

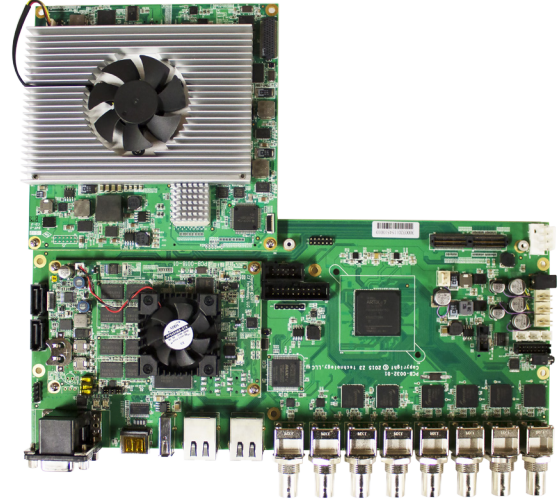


Z3
Technology®

Z3-C6678-RPS

HEVC Rapid Production Starter Kit

The Z3-C6678-RPS starter kit allows encode and decode of HEVC/H.265 video in SD or HD resolutions. The Z3-C6678-RPS consists of a hardware package and software bundle designed to enable rapid development of HEVC applications. The hardware consists of one Z3-C6678-MOD System on Module card, one Z3-DM8169-MOD-3x Module, and one Z3-C6678-APP-1x Application Board. The Z3-C6678-RPS supports up to 1080p encode of HEVC with one Z3-C6678-MOD module card. The Z3-C6678-MOD is a compact OEM module containing four C6678 multicore DSPs. The software bundle consists of the necessary software for developing advanced multimedia, graphics, and DSP applications.



BENEFITS

- > HEVC technology allowing for a highly efficient encode
- > HEVC encode in resolutions up to 1080p
- > A complete hardware and software package ready to deploy in HEVC applications
- > Easily controlled through RS-232 or an HTTP-based GUI
- > Ready to use, out-of-the-box commands for encoding, decoding and streaming

APPLICATIONS

- Medical and Industrial Video
- Military Applications
- Video Security and Surveillance
- Web-Based Video Streaming
- High Performance Computing
- Customized Applications*

***Contact Z3 Technology for Customized Product Options**

sales@Z3technology.com

+1.402.323.0702

www.Z3technology.com

Hardware

Module	Z3-C6678-MOD-0x and Z3-DM8169-MOD-3x
Application Board	Z3-C6678-APP-1x
I/O Board	Z3-C6678-IO-0x
Processor	DSP + ARM Cortex A8
Video Inputs	2x 3G-SDI, 1x ASI
Video Outputs	2x ASI, 4x 3G-SDI and 1x HDMI
Video Codecs	HEVC and H.264
Audio Interfaces	Embedded SDI and Embedded HDMI
Audio Codecs	AAC-LC, AAC-HE, G.711* and PCM*
Additional Interfaces	2x GigE, 1x USB, 2x SATA2 and 2x Serial

Software

Software Development	Texas Instruments® MCSDK, Z3 Technology software components for MCSDK, Z3 Applications
Operating System	Linux 2.x (root file-system, NAND boot, tool chain and flash programming tool), u-boot
Encoding Resolutions	Encode in resolutions up to 1080p
Output Formats	RTP, MPEG-2 TS, RTMP and TS File

