



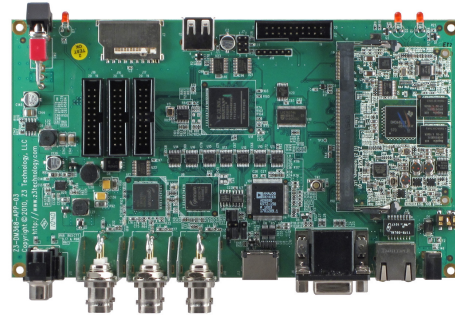
**Z<sup>3</sup>**  
Technology, LLC

# 1080i Broadcast Encoder

Product Part Number Z3-DM368-VI-RPS

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

<b>Applications</b>
Broadcast Video
Video Security and Surveillance
Industrial Video
Medical Video
Commercial and Educational Video



## **Z3-DM368-VI-RPS Rapid Product Design System 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*
- *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:**

- One **Z3-DM368-MOD** (44x67mm) OEM-ready video module
- One **Z3-DM368-APP** Application Board
  - HD-SDI in/out, ASI in/out, non-HDCP HDMI in, Component in, Composite in
  - Ethernet, USB, SD Card, Serial
  - FPGA firmware design
  - Size: 208 x 114 x 41mm

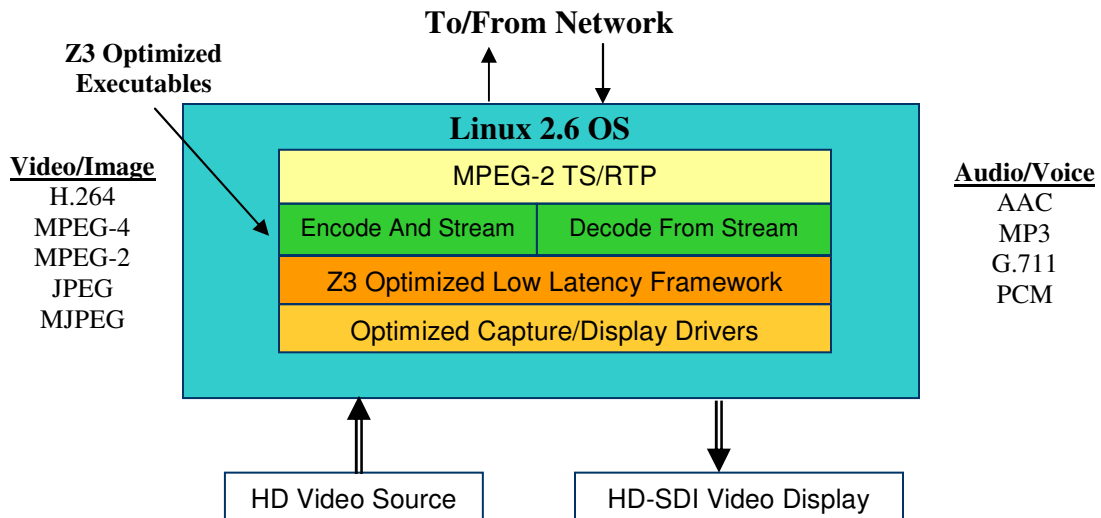
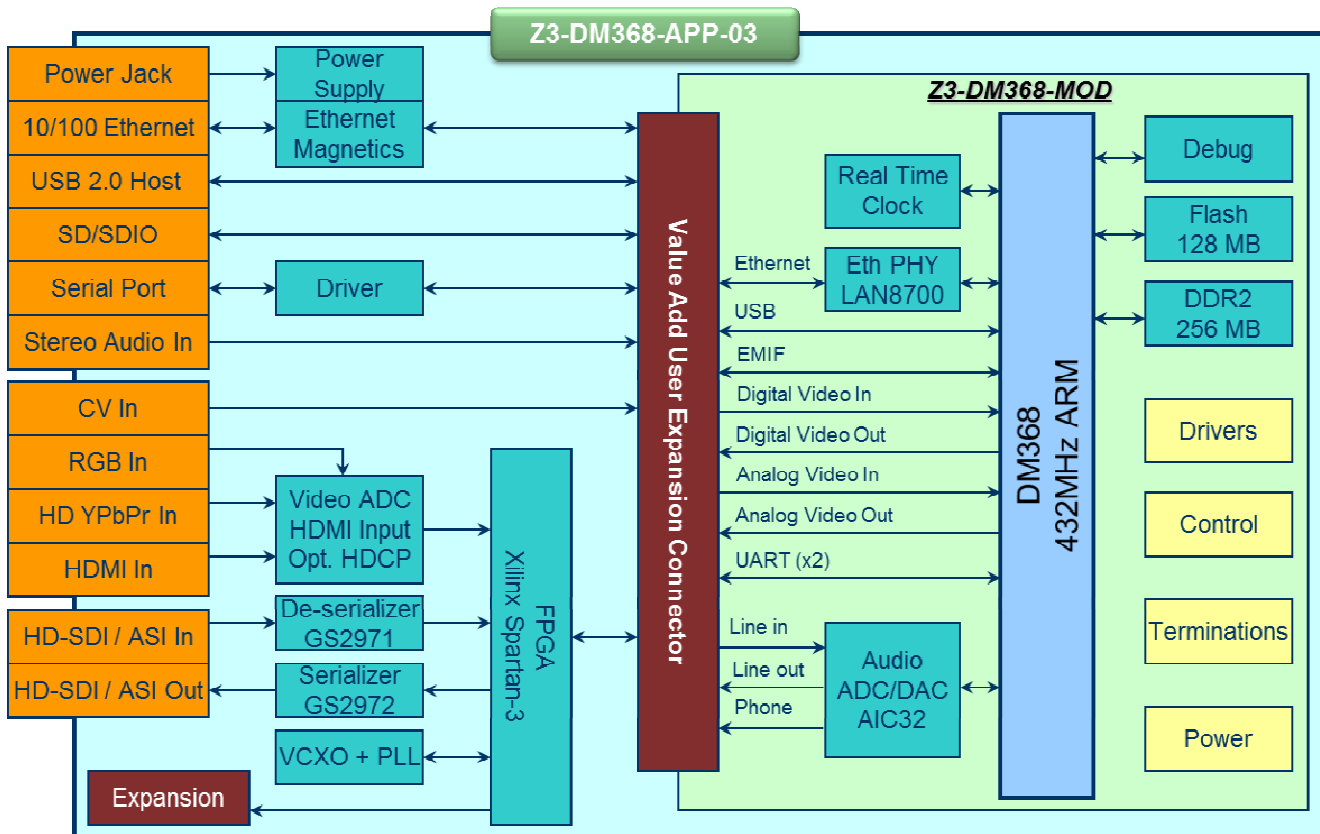
### **Software: Z3 Binary Applications**

- Pre-loaded, OEM-ready **Web server GUI**
- **Streaming RTP/MPEG-2 TS encoder**
  - H.264 video, from QCIF to 1080p/i at 30 fps; AAC or PCM audio
  - Fully controllable parameters: resolution, max bit rate, GOP, on-the-fly bit rate control, ... etc.
  - Low latency mode, 65ms max from capture to transmission
- **Streaming RTP/MPEG-2 TS decoder**
  - H.264 video from QCIF to 1080p/i at 30 fps with audio
  - Flexible resizer allows full frame display of smaller resolutions
  - Low latency mode to match with DM368-MOD based transmitter
- Z3 Application Source code license available
- UBL, Linux 2.6, u-boot, root file-system, NAND boot, tool chain, flash programming tool
- Includes 4 hours of email/telephone technical support

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

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# HW/SW Block Diagrams



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