



# GRABLINK Full™

Full Featured Camera Link Frame Grabber - Base, Medium and Full -

The Grablink Full is a **cost-effective full-featured** frame grabber for single Camera Link camera applications. It supports one Base-, Medium- or Full-configuration camera, including 10-tap. The Grablink Full features **on-board processing**, such as LUTs and a Bayer CFA decoder, in addition to a **rich set of IO lines** compatible with a wide range of sensors and encoders, and a **4-lane PCI Express bus**.

This high-end acquisition board targets **high-speed** and **high-resolution** area-scan and line-scan applications such as printing, web and flat panel display inspection, 3D inspection and manufacturing inspection for fast production lines.

- **For one Full, Medium or Base Camera Link® configuration camera**

- Including 10-tap configuration cameras

- **On-board processing**

- LUTs, Bayer CFA decoder

- **Rich set of digital IO lines compatible with a wide range of sensors and encoders**

- Two high-speed differential RS-422 inputs
- Four individually-isolated wide-voltage-range inputs
- Four individually-isolated contact outputs

- **Form factor:**

- PCI Express x4, full-height, half-length



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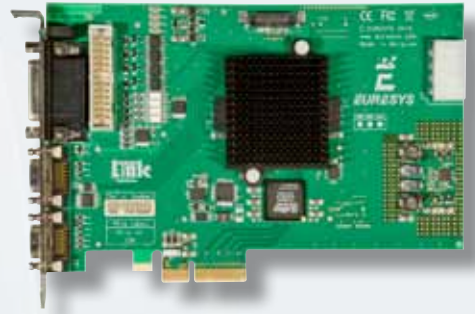
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## Support of one Full, Medium or Base Camera Link® configuration camera

- **Types of cameras supported:**
  - Monochrome, Bayer CFA, and color RGB
  - Progressive area-scan cameras
  - Line-scan cameras
    - Continuous (web) or finite (page) acquisition modes
    - Extensive set of trigger modes to start the acquisition of pages
      - Trigger decimation to reduce the trigger rate
    - Extensive set of line trigger modes to control and synchronize line-scan cameras
      - Support of quadrature incremental motion encoders, with optional direction selection and backwards motion cancellation
      - Rate divider and rate converter to adjust the line rate while maintaining synchronization with the motion encoder; non-integer rate conversion ratios are available for fine tuning
      - Periodic generator to select a fixed line rate
  - From 1-tap to 10-tap configuration cameras
  - Full pixel clock range: from 20 MHz up to 85 MHz
- **Four fully-configurable upstream control lines**
- **Serial communication interface (600 ~230400 bit/s)**
- **2 Mini Camera Link® SDR connectors**



## On-board processing

- **Image reconstruction:** tap re-ordering and horizontal/vertical flipping
- **Bayer CFA decoder**
- **Look-up table transformation**
  - Monochrome operation with selectable output bit depth: 8 bits, 10 bits, 12 bits or 16 bit
  - RGB and Bayer color operations with selectable output bit depth: 3 x 8 bits, 3 x 10 bits, 3 x 12 bits or 3 x 16 bits
- **High-performance 800 megabytes/sec DMA transfers into user allocated memory with 64-bit addressing capability with image cropping capability**

## 128MB on-board memory

## Rich set of digital IO lines

- **I/O electrical style**
  - Two high-speed differential RS-422 inputs
  - Four individually-isolated wide-voltage-range inputs
  - Four individually-isolated contact outputs
  - +5V and +12V power output with electronic fuse protection
  - One external system IO connector
- **I/O functions**
  - General purpose usage
  - Trigger source from external signals
  - EndTrigger sources from external signals
  - Line Trigger source from one or a pair of external signals
  - Strobe output delivered through an isolated contact output

## MultiCam driver

- **Seamless migration from previous generation of Grablink boards**
- **Operates on 32- and 64-bit Windows and Linux operating systems**
- **Camera Link® serial communication DLL or COM port emulation**

## Form factor

- **PCI Express x4, full-height, half-length**

### Ordering Information

<b>ORDER CODE</b>	<b>DESIGNATION</b>
1622	GRABLINK Full

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