FastFrame-XB Express Card

Alacron introduces the FastFrame-XB. Available in analog, digital, and Camera Link configurations for greater flexibility and cost savings. The FastFrame-XB uses the newest FPGA and PCIe interface technology to produce a card with superior performance, low power, and storage for frame buffering/processing.

The Future of Image Acquisition and Processing

FastFrame-XB Key Features:

- PCIe ExpressCard form factor, both 34mm and 54mm available
- Digitizes two simultaneous channels of RS-170/NTSC/PAL/SECAM with
- Up to 4 VCBS multiplexed inputs
- 36 programmable single ended or 18 pairs differential input signals
- 85 MHz Camera Link Base or Medium interface
- Programmable FGPAs for I/O interface and application development
- Express Card interface (Single Lane PCIe)
- Multiple Software environments available:
  - FastMotion Application for Stand-alone data collection and storage
  - FastMotion DLL for Visual C/C++, VB, Labview and Matlab development
  - Drivers for Windows™ 2K/XP/XP64/Vista32/Vista64, Solaris™ and Linux

CAMERA Link

ALACRON

71 Spit Brook Road, Suite 200, Nashua, NH 03060
T: 603.891.2750 • F: 603.891.2745
E: sales@alacron.com • **www.alacron.com**

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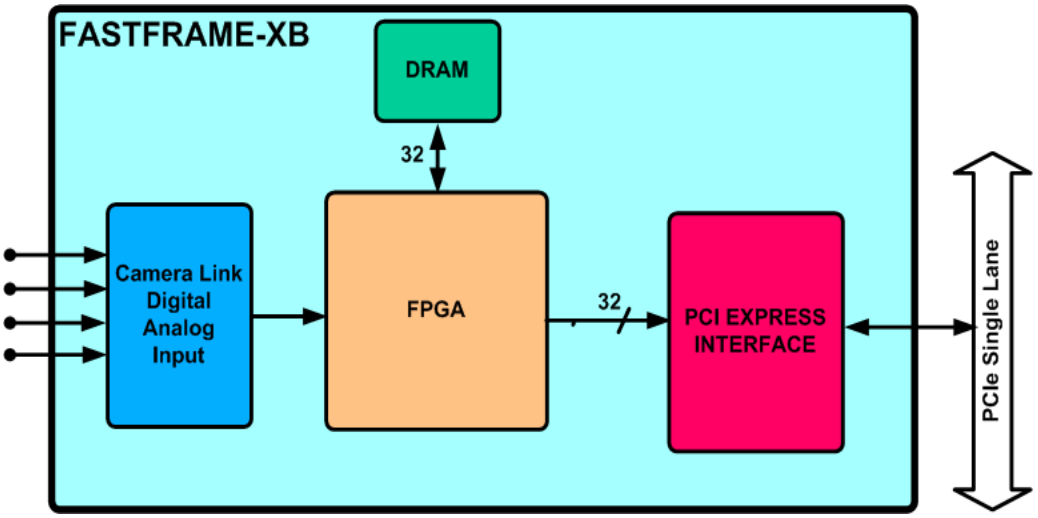

INTERFACE OPTIONS

NTSC/PAL COMP. VIDEO CAP.

- Two Analog input decoders, Digitizes two simultaneous channels
- Formats supported - NTSC (M, 4.43), PAL (B, D, G, H, I, M, N), and SECAM (B, D, G, K, K1, L) video data, RS-170
- ITU-R BT.601 standard sampling
- High-speed 9-bit ADC
- Input impedance – 75Ù.
- Channel crosstalk – -56 dB max.

DIGITAL VIDEO CAPTURE

- 12 pair differential or 24 bit single ended operations.
- Comprehensive standards support: LVCMOS; LVTTL; PCI, PCI-X; LVDS, Bus-LVDS, MLVDS, LVPECL; with programmable On Device Termination (ODT)
- Programmable direct via FPGA Firmware
- Max. clock rate – 595 MHz

CHANNEL LINK

- Bi-directional Camera Control interface
- Base or Medium Camera Link supported

CAMERA CONTROL

- Serial port - Asynch. RS-232, 600-19,200 Baud
- Frame/line start outputs
- External trigger
- RS-422, LVDS signaling

PCMCIA INTERFACE

- PCIe interface
- ExpressCard version 1.2
- Peak Data 2.5 Gigabits/sec, 250 MB/sec
- Up to 250 MB/sec through put, limited by your PC
- FPGA Processing
- 128 MB Internal Memory Buffer

ENVIRONMENTAL

- Power comsumption less than 1.0 Watt.
- Temperature range 0 to 50 degree C
- Optional Industrial temperature range version for -20 to 85 degree C operation (Consult factory)

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