



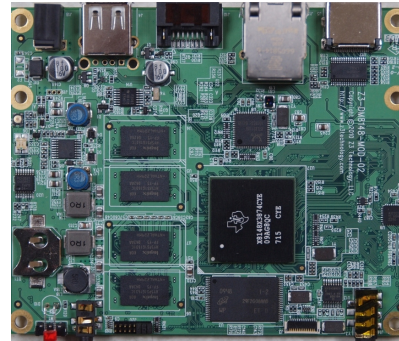
Z³
Technology, LLC

Low-Power 1080p60 HD

Product Part Number Z3-DM8148-MOD

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



Z3-DM8148-MOD OEM-Ready Module Contains:

Benefits:

- *Cookie-cutter video solution for embedded applications*
- *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 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*
- *Linux-based system, easy to customize if needed; full source code available*

Hardware: 88mm x 108mm

- One **Z3-DM8148-MOD** OEM-ready video SOM
- 512 MB DDR2, 256MB Flash
- SATA, Gigabit Ethernet, USB 2.0
- HDMI and Composite Video Out
- Multiple digital video and audio I/O ports
- MPEG-2 transport stream interface
- SD/MMC, UART, I2C, SPI ports

Software:

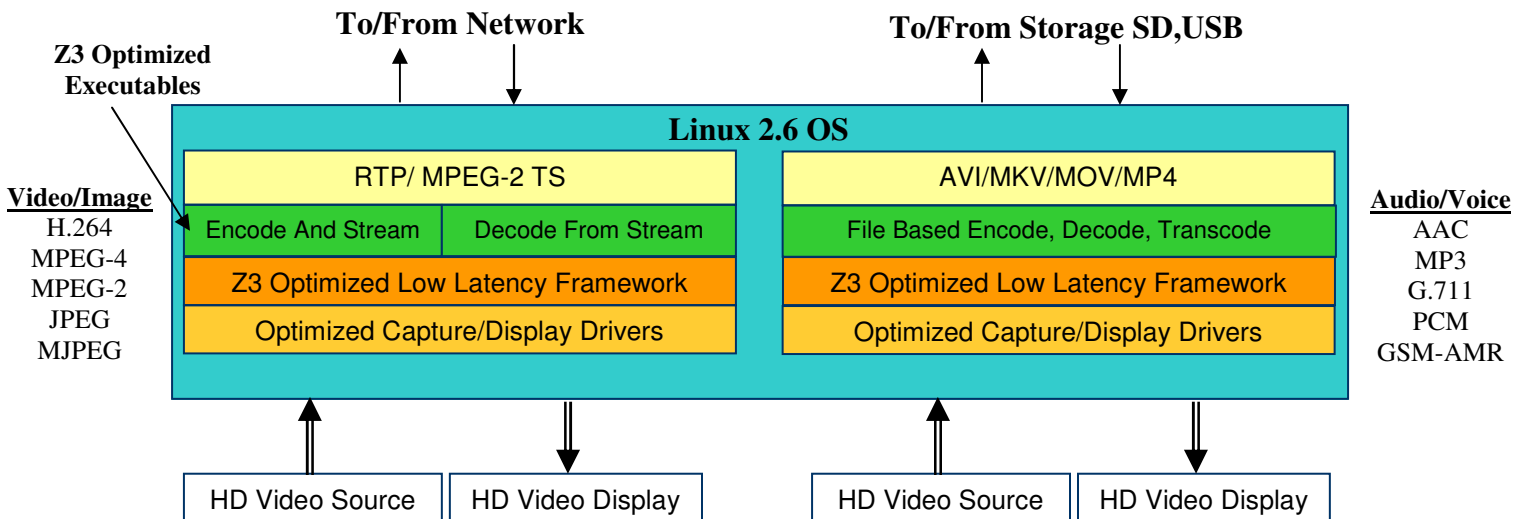
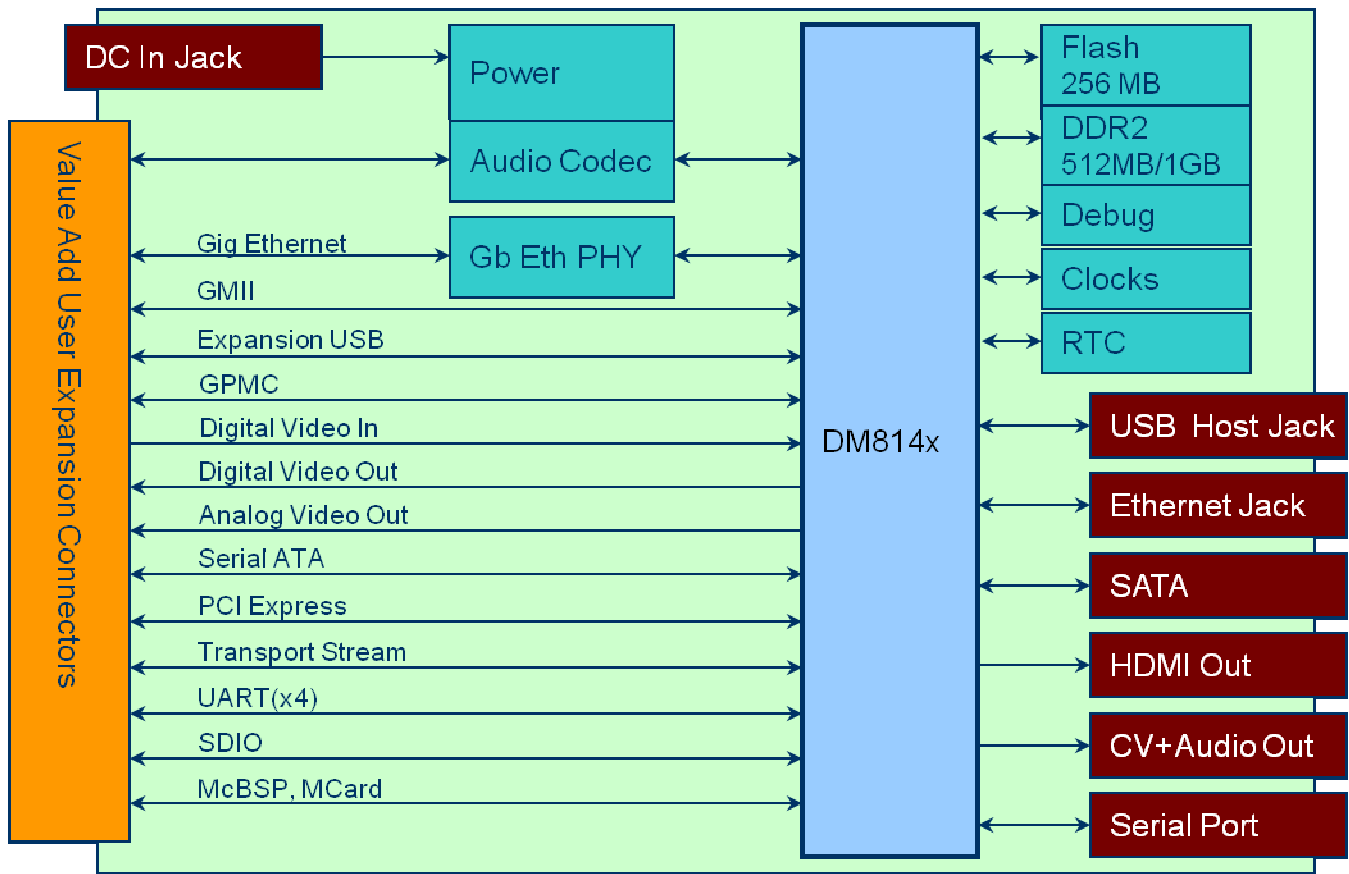
- Pre-loaded, OEM-ready **Video Application Executable** commands
 - **Streaming H.264 encoder up to 1080p60**
 - H.264 video, from QCIF to 1080p/i at 60 fps; AAC or PCM audio
 - Fully controllable parameters: resolution, max bit rate, GOP, on-the-fly bit rate control, ... etc.
 - Low latency mode
 - MPEG-2 TS or RTP 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
- OpenMAX-IL framework
- Source code license available
- Linux 2.6, u-boot, root file-system, NAND boot, tool chain, flash programming tool

Contact Z³ Technology for customized product options

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Z3-DM8148-MOD HW/SW Block Diagrams



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