



**Z<sup>3</sup>**  
Technology, LLC

# H.264 1080p60 System

Product Part Number Z3-DM8148-RPS

***DON'T REINVENT VIDEO, Z3 SLASHES TIME TO MARKET!***

## Applications

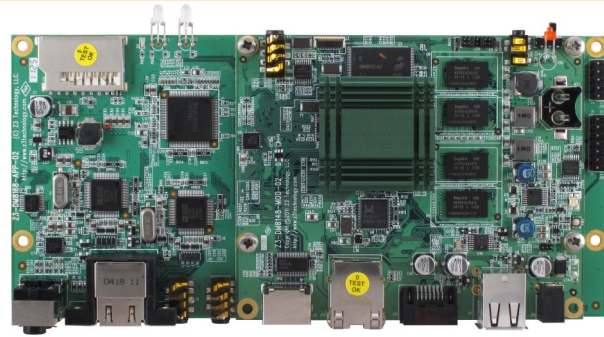
Broadcast Video Encoding and Decoding

Video Security and Industrial DVR

Medical Video

Industrial Video

Low Power 1080p60 Encoder



88mm

186mm

## Z3-DM8148-RPS OEM-Ready System Contains:

### Benefits:

- Fully integrated hardware and software audio/video system
- Ready to use, out of the box commands for encoding, decoding and streaming
- Cost effective design, ready for manufacturing volumes
- Supports H.264 multichannel in all video resolutions from QCIF to 1080p60
- Versatile encoding modes such as low latency, high quality, low bit rate, etc.
- Full A/V synchronization even after hours of recording

### Hardware:

- One **Z3-DM8148-MOD** OEM-ready video SOM
- 88mm x 108mm
- 512MB DDR2, 256MB Flash, SATA, GigE, USB 2.0
- HDMI Out, Composite Video Out, Serial, I/O port
- One **Z3-DM8168-APP** application board
- 88mm x 186mm, SD/MMC card socket
- Dual channel concurrent inputs
  - 2x HDMI input, up to 1080p60, with embedded audio. Maximum is 1 channel 1080p60
  - 2x analog component inputs, up to 1080i
  - 2x analog stereo audio

### Software:

- Pre-loaded, OEM-ready **Video Application Executable** commands
  - **Streaming H.264 encoder up to 1080p60**
    - H.264 video, from QCIF to 1080p/i at 60 fps; AAC or PCM audio
    - Fully controllable parameters: resolution, max bit rate, GOP, on-the-fly bit rate control, ... etc.
    - Low latency mode
    - RTP or MPEG-2 TS (optional) output
  - **Streaming decoder**
    - H.264 video from QCIF to 1080p/i at up to 60 fps with audio
    - Flexible resizer allows full frame display of smaller resolutions
    - RTP or MPEG-2 TS (optional) support
  - **File-based Transcoder (optional)**
    - MPEG-2 to H.264 up to 1080p60
    - AAC and LPCM audio support
- OpenMAX-IL framework
- Multichannel RDK framework available for additional license
- Source code license available
- Linux 2.6, u-boot, root file-system, NAND boot, tool chain, flash programming tool

