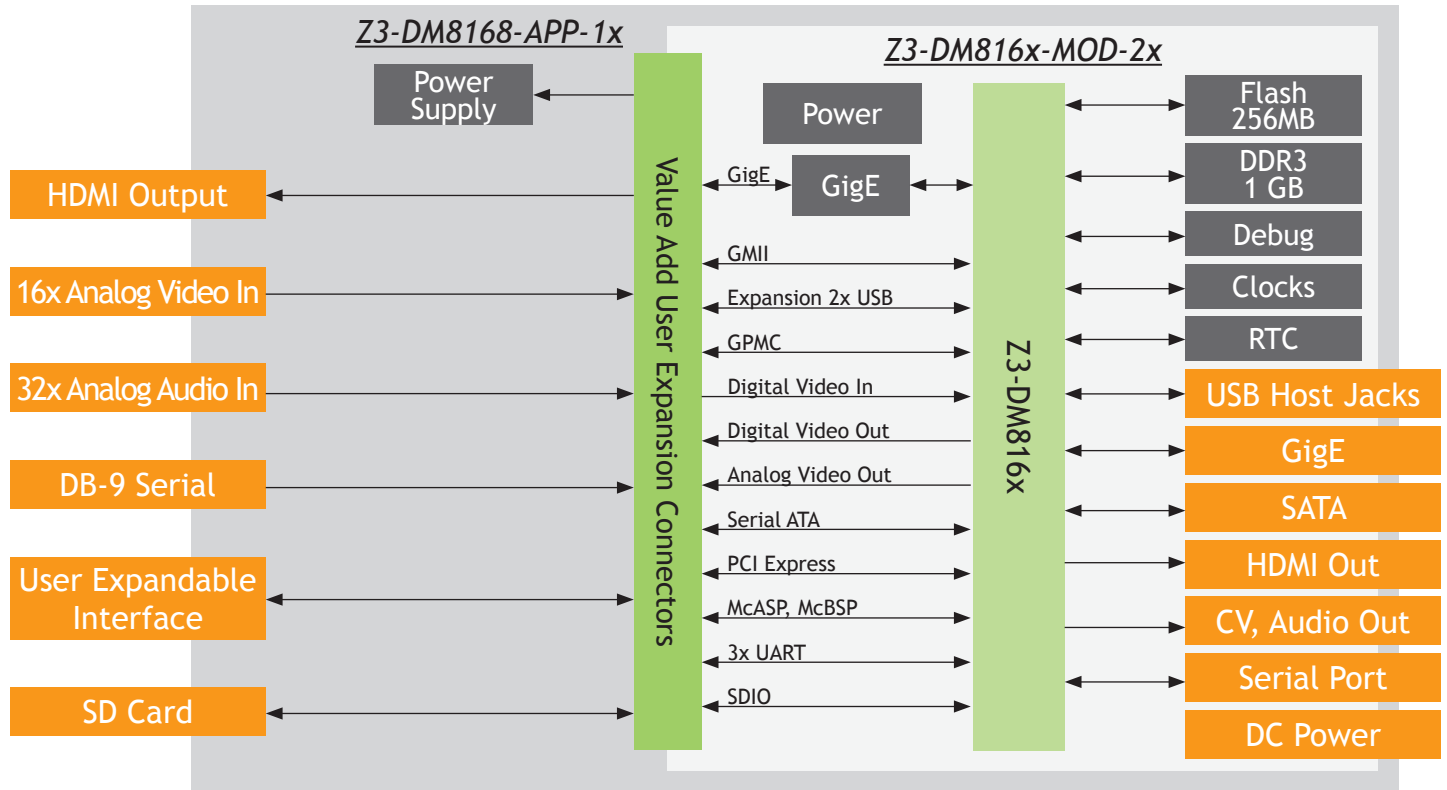
Features

- 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
- Source code license available*

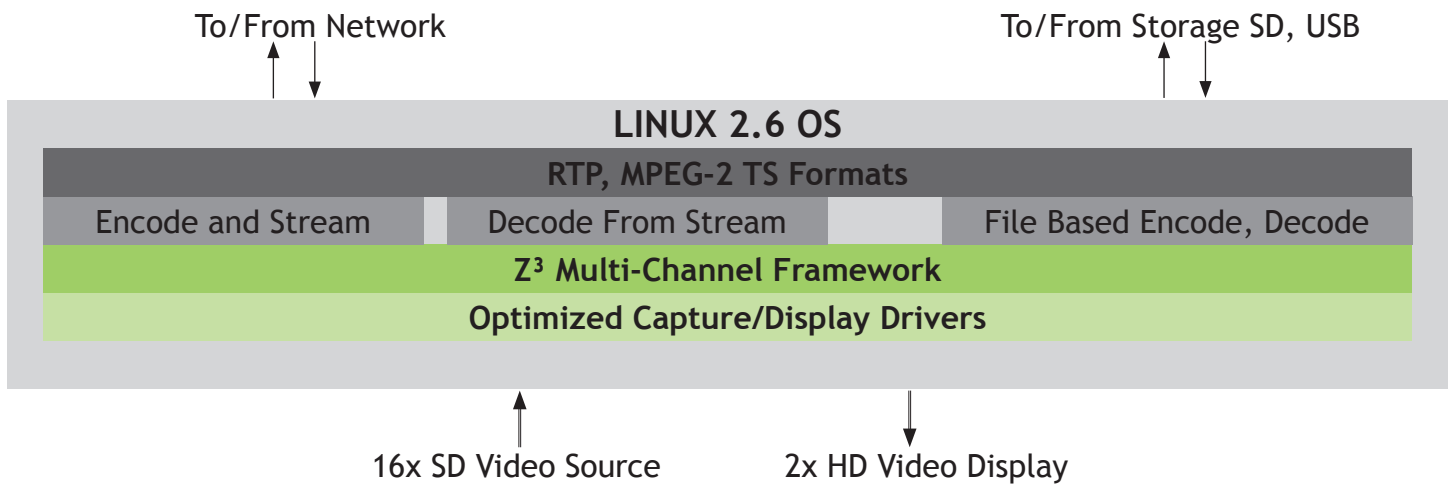
Specifications

Module Size	108 x 88 mm (4.25 x 3.46 in)
Application Board Size	190 x 100 mm (7.48 x 3.94 in)
Power Supply	12V
Power Consumption	12W

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.