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Audio Video Development Kit, Stratix IV GX Edition

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from **Altera**

The Audio Video Development Kit, Stratix® IV GX Edition, delivers a complete video and image processing development environment for design engineers. The kit facilitates the entire design process, from design conception through hardware implementation.

This kit includes the Stratix IV EP4SGX230 Audio Video development board, Quartus® II development software, evaluation intellectual property (IP) cores — including the Video and Image Processing Suite — the serial digital interface (SDI) reference design, as well as power supplies, cables, and documentation.

- ? [Ordering Information](#)
- ? [Development Kit Contents](#)

Ordering Information

Table 1. Audio Video Development Kit, Stratix IV GX Edition Ordering Code and Pricing Information		
Ordering Code	Price	Ordering Information
DK- Video - 4SGX230N	\$4,995 Buy Now ▶	In North America, call 1 -888 -800 -0631. For international sales, contact your local distributor .

Development Kit Contents

The Audio Video Development Kit, Stratix IV GX Edition features:

- ? Stratix IV GX FPGA development board with a EP4SGX230KF40C2N device
- ? The transceiver serial digital interface (SDI) high -speed mezzanine card (HSMC)
- ? Video/audio interfaces
 - ? HDMI video output on the FPGA host board
 - ? One 3G -SDI video input and output on the FPGA host board
 - ? Two additional SDI inputs and outputs for triple -rate SDI supporting 3G, and high -definition (HD) and standard -definition (SD) standards on the HSMC
 - ? Two AES inputs and outputs on the HSMC
- ? Memory devices
 - ? 512 -MByte DDR3 SDRAM with a 64 -bit data bus
 - ? 128 -MByte DDR3 SDRAM with a 16 -bit data bus
 - ? Two 4 -MByte QDR II+ SRAMs with 18 -bit data buses
 - ? 64 -MByte sync flash and 2 -MByte SSRAM external memory
- ? Loopback and debug HSMCs
- ? Stratix IV GX FPGA Development Kit CD -ROM
 - ? Complete board documentation, including board design files, reference manual, and user guide
 - ? Design examples: Board Update Portal and Board Test System
- ? Altera Complete Design Suite DVD
 - ? Quartus II Software Development Kit Edition, 1 -year license
 - ? Nios® II Embedded Design Suite
 - ? OpenCore Plus access to the MegaCore® IP library, including the Altera Video and Image Processing Suite of intellectual property (IP) cores
 - ? SDI reference design
- ? USB and Ethernet cables
- ? AC adapter power supply
- ? Board design files
 - ? Schematics
 - ? Layout (Allegro format)
- ? Restriction of hazardous substances (RoHS) compliance

Figure 1 Audio Video Development Kit, Stratix® IV GX Edition



Available Documentation

Table 2. Collateral for the Audio Video Development Kit, Stratix IV GX Edition		
Document	Description	Version
User Guide	Information about setting up the Stratix IV GX FPGA development board and using the included software	9.1.0
Host Board Reference Manual SDI HSMC Reference Manual	Detailed information about board components and interfaces	9.1.0
Kit Installation, for Boards with Production Silicon	Full installation of all files including reference manual, user guide, quick start guide, BOM, layout, PCB, schematics, Board Update Portal example file, Board Test System example file, etc.	- 9.1.0

Keep up to date with Altera's video and image processing offerings by signing up for the [DSP e -newsletter](#).

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