



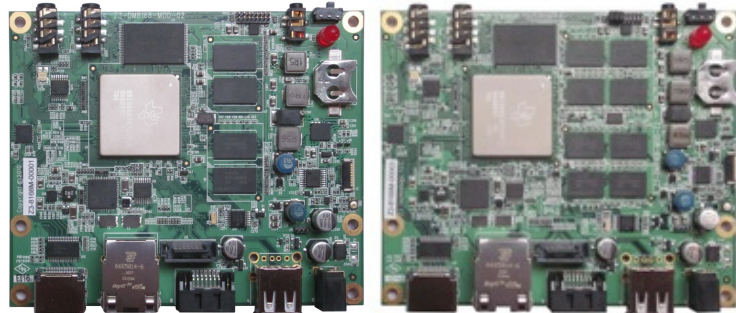
Z³
Technology, LLC

Multi-Channel 1080p60 HD

Product Part Number Z3-DM8168-MOD-X2

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

Applications
Broadcast Video Encoding and Decoding
Real Time Transcoding at 1080p60
Video Security and Industrial DVR
Medical and Industrial Video
Video Conference Terminal and MCU



Z3-DM8168-MOD-02

Z3-DM8168-MOD-22

Z3-DM8168-MOD-X2 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 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*
- *Linux-based system, easy to customize if needed; full source code available*

Hardware: 88mm x 108mm

- One **Z3-DM8168-MOD** OEM-ready video SOM
- 512 MB (-02) and 1GB DDR3 (-22), 256MB Flash
- SATA, Gigabit Ethernet, USB 2.0
- HDMI, YPbPr and Composite Video Out
- Multiple digital video and audio I/O ports
- MPEG-2 transport stream interface
- SD/MMC, UART, I2C, SPI ports

Software:

