FAST-UXGA FRAME GRABBER

The Fast-UXGA is a two thirds raw-length PCI board with two (four muxed) UXGA input channels each with up to 205 MHz data acquisition rates. The front end data is formatted and preprocessed by a FPGA before being sent to the memory subsection, processor, GigE interfaces or other outputs. Finally, the Fast-UXGA interfaces to the host computer through a 4xPCIe or PCI-X interface for state-of-the-art data acquisition. Options include the addition of multiple(8) Serial ATA (SATA) 150 MB/sec interfaces for continuous high-speed data storage without the usual OS or PCI transfer delays and four GigE ports.

The Future of Image Aquisition and Processing

Fast-UXGA PCI-e and PCI-X Key Features:

- **Raw PCI form factor board with 1-2GB dedicated high speed DDRAM for sustained real-time on-board storage**
- **STRETCH 5610 processor standard with 4 GigE interfaces for 100MBytes/sec per channel actual transfer I/O**
- **Collects data from two asynchronous (four muxed) UXGA 205 MHz channels**
- **Programmable FPGA for I/O interface configuration and processing**
- **PCI-X or PCI-e x4 bus interface**
- **Supported by standard firmware development tools, including fully optimized basic data manipulation, data formatting and image processing routines**
- **Drivers for Windows™ XP/Vista, Linux and Solaris™**

ALACRON

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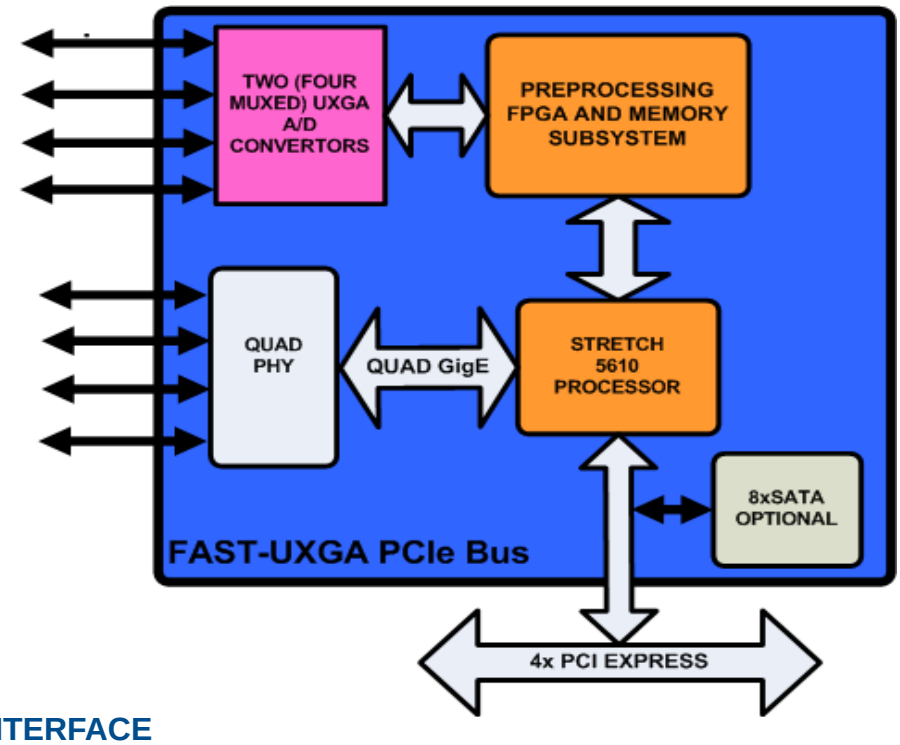
FAST-UXGA BOARDS



PCI-e INTERFACE

- Data width - x4 PCI-express
- Peak DMA rate - 1 GB/sec bidirectional.

PCI-X INTERFACE

- Data width - 32/64 bits
- Peak tranfer rate of 133 MHz

PROCESSOR OPTIONS

- One STRETCH processor with up to 2 GB of PC3200 DDRAM memory

SERIAL ATA I/O OPTION

- Up to eight SATA 150 MB/Sec disk I/O channels for high-speed real-time storage as JBOD or Raid

CAMERA CONTROL

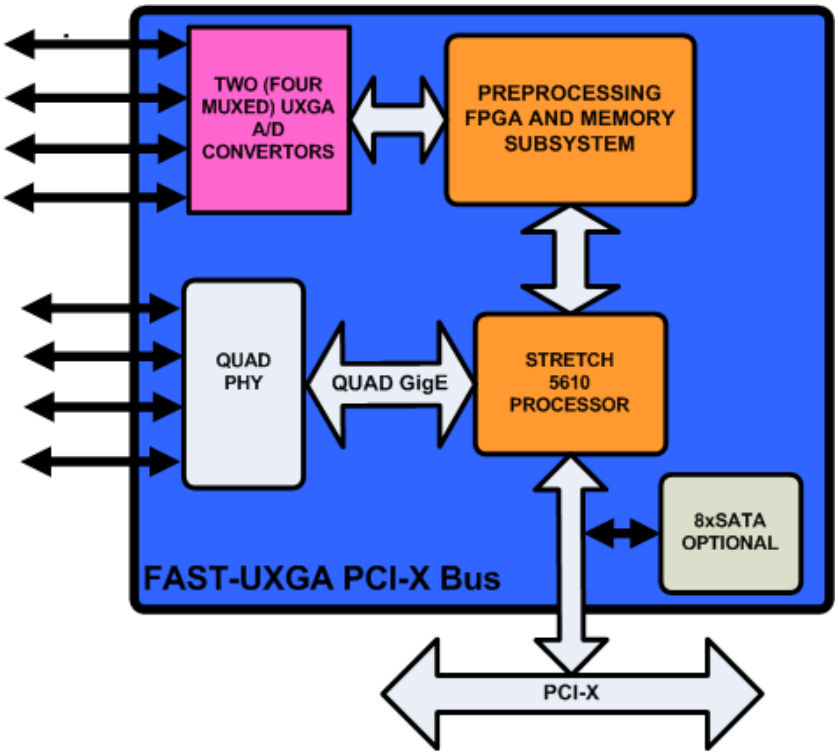
- Serial port- Asynch., RS-232 600-19,200 Baud

MEMORY OPTION

- One to two gigabytes of DDRAM memory directly connected to the input fpga for high-speed input

PCI-EXPRESS OPTION

- If sustained high-speed storage is desired up to eight SATA ports are available on the FAST-Xe for JBOD or raided storage of hundreds to thousands of gigabytes of storage per card.



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