Lightweight Dual Camera Full 3G-SDI Encoder

Designed for your UAV Visible & IR Needs

FSDI-DCK-15

- Interfaces with SDI, LVDS, and Composite cameras
- Programmable to support a variety of cameras
- High Quality Low Latency Encoding
- Camera Control Commands over IP
- ONVIF® Profile S & T Compliant
- Lightweight for UAV & other weight constrained Applications

The FSDI-DCK-15 is designed for dual camera UAV, inspection, surveillance, industrial and UAV applications. The flexibility of the system allows for a visible camera and an infrared or night vision camera. The hardware consists of a small 3-board set: Input, Encoder and Connector PCB. The system is capable of encoding multiple channels of H.265 and H.264 video in HD resolutions. The Input board features flexible digital and analog input ports. The encoder can be configured to stream over IP and simultaneously record to micro SD card. This compact design only uses 4.5 watts of power when streaming from 2 cameras. The FSDI-DCK-15 is preloaded with software for full functionality out-of-the-box.

Technical

Interfaces	•1x 3G-SDI Input with loop •1x Sony EV7520 compatible •2x Composite Input •1x Digital Input
•Visible Camera Formats	3G-SDI, LVDS, NTSC/PAL/RS170*
•HD and SD IR Formats	LVDS*, NTSC/PAL/RS170*
•Optional Formats	Cameralink, custom formats
•Recording	To Micro SD
•Additional Interfaces	100 Mbps Ethernet, Micro-HDMI Output
Video Codecs	H.265, H.264
Encoding Resolutions	1080p (up to 60fps), 720p, NTSC/PAL, VGA, CIF and QVGA
Output Formats	RTP, RTSP, MPEG-2 TS and RTMP
Features	• Lightweight, Low Latency, Low Power • Ability to Resize HD Camera Input to Lower Resolutions Keeping Full Field of View • SRT Modes Supported: Caller, Sender, Rendezvous & SRT Encryption • Pass Camera Control Commands over IP • Easy-to-Use HTTP-Based Control Interface • ONVIF® Profile S & T • Compatible with ZEUS® DMD-4K Video Decoder

Specifications

Encoder Board Size	58 x 58 mm (2.28 x 2.28 in)
Encoder Board Weight	60g (aluminum heat pipe is additional 40g)
Power Consumption	4.5W typical while encoding 2 cameras in H.265 video at 1080p60

ORDERING OPTIONS

FSDI-DCK-15

OEM Production Set

- FSDI-DCK-15 Encoder Boards

Note:

