

# Dual Camera Full 3G-SDI Encoder

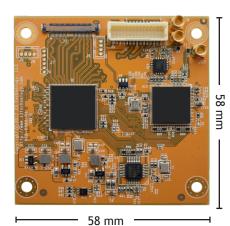
Designed for your Visible & IR Monitoring Needs FSDI-DCK-1x

- H.265/H.264 Dual Camera Video Streaming
- Interfaces with SDI, LVDS, and Composite cameras
- Programmable to support a variety of cameras
- High Quality Low Latency Encoding Pass Through
- Camera Control Commands over IP
- ONVIF® Profile S & T Compliant
- Composite Video Monitor Output
- Customizations Available\*

Technical

**Operating Temperature** 

The FSDI-DCK-1x is designed for dual camera 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 3-board set: Input interface, Encoder and Connector PCB. The system is capable of encoding and streaming multiple channels of H.265 and H.264 video in HD resolutions. The Input interface board features flexible digital and analog input ports. The encoder can be configured to stream over IP and simultaneously record to USB or micro SD card. This compact design only uses 4.5 watts of power when streaming from two cameras. The FSDI-DCK-1x is available in a ready to go prodution version or a customizable version.



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### **ORDERING OPTIONS**

FSDI-DCK-1x

OEM Production Set

- FSDI-DCK-1x Encoder Boards
- Note: Camera and cables sold separately

### FSDI-DCK-1x-RPS

OEM Starter Kit

- FSDI-DCK-1x Encoder Boards
- Power Supply
- Software SDK
- Documentation
- Serial Cable
- MMCX to BNC Cable

Note: Camera Block sold separately

#### **APPLICATIONS**

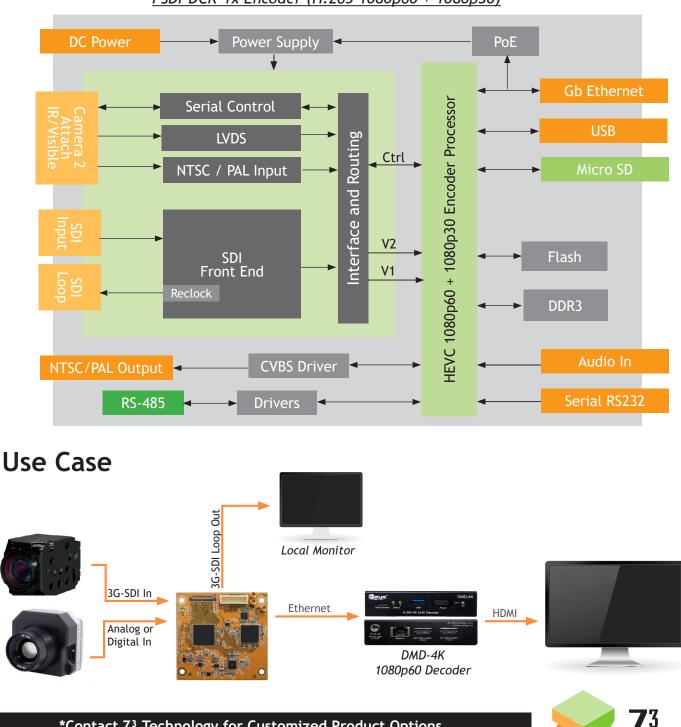
Inspection Security and Surveillance Industrial UAV and Drones Video Conferencing Customized Applications\*

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Interfaces	<ul> <li>1x 3G-SDI Input with loop</li> <li>1x Sony EV7520 compatible</li> <li>2x Composite Input</li> <li>1x Digital Input</li> </ul>
<ul> <li>Visible Camera Formats</li> </ul>	3G-SDI, LVDS, NTSC/PAL/RS170*
•HD and SD IR Formats	LVDS*, NTSC/PAL/RS170*
Recording	USB, or Micro SD
<ul> <li>Additional Interfaces</li> </ul>	PoE, GigE, Audio Input, RS-485, Composite Output, GPIO, I2C, Serial
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 <sup>1</sup>
Features	<ul> <li>Low Latency, Low Power</li> <li>Ability to Resize HD Camera Input to Lower Resolutions Keeping Full Field of View</li> <li>SRT Modes Supported: Caller, Sender, Rendezvous &amp; SRT Encryption</li> <li>Pass Camera Control Commands over IP</li> <li>Easy-to-Use HTTP-Based Control Interface</li> <li>ONVIF® Profile S &amp; T</li> <li>Compatible with ZEUS® Video Decoders<sup>1</sup></li> </ul>
Specifications	<sup>1</sup> in H.264 mode only
Encoder Board Size	58 x 58 x 38 mm (2.28 x 2.28 x 1.49 in)
Encoder Board Weight	104g (aluminum heat pipe is additional 40g)
Power Consumption	4.5W typical while encoding 2 cameras in H.265 video at 1080p60
Power Supply	12V DC
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-5°C to +70°C



## **HW Block Diagram**



FSDI-DCK-1x Encoder (H.265 1080p60 + 1080p30)

\*Contact Z<sup>3</sup> Technology for Customized Product Options sales@Z3technology.com +1.402.323.0702 www.Z3technology.com Z<sup>3</sup> Technology®

Z<sup>3</sup> 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.

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