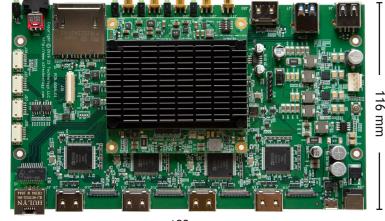


Z3-HE4320-RPS H.265 4Kp30 Starter Kit

The Z3-HE4320-RPS starter kit allows 4 channels of H.265 encoding in up to 4Kp30 or multiple lower resolution streams. It consists of a hardware package and software SDK bundle designed to enable rapid development of multimedia applications. The hardware consists of one Z3-HE4320-MOD-0x System on Module card and one Z3-HE4320-APP-0x Application (I/O) Board. The Z3-HE4320-MOD-0x is a compact system-on-module which supports up to 2160p30 encode or decode in streaming or storage mode. The application board uses the I/O expansion capability of the Z3-HE4320-MOD to implement additional I/O functions required by the user application. The software bundle consists of the necessary components for developing advanced multimedia, graphics, AI, and DSP applications.



193 mm -

BENEFITS

- >HEVC/H.265 High Efficiency encode through HDMI, and 6G-SDI interfaces
- >Compact design ideal for quick implementation in customized solutions
- Ready to use, out-of-the-box commands for encoding and streaming

APPLICATIONS

- Medical Video Applications
- Video Security and Surveillance
- Industrial Video Applications
- Government/Military Applications
- Broadcast Video Encoding
- **Customized Applications***

*Contact Z³ Technology for Customized Product Options

sales@Z3technology.com

+1.402.323.0702

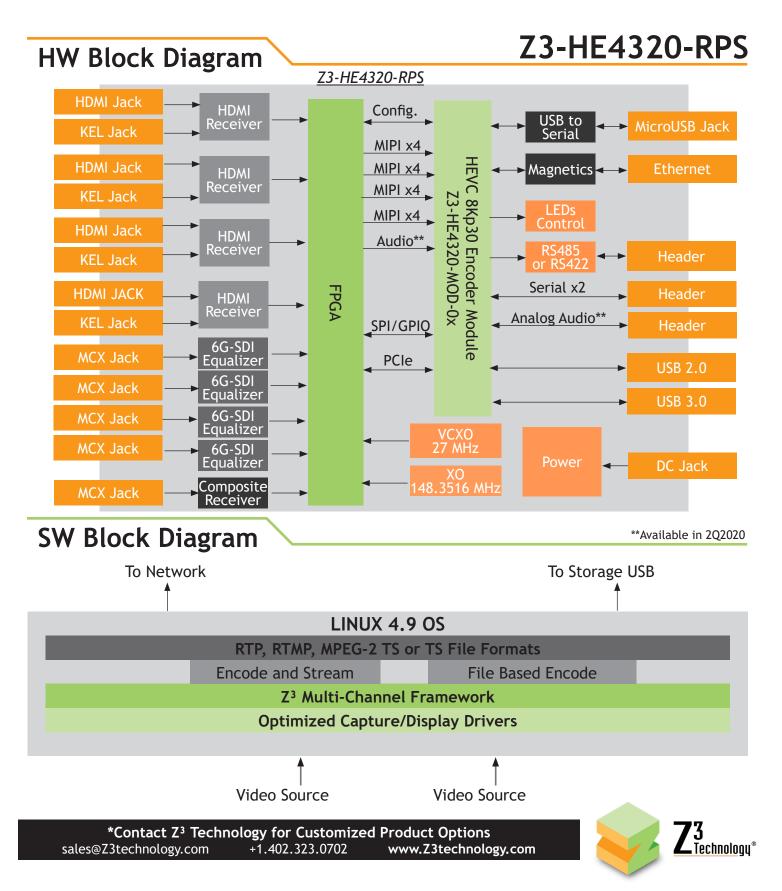
www.Z3technology.com

Hardware

Power Consumption

Пагимаге	
Module	Z3-HE4320-MOD-0x
Application Board	Z3-HE4320-APP-0x
Processor	5-core: 2x A73 at 1.8GHz, 2x A53 at 1.2GHz, 1x A53 at 1 GHz Dual core ARM Mali G71 Dual core Neural Network acceleration NNIE at 840 MHz
Video Inputs	6G-SDI, HDMI
Video Codecs	H.265, H.264, MJPEG
Audio Interfaces**	Embedded HDMI, Embedded SDI
Audio Codecs**	HE-AAC, HEv2-AAC, AAC-LCInput from analog or embedded digital
Interfaces	 4x 6G/3G-SDI Inputs 4x HDMI 1.4b inputs 4x KEL jack for 4K camera input Composite video input for camera synchronization UART, I2C, SPI, GPIO, etc. Micro-USB Console Line level audio**
Software	
Operating System	Embedded Linux (root file-system, NAND boot, tool chain and flash programming tool), u-boot
Encoding Resolutions	 Multi-stream H.265 and/or H.264 encoding at up to UHD 4K at 30 fps 4x 3840x2160@30fps + 3840x2160@2fps snapshot
Output Formats	RTP, RTSP, MPEG-2 TS over UDP, RTMP, TSRTP, MPTS and TS File
Features	 Low Latency Fully controllable parameters; resolution, max bitrate, GOP and on the fly bitrate control Real time genlock, and streaming of up to four 4K cameras Neural net accelerator engine for video analytics FPGA on video path
Specifications	**Available in 1Q2020
Module Size	77 x 77 mm (2.28 x 2.28 in)
Application Board Size	193 x 116 mm (5.59 x 2.99 in)
Board Weight	151g
Power Supply	19V/3.42A

TBD



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.

Z³ Technology, LLC incorporates HDMI technology. The terms of HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and other countries.