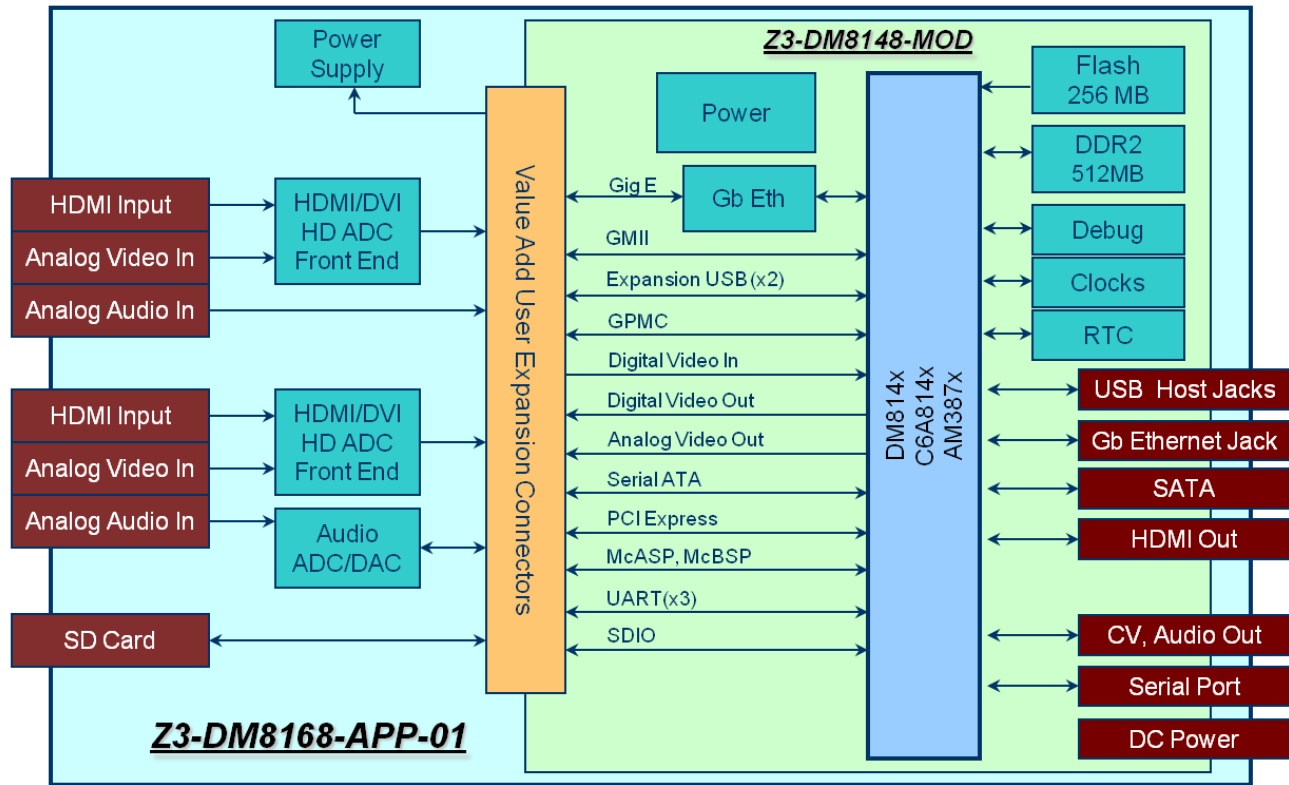
Contact **Z<sup>3</sup>** Technology for customized product options

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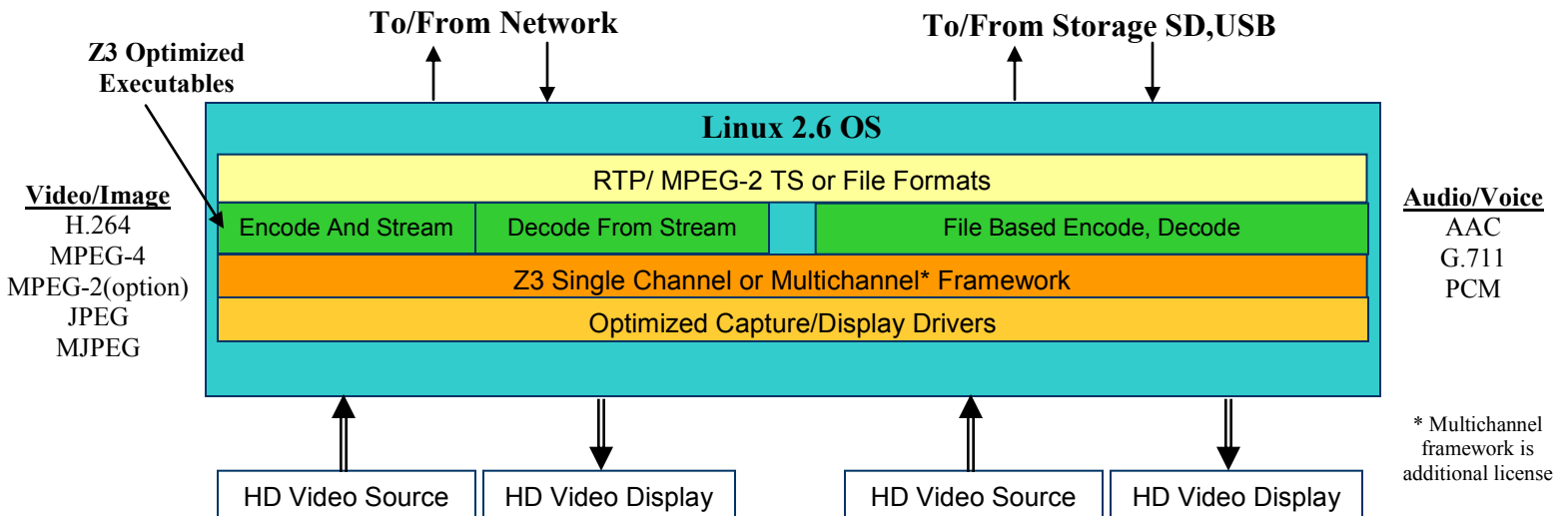


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# Z3-DM8148-RPS HW/SW Block Diagrams



## Z3-DM8168-APP + Z3-DM8148-MOD



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