



FASTX-UXGA FRAME GRABBER

The FastX-UXGA is a 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, from zero to four Nexperia PNX1702 VLIW processors before output. Finally, the Fast-UXGA interfaces to the host computer through a 4xPCIe interface for state-of-the-art data acquisition.



The Future of Image Acquisition and Processing

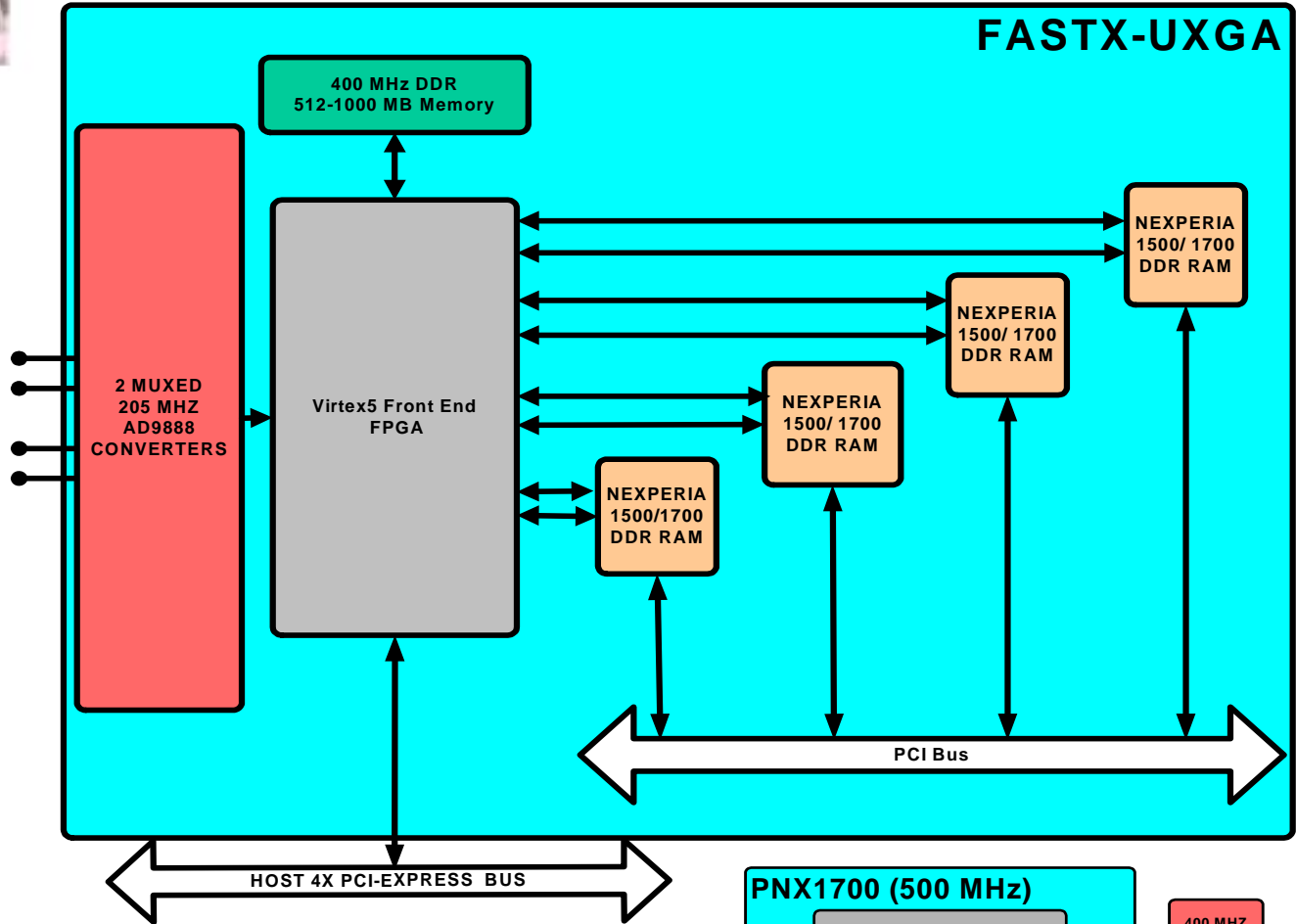
FASTX-UXGA PCI-e KEY FEATURES:

- Raw PCI form factor board with dedicated high speed DDRAM interfaced to the Xilinx Virtex5 FPGA for sustained real-time on-board storage
- From Zero to four Nexperia PNX1702 VLIW processors
- Collects data from two asynchronous (four muxed) UXGA 205 MHz channels
- Programmable FPGA for I/O interface configuration and processing
- 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™





FAST-UXGA BOARDS



PCI-e INTERFACE

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

PROCESSOR OPTIONS

- From zero to four Nexperia 500 MHz PNX1702 VLIW processors with up to 256 MB of DDRAM memory per processor.

CAMERA CONTROL

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

MEMORY OPTION

- DDRAM memory directly connected to the input Xilinx Virtex5 FPGA for high-speed input