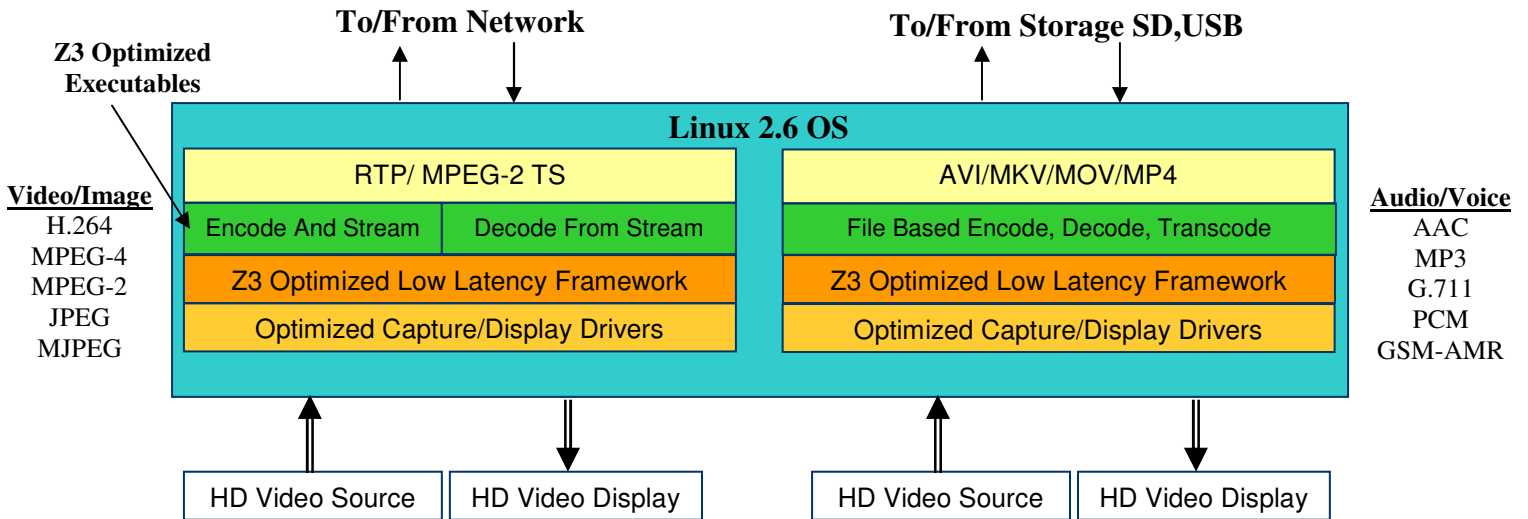
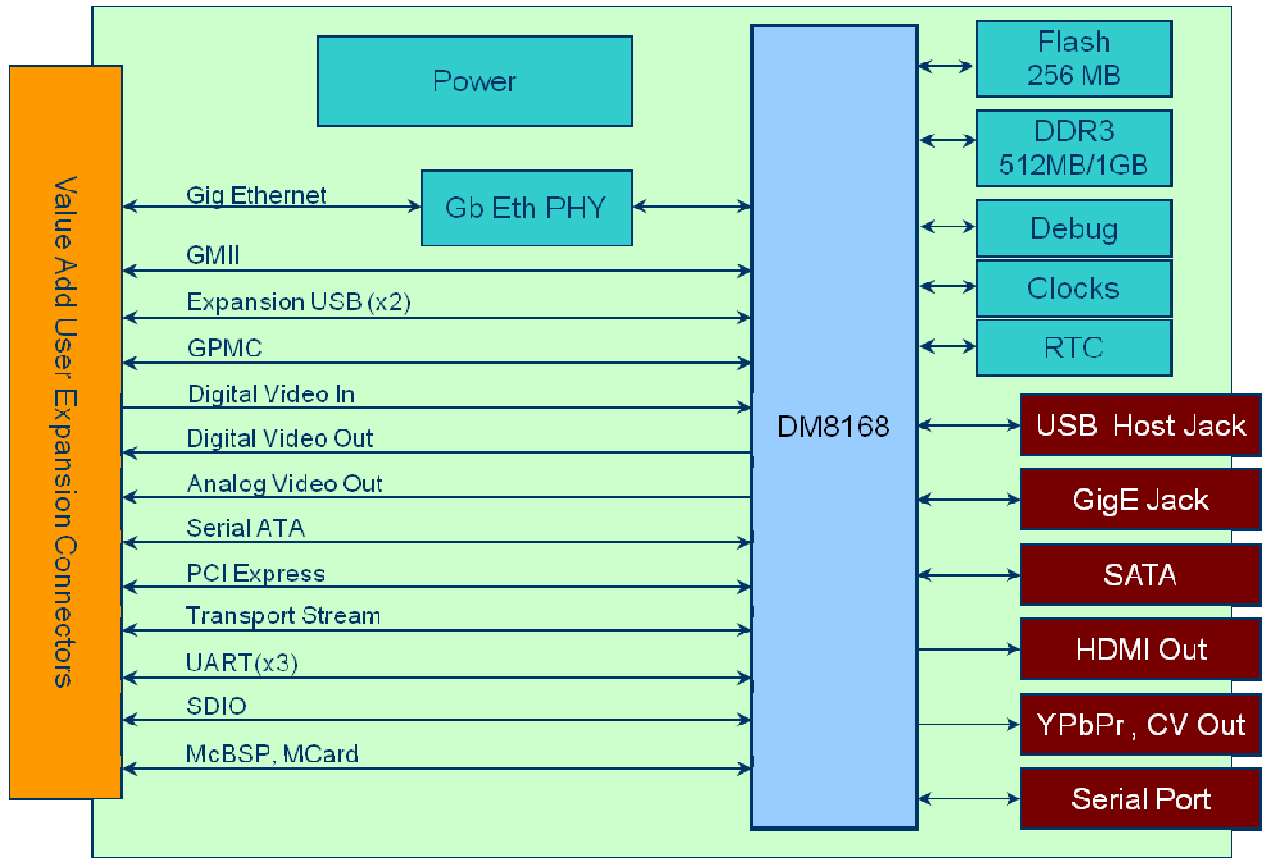
- Pre-loaded, OEM-ready **Video Application Executable** commands
 - **Streaming H.264 encoder up to 1080p60**
 - H.264 video, from QCIF to 1080p/i at 60 fps; AAC or PCM audio
 - Fully controllable parameters: resolution, max bit rate, GOP, on-the-fly bit rate control, ... etc.
 - Low latency mode
 - 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
 - **File-based Transcoder**
 - MPEG-2 to H.264 up to 1080p60
 - AAC and LPCM audio 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-DM8168-MOD-X2 HW/SW Block Diagrams



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