HE2K-DCK-1x

*Actual Size

58 mm

58 mm
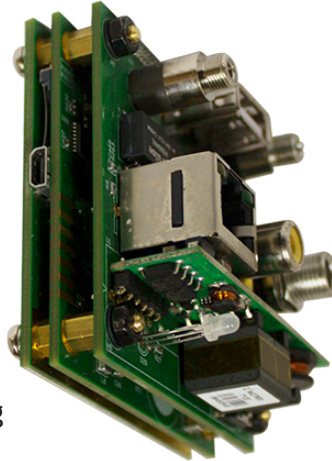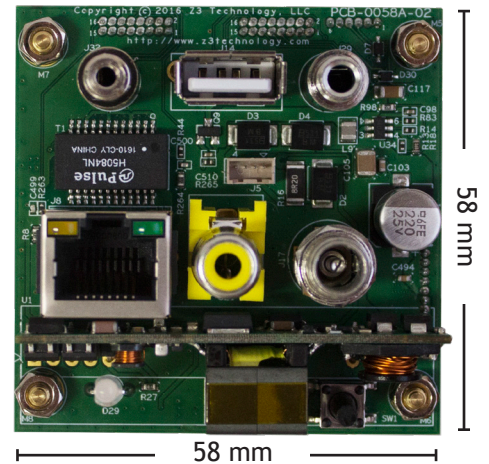
- Natively Integrates with the FCB-EV Series Sony Block Cameras

- Pass VISCA™ Camera Control Commands Over IP, ONVIF® Profile S & T

- High Quality Efficient H.265/HEVC Video Encoding

- Low Bandwidth, Low Latency Video Encoding

- Easy-to-Use HTTP-Based Control Interface

The HE2K-DCK-1x is a compact encoder system designed to enhance Sony's FCB-EV Series Block Cameras. The hardware consists of encoder boards capable of encoding H.265/HEVC and H.264 video in HD resolutions. The boards feature on-board interfaces including GigE, USB 2.0, RS-485, Audio Input, Micro-HDMI Passthrough and Composite Output. These features combined with the existing capabilities of the Sony Block Camera allow for a complete compact HEVC HD video encoding solution. Users are able to purchase the HE2K-DCK-1x as an OEM starter kit or a complete package that includes an optional enclosure for the entire solution.

Technical

Interfaces	Video from Sony FCB-EV Series block camera via KEL ribbon cable[1], GigE, USB 2.0, Audio Input, RS-232, RS-485, Micro-HDMI Passthrough, Composite Output
Video Codecs	H.265/HEVC, H.264 and MJPEG
Encoding Resolutions	60, 59.94, 50, 30, 29.97, 25 @1080p and 720p
Output Formats	RTP, RTSP, MPEG-2 TS and RTMP[2]
Features	• Low Latency, Low Power • Ability to Resize 1920x1080 Camera Input to Lower Resolutions Keeping Full Field of View • SRT Modes Supported: Caller, Sender, Rendezvous & SRT Encryption • Pass VISCA™ Camera Control Commands over IP • ONVIF® Profile S & T Compliant • Simultaneous encode of H.265/HEVC and H.264 • Power over Ethernet (PoE) • Optional Chassis for Camera and Encoder Board* • Compatible with ZEUS® Video Decoders[2]

[1]KEL ribbon cable sold separately
[2]in H.264 mode only

Specifications

Encoder Board Size	58 x 58 x 36 mm (2.28 x 2.28 1.42 in)
Encoder Board Weight	88g (aluminum heat pipe is additional 40g)
Power Consumption	4.5W typical while encoding H.265/HEVC video in 1080p60
Power Supply	12V DC

ORDERING OPTIONS

HE2K-DCK-1x
OEM Production Set

- HE2K-DCK-1x Encoder Boards

*Note: Sony FCB-EV Series Camera Blocks and KEL ribbon cable sold separately**

HE2K-DCK-RPS
OEM Starter Kit

- HE2K-DCK-1x Encoder Boards
- KEL Ribbon Cable
- Power Supply
- SDK
- Documentation

*Note: Sony FCB-EV Series Camera Block sold separately**

Z3Cam-HD™
Complete Solution

- HE2K-DCK-1x Encoder Boards
- KEL Ribbon Cable
- Power Supply
- Enclosure, PoE and Camera Block
- Documentation

