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# EVAL-ENCODE- DECODE-EX3

The video encoder and decoder EI3 extender boards are low-cost, plug-on extenders for EZ-Boards that support the Expansion Interface 3 (EI3) ... [Show More..](#)

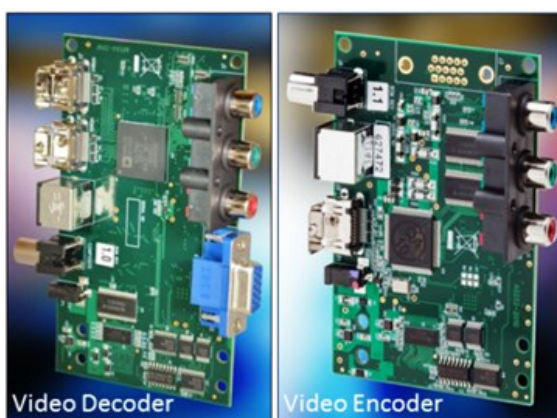
[Overview](#)

[System Requirements](#)

[Documentation](#)

[Software](#)

[Buy](#)



[Evaluation Kit Manuals Rev.1.1](#)

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## Features

- Dual HDMI 1.4 fast switching receiver.
- 12-bit, 170 MHz video and graphics digitizer.
- 3D comb filter decoder.
- 256 Mbit DDR SDRAM.
- Power and Two Hot Plug Detect LEDs.
- Connections include 2 HDMI, DB15 VGA, SVIDEO, Composite and Component.
- Formats up to 720p.
- Color depths up to 24-bits.
- Soft configuration.
- Multi-format video encoding.
- 225 MHz high performance HDMI transmitter with ARC.
- Six 12-bit noise shaped video DACs.
- Connections include HDMI, SVIDEO, Composite and Component.
- Formats up to 720p.
- Color depths up to 24-bits.

- Soft configuration.

## Product Details

The Video Decoder & Video Encoder EI3 Extender Boards, both EZ-Extender® products, are low cost platforms facilitating the evaluation of video processing on an Analog Devices Embedded Processor via Analog Devices' EZ-Board® development hardware and the CrossCore® Embedded Studio software development environment.

The encoder has two video output devices. The first is the Analog Devices ADV7511, an HDMI transmitter for home entertainment products such as gaming consoles, PCs, DVD players and recorders, digital set top boxes and A/V receivers. The second is the Analog Devices ADV7341, an encoder for DVD recorders and players and HD Blu-ray DVD players.

The decoder employs the Analog Devices ADV7842, a device for AVR video receivers, ... [Show More..](#)

## System Requirements

- Windows XP Professional SP3 (32-bit only).
- Windows Vista Business/Enterprise/Ultimate SP2 (32-bit only). It is recommended to install the software in a non-UAC-protected location.
- Windows 7 Professional/Enterprise/Ultimate (32 and 64-bit). It is recommended to install the software in a non-UAC-protected location.
- Minimum of 2 GHz single core processor, 3.3 GHz dual core is recommended.
- Minimum of 1 GB memory (RAM), 4 GB is recommended.
- Minimum of 2 GB hard disk (HDD) space is required.
- CrossCore Embedded Studio for Analog Devices Processors.

## Documentation

3 See All

2 Evaluation Kit Manuals

1 Board Design Database

### Video Decoder EI3 Extender Board Manual (Rev. 1.1)

PDF

578 kB

### Video Encoder EI3 Extender Board Manual (Rev. 1.1)

PDF

529 kB

### Video Decoder & Video Encoder EI3 Extender Board - Board Design Database (Rev. 1.0)

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## Software

## Blackfin Software Modules

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### Video Decoder & Video Encoder EI3 Extender Board - Board Support Package - Current Release (Rev. 1.1.0)

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### Video Decoder & Video Encoder EI3 Extender Board - Board Support Package - Previous Release (Rev. 1.0.0)

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## Blackfin Processors Software and Tools

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### CrossCore Embedded Studio

CrossCore® Embedded Studio is a world-class integrated development environment (IDE) for the Analog Devices Blackfin®, SHARC® and ARM™ processor families.

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### Vision Analytics Toolbox, Blackfin

The Vision Analytics Toolbox (VAT) library for the Blackfin processor provides a set of software modules that make use of primitives from the video content analysis toolbox (VCAT) and provides solutions to relatively complex problems like face detection, edge detection, shape detection, classification, and others.

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### MPEG-4 SP/ASP Decoder, Blackfin

The ADI MPEG-4 SP/ASP Decoder library for the Blackfin processor implements an MPEG-4 video decoder, which is compliant with the INTERNATIONAL STANDARD ISO/IEC14496-2, Information technology — Coding of audio-visual objects — Part 2: Visual, Third edition 2004-06-01.

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### HOG SVM DETECTOR, BLACKFIN

Blackfin HOG SVM Detector

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### Evaluation Boards

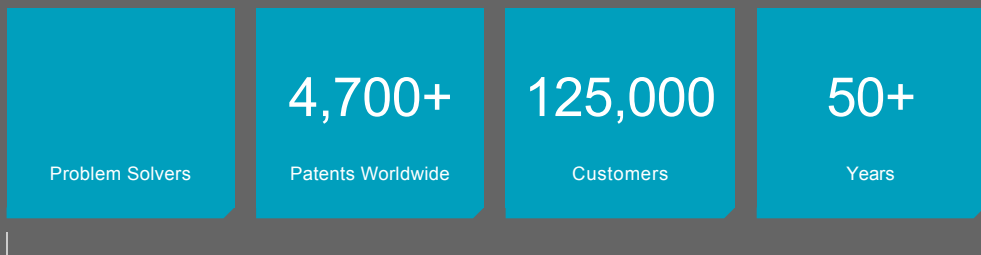
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Model	Description	Price	RoHS

ADZS-DECODE-EX3 Production	Video Decode extender for EI3 Interface		Yes
ADZS-DECODEK-EX3 Production	Video Decoder Keyed Extender for EI3		Yes
ADZS-ENCODE-EX3 Production	Video Encode extender for EI3 Interface		Yes

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