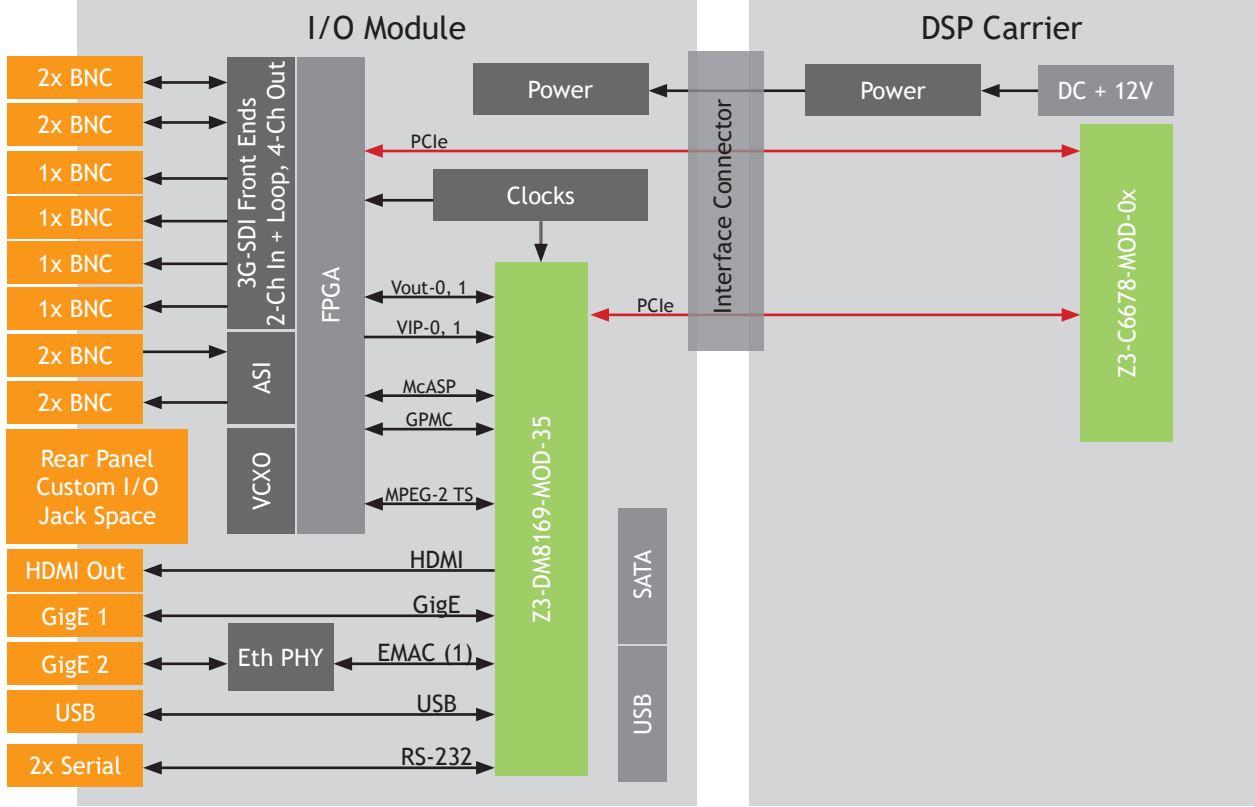
Features

- Low latency mode
- Flexible resizer to allow full frame display of smaller resolutions
- Fully controllable parameters: resolution, max bitrate, GOP and on-the-fly bitrate control
- Source code license available*

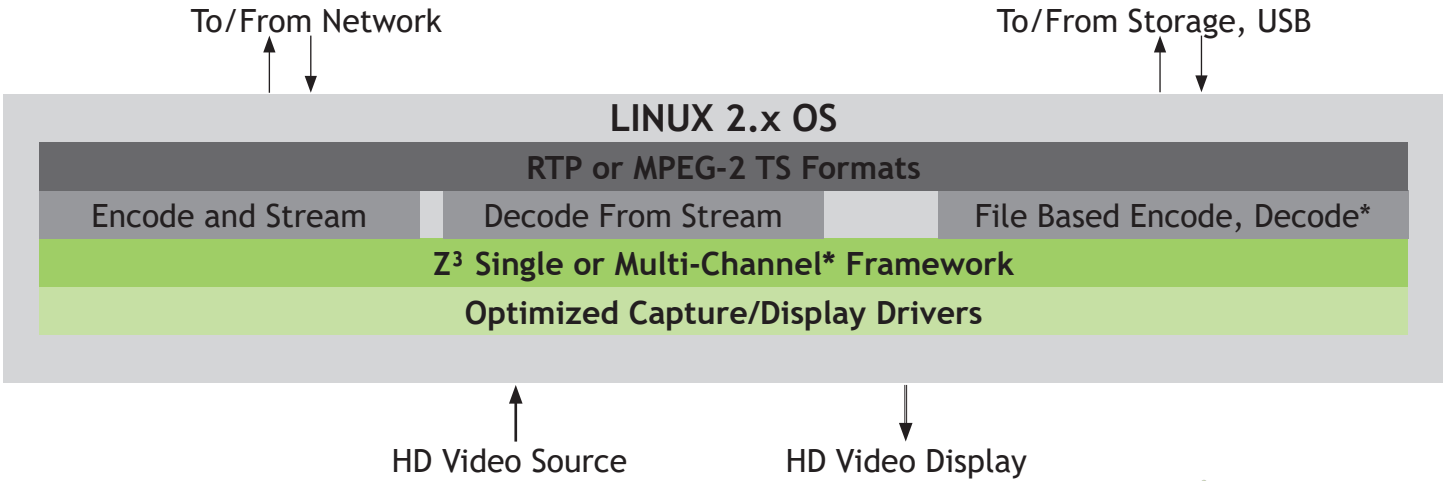
Specifications

Module Size	125 x 125 mm (4.92 x 4.92 in)
Application Board Size	149 x 144 mm (5.87 x 5.67 in)
I/O Board Size	300 x 97 mm (11.81 x 3.82 in)
Power Supply	100-240 VAC

HW Block Diagram



SW Block Diagram



***Contact Z3 Technology for Customized Product Options**
sales@Z3technology.com +1.402.323.0702 www.Z3technology.com



Z3 Technology is the market leader in providing production-ready embedded multimedia solutions and systems. From our founders to our world-class engineers to our sales and customer service team, we understand your requirements and speak your language. Our experience allows us to provide cost-effective solutions to meet your multimedia product requirements. With the assistance of our robust worldwide distribution and sales networks, we can provide a simple solution for your multimedia needs.

