



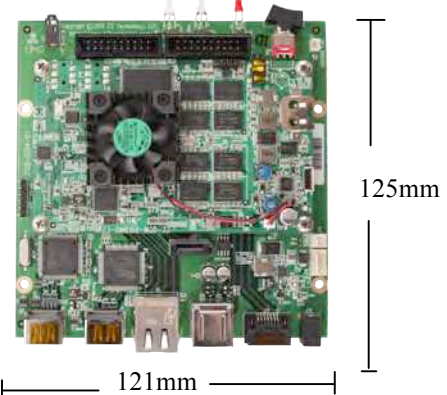
**Z<sup>3</sup>**  
Technology, LLC

# Video Infrastructure 4K System

Product Part Number Z3-DM8169-4K-RPS

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

Applications
Broadcast Video Encoding and Decoding
Security and Surveillance
Video Conferencing
Industrial Video Processing



## Z3-DM8169-4K-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 modular design, ready for manufacturing volumes
- Supports H.264 multichannel in all video resolutions from QCIF to 4K
- Versatile encoding modes such as low latency, high quality, low bit rate, etc.
- High quality digital video I/O including HDMI

### Hardware:

- One **Z3-DM8169-MOD-4K** OEM-ready video SOM
- 68mm x 108mm
- 1GB DDR3,
- 256MB Flash
- Multiple digital video and audio I/O ports
- One **Z3-DM8168-APP-6x** application board
  - 125mm x 121mm
  - HDMI Input/Output
  - GigE
  - Dual USB 2.0
  - SATA2
  - Serial

### Software:

- Pre-loaded, OEM-ready Video Application Executable commands (License available with RPS Starter Kit)
- **Streaming H.264 encoder up to 4K**
  - H.264 video up to 4K with AAC audio
  - Fully controllable parameter: resolution, max bit rate, GOP, on-the-fly bit rate control, ... etc.
  - RTP and MPEG-2 TS streaming output
- **Streaming decoder**
  - H.264 video from QCIF to 4K
  - Arbitrary resolution scaler
  - Scale small resolutions to full screen
  - Scale large resolutions to window size
  - RTP and MPEG-2 TS input support
- RDK framework
- RDK Source code license available\*
- Linux 2.6.37, u-boot, root file-system, NAND boot, tool chain, flash programming scripts
- FPGA firmware license available\*

\* Contact [sales@z3technology.com](mailto:sales@z3technology.com) for details.