APPLICATIONS
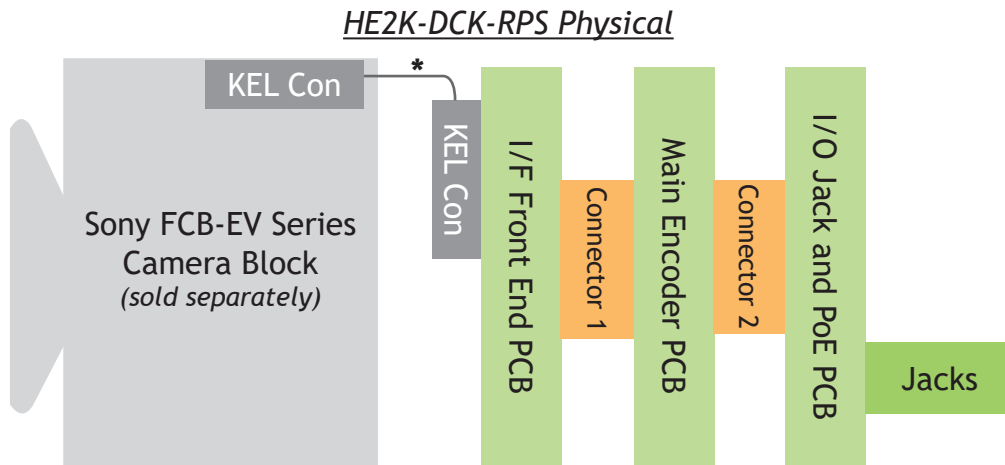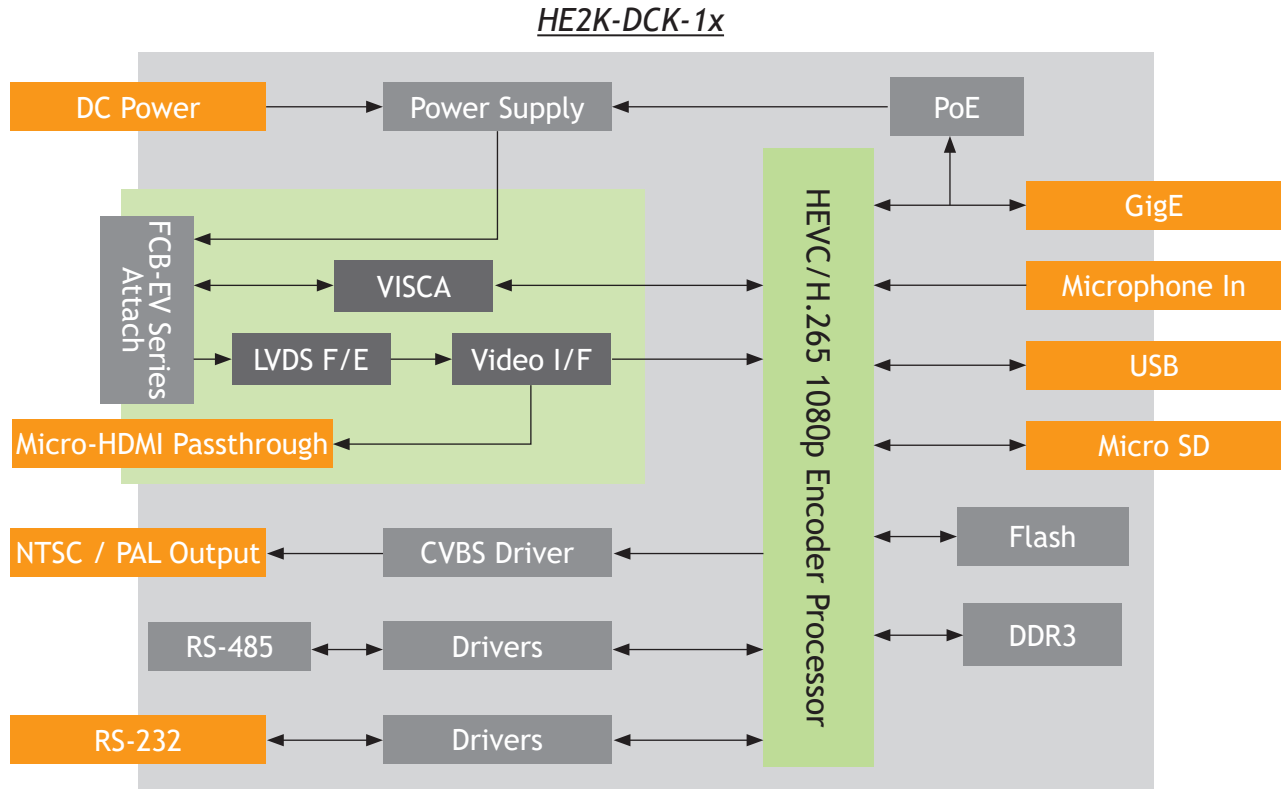
(UAV and Drones

Inspection

Remote Monitoring

Security and Surveillance

Video Conferencing

Customized Applications*

HE2K-DCK-1x

DC Power → Power Supply ← PoE

FCB-EV Series Attach

VISCA

LVDS F/E → Video I/F

Micro-HDMI Passthrough

NTSC / PAL Output ← CVBS Driver

RS-485 → Drivers

RS-232 → Drivers

HEVC/H.265 1080p Encoder Processor

GigE

Microphone In

USB

Micro SD

Flash

DDR3

HE2K-DCK-RPS Physical

KEL Con *

Sony FCB-EV Series Camera Block
(sold separately)

KEL Con

I/F Front End PCB

Connector 1

Main Encoder PCB

Connector 2

I/O Jack and PoE PCB

Jacks

*KEL ribbon cable sold separately

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

Z³ Technology is an industry-leading, USA-based manufacturer of production-ready embedded multimedia solutions and IP camera 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.

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE