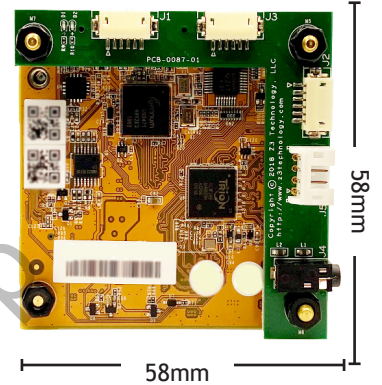
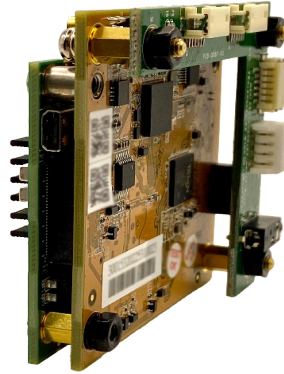




# Lightweight Dual Camera Full 3G-SDI Encoder

## FSDI-15A

- H.265/H.264 Dual Camera Video Streaming
- Interfaces with SDI, LVDS, and Composite cameras
- Supports Visible and Thermal Cameras
- Low Latency Encoding With Simultaneous Streaming & Recording
- Camera Controls Transmit over IP
- Pass KLV Metadata



The FSDI-15A is designed for dual camera inspection, surveillance, and UAV applications. The flexibility of the system allows for a visible camera and an infrared camera. The system is capable of encoding and streaming H.265 and H.264 video. The encoder can be configured to stream over IP and simultaneously record to micro SD card or NFS.

### Technical

Interfaces	<ul style="list-style-type: none"> <li>• 1x 3G-SDI Input</li> <li>• 1x LVDS via KEL</li> <li>• 1x Composite Input</li> </ul>
• Visible Cameras	3G-SDI Cameras
• IR Cameras	LVDS*, NTSC/PAL/RS170*, Boson®, Tau® 2, Tenum®
• Recording	Micro SD or NFS
• Additional Interfaces	100 MBPS Ethernet, SDI Loop Out, Composite Output, HDMI Output, LVTTTL UART x 2, GPIO x 2, RS232 Serial
Video Codecs	H.265, H.264
Encoding Resolutions	1080p (up to 60fps), 720p, NTSC/PAL, VGA, CIF and QVGA
Output Formats	RTP, TS RTP, RTSP, MPEG-2 TS, RTMPS, and RTMP <ul style="list-style-type: none"> <li>• Low Latency, Low Power</li> <li>• Ability to Resize HD Camera Input to Lower Resolutions Keeping Full Field of View</li> <li>• Control via Easy-to-Use HTTP-Based Control Interface, API, or Serial/SSH</li> <li>• Live video preview in the web GUI</li> <li>• ONVIF® Profiles S &amp; T Compliant</li> <li>• Compatible with ZEUS® Video Decoders</li> </ul>
Features	<ul style="list-style-type: none"> <li>• Pass Camera and PTZ Controls over IP</li> <li>• Embedded KLV Metadata Support via SDI or Serial, MISB 0601 Compliant</li> <li>• High Precision Timestamps Across Multiple Streams, MISB 0604 Compliant</li> <li>• Multiline text Overlay via the Web Gui or the API</li> <li>• Logo or Image overlay via the API</li> <li>• NMEA GPS Overlay</li> <li>• Region of Interest: Configurable Field of View</li> </ul>



### ORDERING OPTIONS

#### FSDI-15A-RPS OEM Starter Kit

- FSDI-15A Encoder Boards
- Power Supply
- Software SDK
- Documentation
- Serial Cable
- MMCX to BNC Cable
- KEL Ribbon Cable
- CBL-0047-01 - 4 pin Encoder Power Cable
- CBL-0048-01 - 4 pin Encoder Ethernet Cable