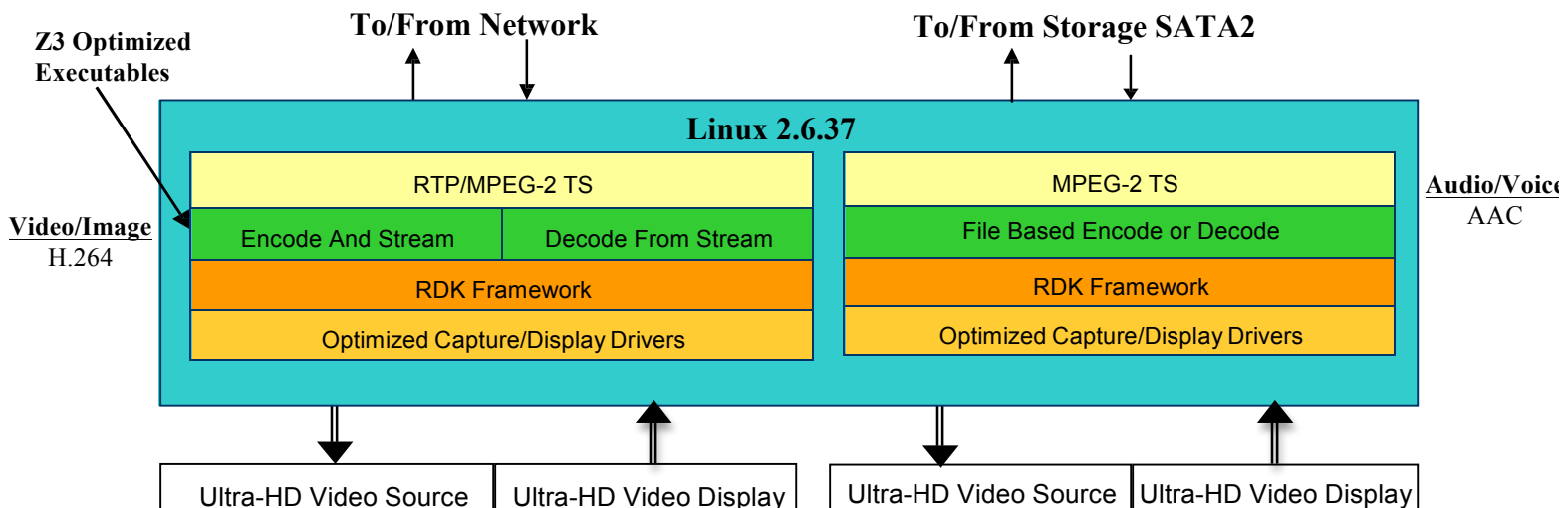
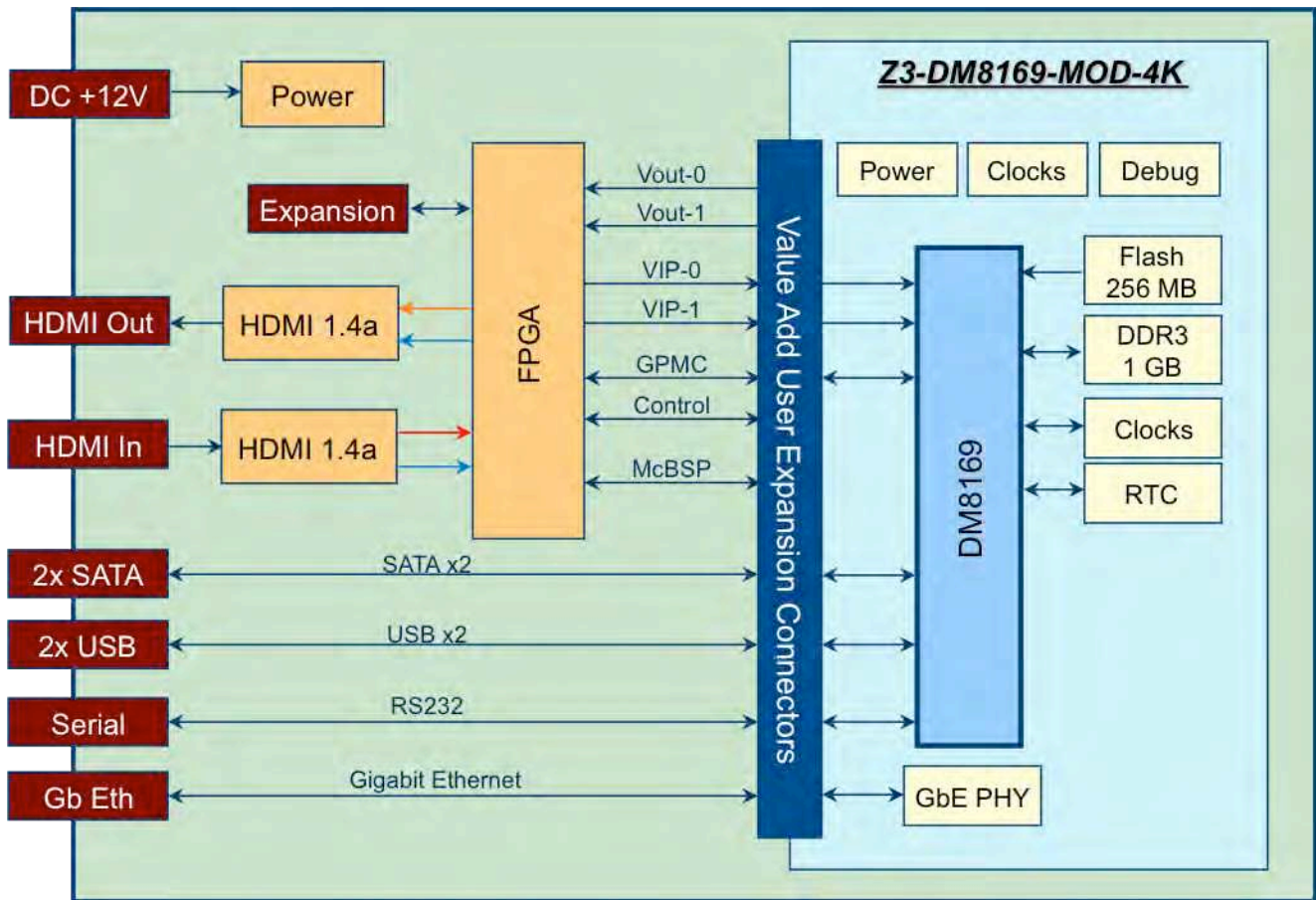
**Contact Z<sup>3</sup> Technology for customized product options**

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# Z3-DM8169-4K-RPS HW/SW Block Diagrams



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