*1. Sony FCB-EV Series Camera Blocks and KEL ribbon cable sold separately**

2. Power and Ethernet cables sold separately

APPLICATIONS

UAV and Drones

Inspection

Security and Surveillance

Industrial

Customized Applications*

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

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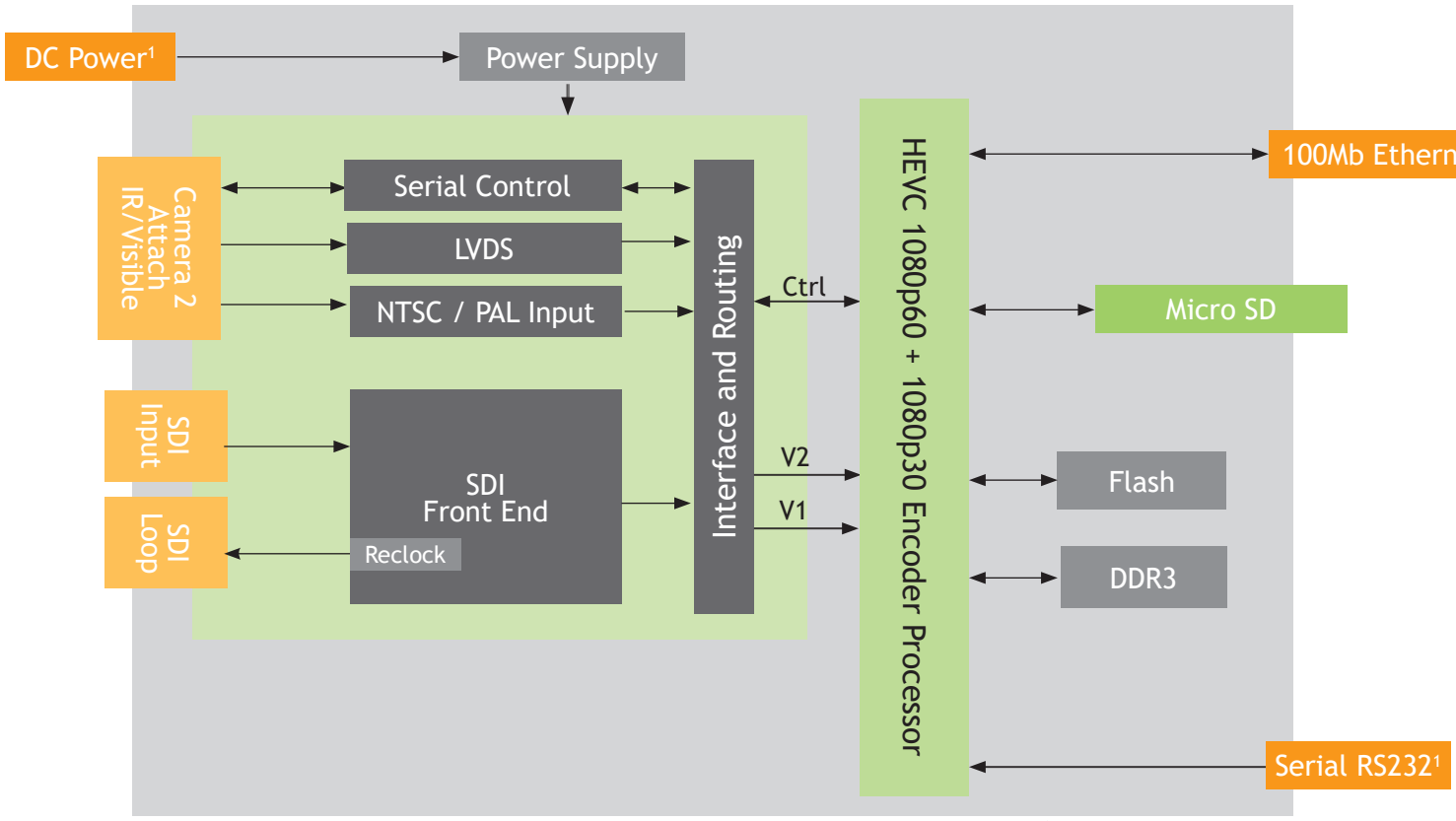
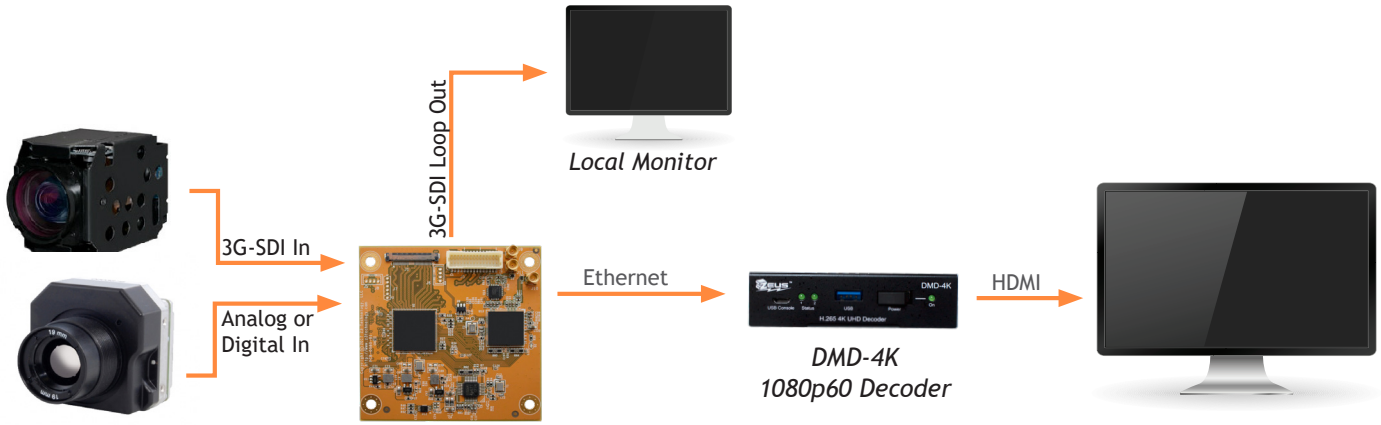
HW Block Diagram

FSDI-DCK-15 Encoder (H.265 1080p60 + 1080p30)



[1]Cables Sold Separately



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