



Z³
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
- 1GB DDR3, 256MB Flash, SATA2, 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 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 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 sales@z3technology.com for details.

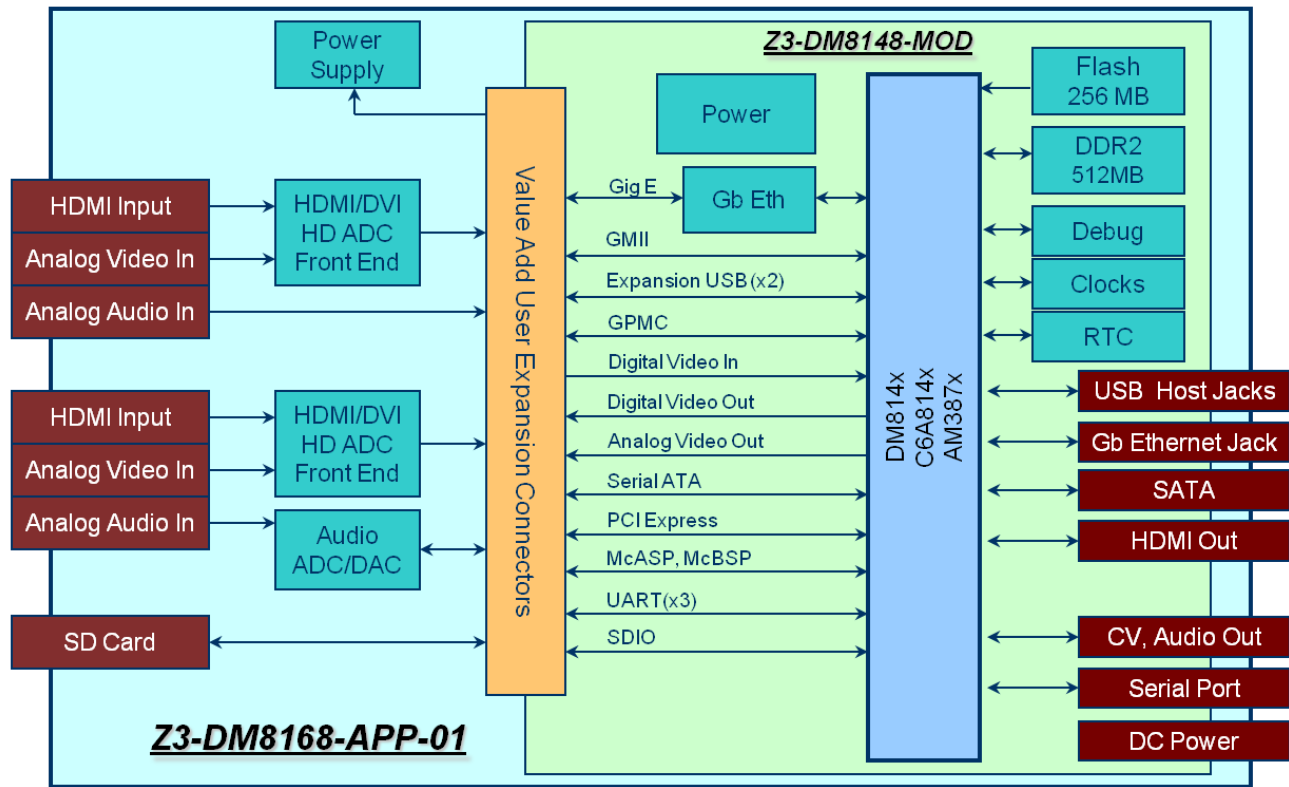
Contact Z³ Technology for customized product options

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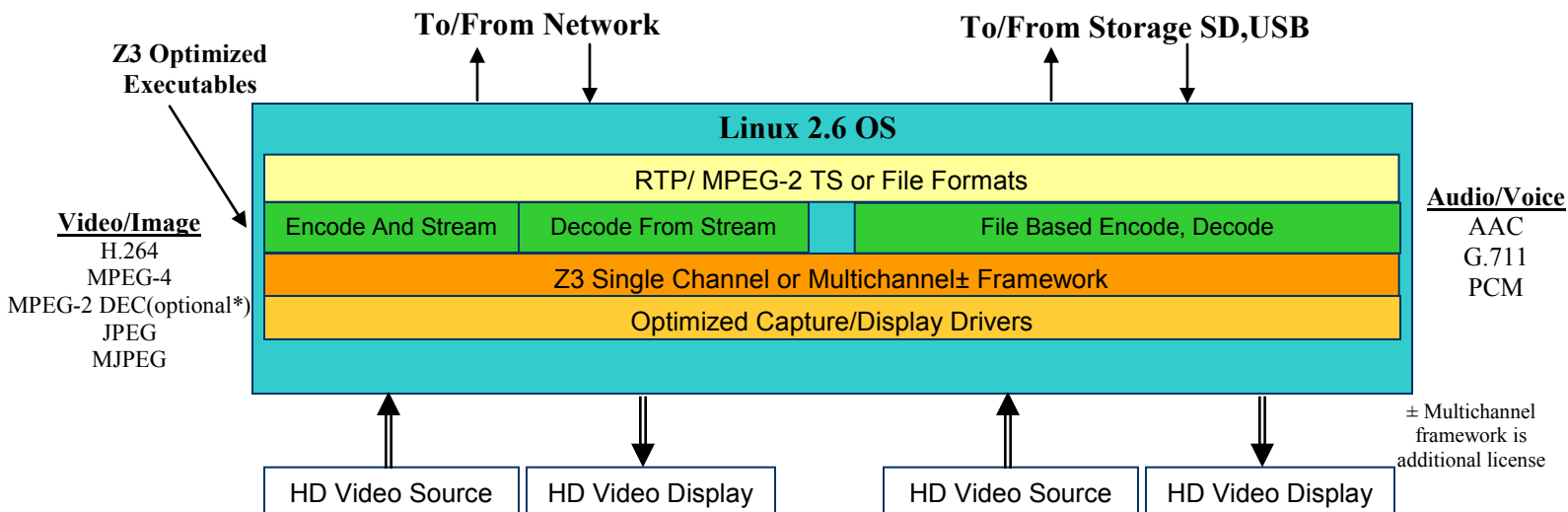


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Z3-DM8148-RPS HW/SW Block Diagrams



Z3-DM8168-APP + Z3-DM8148-MOD



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