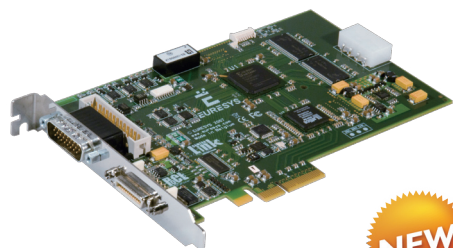


Grablink Quickpack CFA PCIe

Color Area-scan and Pre-processing PCI Express® Camera Link® Frame Grabber



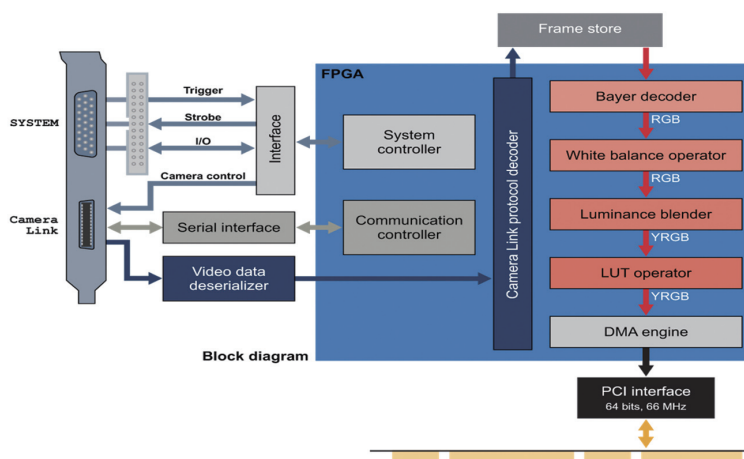
NEW



Introduction

The Grablink Quickpack CFA (Color Filter Array) offers a set of dedicated on-board preprocessing functions to speed up image processing for applications such as PCB, food or pharmaceutical inspection without loading the host CPU.

Image pre-processing functions accelerated by the FPGA



Features

- PCI Express® x4
- Image pre-processing accelerated by the FPGA
- Camera Link® Base configuration: 24-bit @ up to 85 MHz
- PoCL (Power over Camera Link®) safe power compliant
- Image resolution up to 7616 x 4096
- 128 MB frame buffer

Applications

- Quality control
- Semiconductor inspection
- PCB inspections
- FPD inspections
- On-the-fly image acquisition
- High frame rate image acquisition

Software Support

- EasyMultiCam is the unique driver which serves the PicoLo, Domino, and Grablink series frame grabbers.
- The EasyMultiCam driver runs under Microsoft Windows 2000®, XP®, Server 2003®, Vista®, and Linux Kernels 2.6.18 and 2.6.24

Ordering Information

- **Grablink Quickpack CFA PCIe**
Color area-scan and pre-processing PCI Express® Camera Link® frame grabber

Accessories

Cabling

- **Camera Link Cable**
5 M, robot type

- ◆ All operators are compatible with 8/10/12-bit input images.
- ◆ **A Bayer Pattern decoder** computes the R, G, and B components of the image
- ◆ **An automatic White Balance Operator**
 - can be specified by the user or computed automatically from the image
 - can be continuously computed (on each image) or once only (under user control)
 - can be computed from automatically selected white pixels in the image or from a user-specified region of interest
- ◆ **A luminance blender** computes the Y component of the image
- ◆ **Four 16-bit x 16-bit LUT operators** on R, G, B and Y channels are included



Raw image



Bayer pattern decoder



White balance



Luminance blender