

- H.265 and H.264 Encoder in 4K, and HD Resolutions
- Multiple inputs from SDI, HDMI and Sony 4K camera block
- Streaming of up to four 4K cameras
- H.265 Multichannel Streaming up to 4K
- 4x 6G-SDI Input, 4x HDMI input
- Small Form Factor, low power



The Z3-DME-40 is a compact video encoder which supports up to 2160p30 (UHD 4K) H.265 encode in streaming or storage applications. The DME-40 is an ideal platform for broadcast, medical imaging, event streaming, industrial video, low-latency and low bit-rate streaming and many other video streaming and recording applications. This powerful, production-ready 4K encoder offers the latest technology combined with Z3 Technology's reputation for compact, production ready hardware and software solutions.

Technical

Video Codecs	H.265, H.264, MJPEG
Interfaces	<ul style="list-style-type: none"> • 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**
Audio Codecs**	<ul style="list-style-type: none"> • HE-AAC, HEv2-AAC, AAC-LC • Input from analog or embedded digital
Operating System	Embedded Linux (root file-system, NAND boot, tool chain and flash programming tool), u-boot
Encoding Resolutions	<ul style="list-style-type: none"> • 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, TSRTSP, MPTS and TS File
Features	<ul style="list-style-type: none"> • 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

Encoder Size	120 x 207 x 15 mm
Encoder Weight	378 g
Power Supply	19V
Temperature Range	0°C to +50°C
Typical Power Consumption	TBD

**Available in 2Q2020

BENEFITS

- H.265 high-efficient encode in resolutions up to 2160p30
- Compact Form Factor

APPLICATIONS

- Broadcast
- Security/Surveillance
- Medical Imaging
- Event Streaming
- Industrial Video
- Customized Applications*

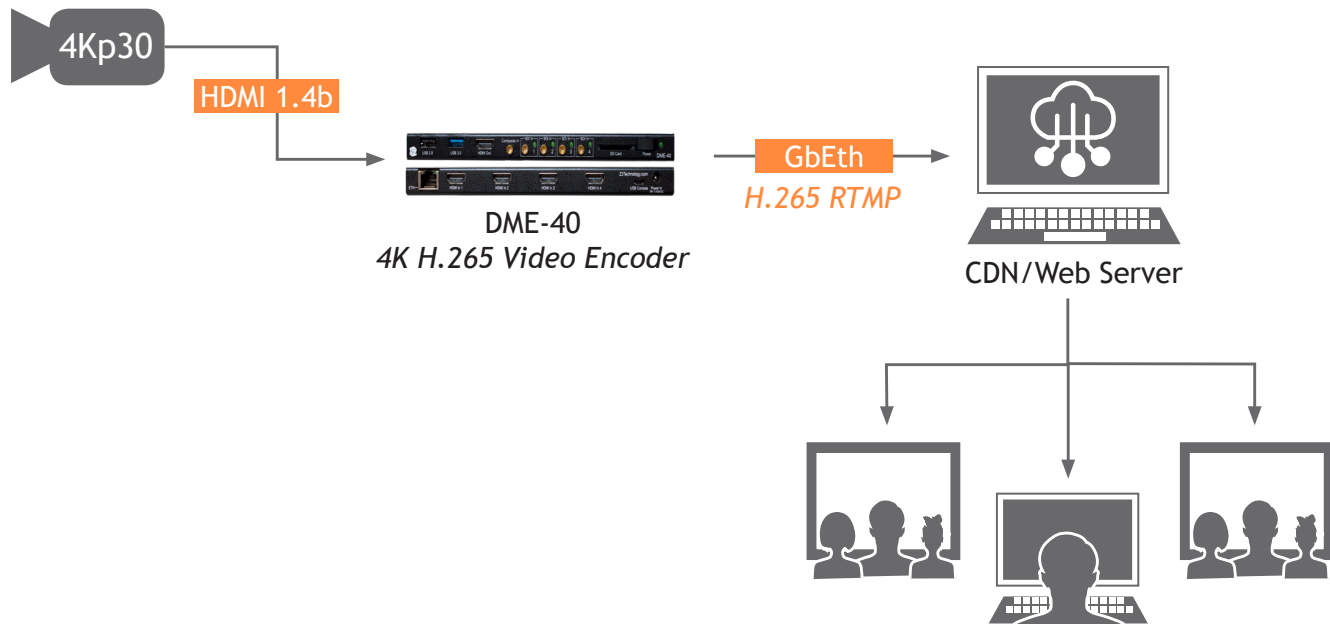
ORDERING INFORMATION

Z3-DME-40

- Included cable kit
- HDMI cable
- MCX to BNC Cable
- 19V Power Supply
- USB type A to Micro-B cable

4K H.265 Video Streaming

The diagram below demonstrates a video streaming application. 2160p30 video is being sent via HDMI to the Z3-DME-40. Once the video is received, the video is sent utilizing H.265 RTMP over Gigabit Ethernet to a CDN/Web Server (such as Wowza Streaming Engine) for distribution.



Operating Controls



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