# 1080i Broadcast Encoder

Product Part Number Z3-DM368-VI-RPS

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

| Applications |
|---|
| 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: 203x114mm

**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
  - **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.X, u-boot, root file-system, NAND boot, tool chain, flash programming tool
- Includes 4 hours of email/telephone technical support

Contact Z³ Technology for customized product options

Phone: +1.402.323.0702
sales@z3technology.com
www.z3technology.com


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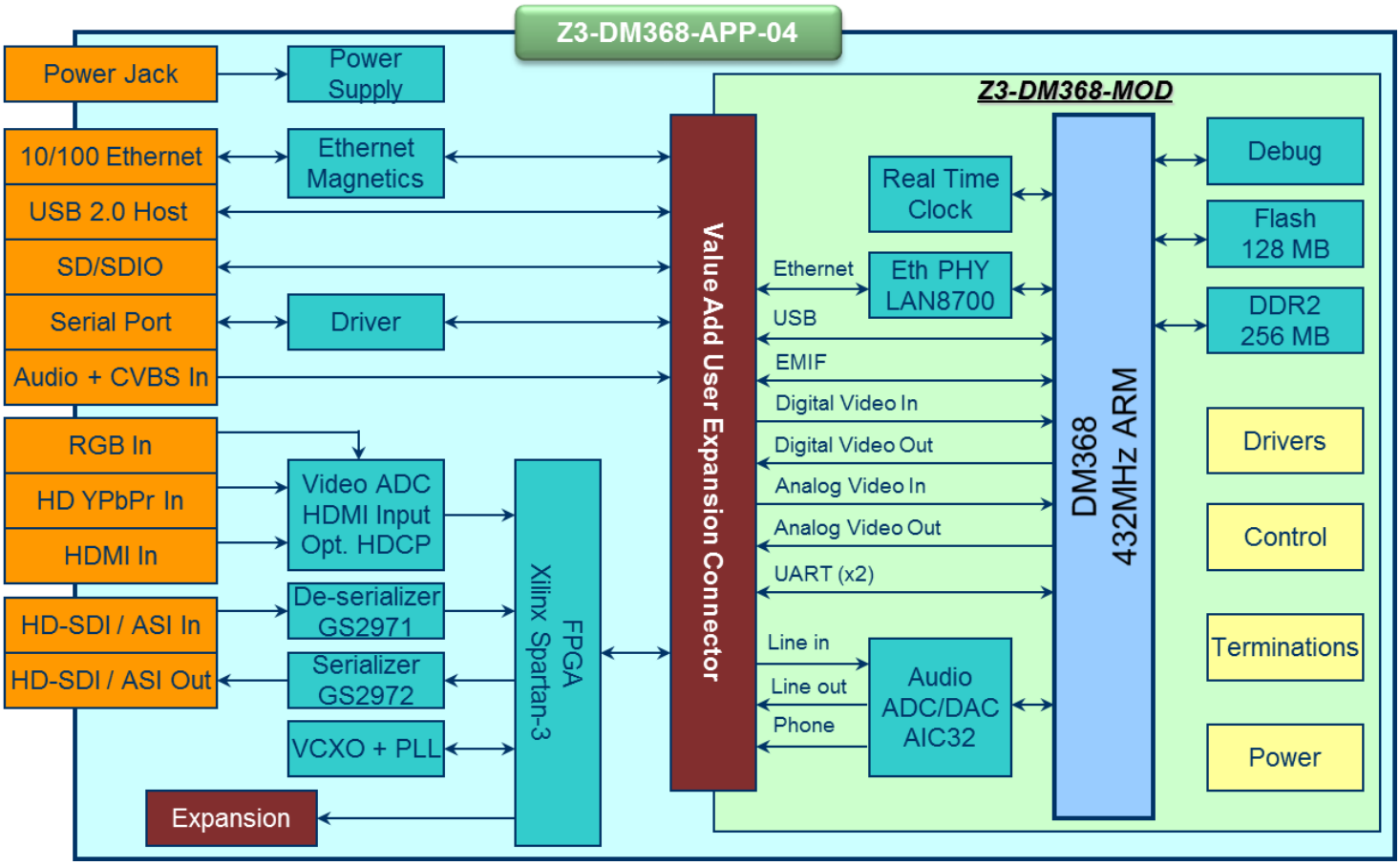
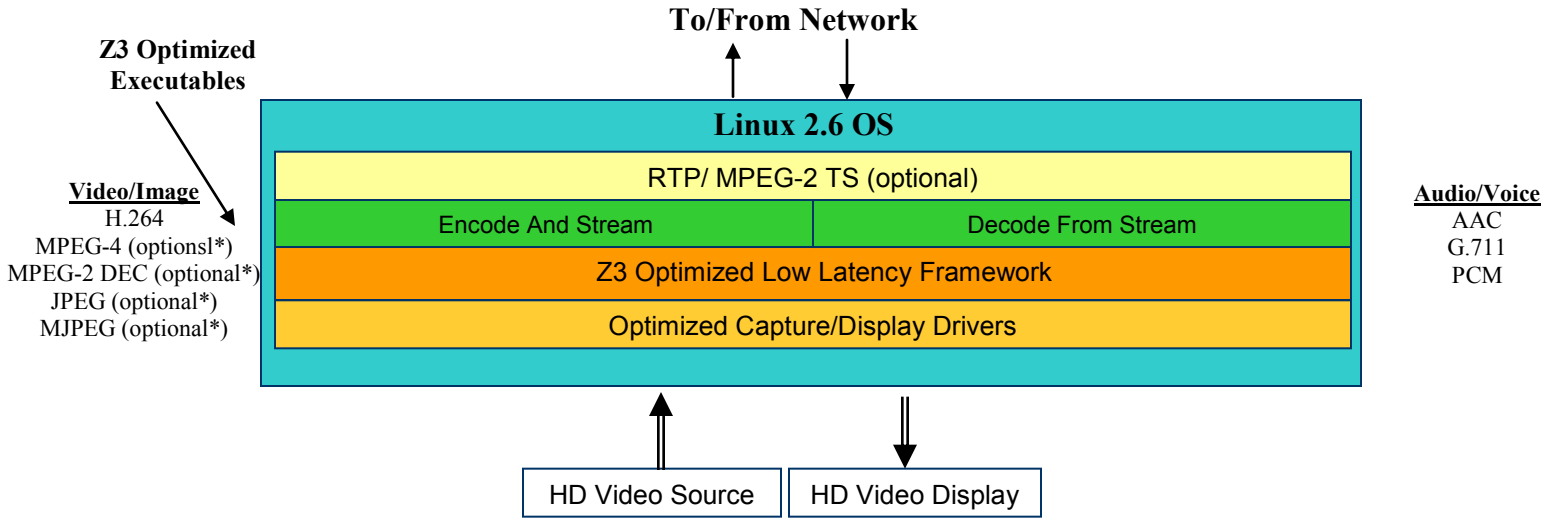
# HW/SW Block Diagrams




** Contact sales@z3technology.com for details.*

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Phone: +1.402.323.0702
sales@z3technology.com
www.z3technology.com