Note: Camera sold separately

#### FSDI-15A OEM Production Set

- FSDI-15A Encoder Boards

Note: Camera and cables sold separately

### APPLICATIONS

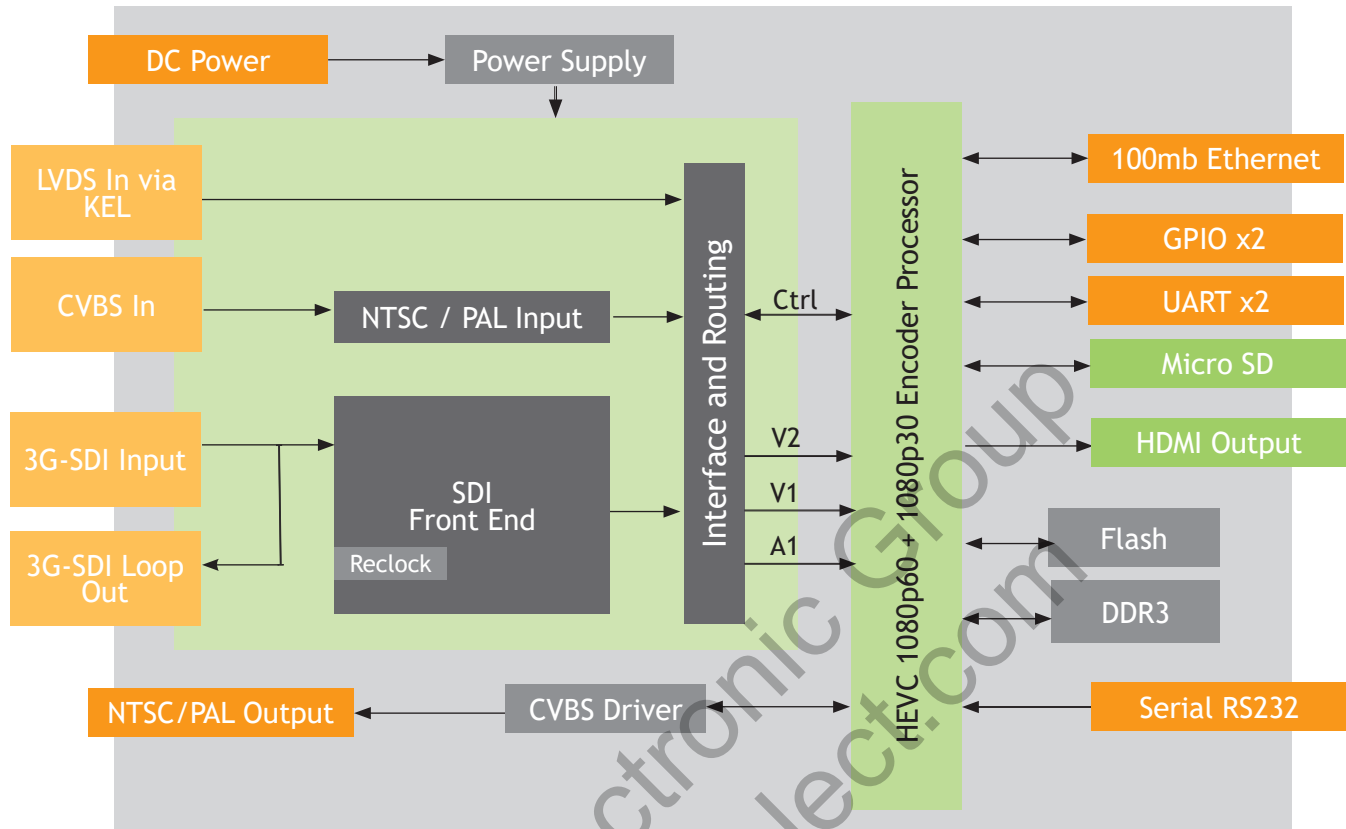
- Unmanned Systems
- Military Systems
- Inspection
- Surveillance

### Specifications

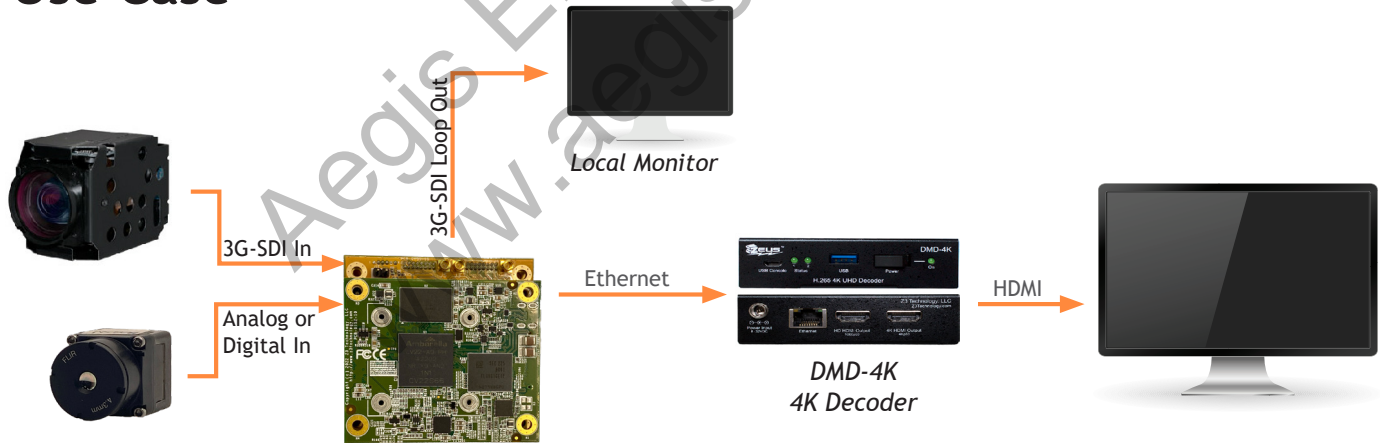
Encoder Board Size	58 x 58 x 29 mm (2.28 x 2.28 x 1.13 in)
Encoder Board Weight	59g (heat pipe is an additional 10g)
Power Consumption	4.5W typical while encoding 2 cameras in H.265 Video

# HW Block Diagram

FSDI-15A Encoder (H.265 1080p60 + Composite)



## Use Case



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.

