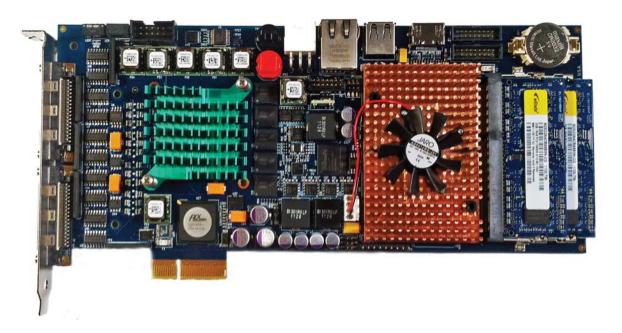




FASTX-APU FRAMEGRABBER

The FastX-APU framegrabber series is for users who anticipate a demand for extreme I/O requirements and/or higher bandwidth, complex image processing and real-time high-speed storage in a cost effective platform. The base FastX-APU, is a two thirds length raw form factor PCIe (X4) Gen2 board with either six basic 85 MHz Camera Link Channels up to two extended full Camera Link camera interfaces. An auxilliary I/O connector provides a header for adaptation of other high speed interfaces such as GigEx4, high speed analog formats such as UXGA or DVI, or CoaXPress. The front-end data is formatted and preprocessed by a Kintex FPGA before being sent to the PCIe (X4) Gen 2 switch to the host or the AMD APU.



FASTX-APU PCIe KEY FEATURES:

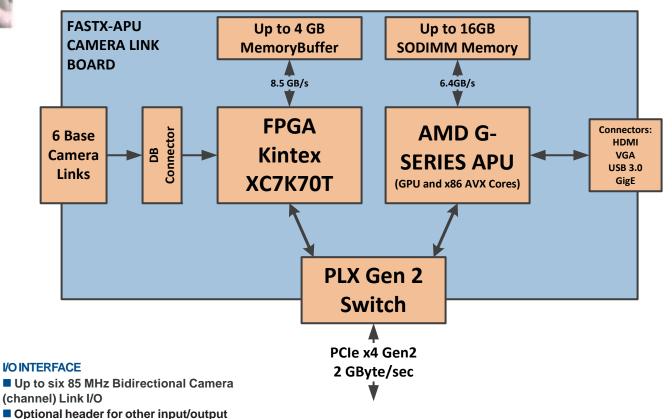
- Raw PCI form factor board with 4 GB dedicated high speed DD2 DRAM for the front end Xilinx Kintex FPGA for sustained real-time front-end processing
- The latest AMD G-Series APU with 16 GB of DDR3 memory for real-time compute intensive processing
- Collects data from up to six asynchronous Camera (channel) Links
- Programmable Kintex FPGA for I/O interface configuration and processing
- Four lane PCle gen 2 bus interface
- Optional high speed I/O interface for alternative input formats such as GigEx4, UXGA/DVI, or CoaXPress
- Supported by industry standard firmware development tools, including fully optimized basic data manipulation, data formatting and image processing routines written in open CL
- Drivers for Windows[™] 7, Linux



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FASTX-APU BOARD OVERVIEW



DVI, or CoaXPress PCI-e INTERFACE

■ Data width - four lane PCI-express gen 2

options including digital GigEX4, UXGA or

■ Peak DMA rate - 2GB/sec bidirectional.

PROCESSOR

■ AMD G-Series APU with 16 GB DDR3 DRAM memory

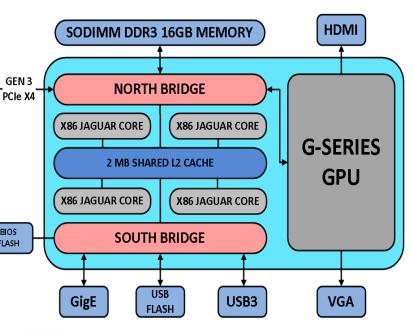
CAMERA CONTROL

- Serial port- Asynch., RS-232 which runs from 75 to 11.2K baud
- Camera Link controls (optional)

FPGA/MEMORY OPTION

■ Four GB DDR2 DRAM memory directly connected to the input Kintex FPGA for highspeed input

AMD G-SERIES APU DIAGRAM





BIOS

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