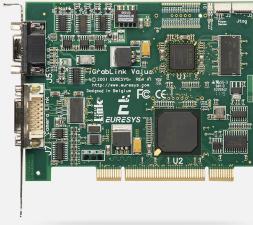


Grablink Value

用于一个基本配置 Camera Link 摄像机的图像采集卡



一览

- 对于 Camera Link Base 配置摄像机
- 直接兼容市场上数以百计的 Camera Link 摄像机
- PCI 32 位 33 MHz, 90 MB/s 的持续传输带宽
- 8 MB 板载内存
- 特征丰富的 4 条数字 I/O 线

优势

直接兼容市场上数以百计的 Camera Link 摄像机

检查我们的摄像机兼容页面（在支持菜单中）以下载相关 Cam 文件。

通用 I/O 线

兼容多种传感器和运动编码器。

高性能 DMA（直接存储器存取）

- 直接传送到用户分配的内存
- 硬件分散 — 聚集支持

带有速率转换器的柔性线扫描摄像机操作。

- 速率转换器是一个智能的、可编程的倍频器/分频器。
- 用于运动编码器和线扫描摄像机，允许用户选择该图像中的像素纵横比。
- 它提供了一种方法来校准采集链以轻松达到正方形（1:1 纵横比）像素。

提供 Windows 和 Linux 驱动程序

应用

电子制造业的机器视觉

用于检查机器的高速图像采集。

Coaxlink 和 Grablink 卡是可靠的工业图像采集卡，从最快的数码摄像机提供强大和稳定的图像采集。它们的特点是精确的摄像机控制和同步功能。

- AOI（自动光学检测）机
- 3D SPI（锡膏检测）机
- 3D 引线/球型检查机

用于检查机的极高分辨率的线扫描图像采集

Coaxlink 和 Grablink 卡是可靠的工业图像采集卡，从最快的数码摄像机提供强大和稳定的图像采集。它们的特点是精确的线扫描摄像机控制和同步功能。

- 平板显示检测
- 太阳能电池检查

一般制造业的机器视觉

用于检查机的高帧率图像采集

玻璃检测：瓶、小瓶

表面检测机的线扫描图像采集

Coaxlink 和 Grablink 卡是可靠的工业图像采集卡，从最快的数码摄像机提供强大和稳定的图像采集。它们的特点是精确的线扫描摄像机控制和同步功能。

用于纺织品检测的线扫描图像采集

印刷业的机器视觉

用于印刷检查机的高速线扫描图像采集

- 包装打印检查
- 标签打印检查

视频采集和录制

用于运动分析和记录的高帧速率视频采集

规范

Mechanical

Form Factor	PCI card
Format	Standard profile, half-length, 32-bit Conventional PCI card
Cooling method	Air-cooling
Mounting	For insertion in a standard height, 32- or 64-bit, PCI card slot
Connectors	<ul style="list-style-type: none">• 'CAMERA LINK' on bracket:<ul style="list-style-type: none">– 26-position Mini Delta Ribbon (MDR) socket– Camera Link connector• 'SYSTEM I/O' on bracket:<ul style="list-style-type: none">– 9-pin 2-row female sub-D connector– I/O lines and power output
Dimensions	L 130 mm x H 104 mm L 5.12 in x H 4.09 in

Host bus

Standard	PCI 32-bit, 33 MHz, 3.3 V and 5 V signaling
DMA	32-bit
Peak delivery bandwidth	132 MB/s
Effective (sustained) delivery bandwidth	90 MB/s (Host PC motherboard dependent)
Power consumption	Max. 3.5 W (700 mA @ +5V), excluding I/O power output

Camera / video inputs

Interface standard(s)	Camera Link
Connectors	1 Mini Delta Ribbon (MDR) Camera Link (CL)
Number of cameras	One Base camera
Line-scan cameras supported	Yes
Maximum aggregated camera data transfer rate	1.44 Gbit/s (180 MB/s)
Camera Link configuration	Base
Camera Link clock frequency range	From 20 MHz up to 60 MHz
Camera types	<ul style="list-style-type: none">• Gray-scale and color (RGB and Bayer) cameras• Area-scan and line-scan cameras
Camera pixel formats supported	Monochrome, Bayer, and RGB (PFNC names): <ul style="list-style-type: none">• Mono8, Mono10, Mono12, Mono14, Mono16• BayerXX8, BayerXX10, BayerXX12, BayerXX14, BayerXX16 where XX = GR, RG, GB, or BG• RGB8

Video delivery

Raw video format(s)	<ul style="list-style-type: none">• Monochrome formats: Y8, Y10, Y12, Y14, Y16• Packed RGB color formats: RGB24, RGB32• Planar RGB color formats: RGB24PL, RGB30PL, RGB36PL, RGB42PL, RGB48PL• Additional formats: BAYER8, BAYER10, BAYER12, BAYER14, BAYER16, RAW8, RAW10, RAW12, RAW14, RAW16
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On-board processing

On-board memory	8 MB (4 MB for image data)
Image data stream processing	<ul style="list-style-type: none">• Unpacking of 10-/12-/14-bit to 16-bit with selectable justification to LSb or MSb
Geometrical operators	<ul style="list-style-type: none">• Cropping (not available for 2YE cameras)• Left/right and up/down mirroring

General Purpose Inputs and Outputs

Number of lines	4 I/O lines: <ul style="list-style-type: none">• 2 differential inputs (TRG)• 1 isolated output (STR)• 2 multimode inputs/outputs (A1, A2)
Usage	<ul style="list-style-type: none">• Camera and image acquisition trigger• Light strobe trigger• Camera synchronization using motion encoder• General purpose IO
Electrical specifications	<ul style="list-style-type: none">• A1, A2: Inputs or outputs, isolated up to 500 V:<ul style="list-style-type: none">– Input: compatible with TTL or 12V signals– Output: TTL, open-collector or open-emitter• TRG: LVDS trigger input• STR: TTL strobe output
Filter control	<ul style="list-style-type: none">• Glitch removal filter available on input lines used as trigger sources:• Configurable with five time constants:<ul style="list-style-type: none">– 100 ns, 500 ns and 2.5 μs for trigger/ page trigger /page end trigger sources– 100 ns, 500 ns, 2.5 μs for line trigger source
Power output	<ul style="list-style-type: none">• Non-isolated +5V, 1A and +12V, 500 mA with self-resettable fuse protection• Isolated +5V 100 mA with elf-resettable fuse protection

Software

Host PC Operating System	<ul style="list-style-type: none">• Microsoft Windows 10, 8.1, 8, 7, XP• Microsoft Windows Server 2012 R2, 2012, 2008 R2• Linux Kernel versions from 2.6 up to 3.13, compatible with a wide range of distributions• 32- and 64-bit versions
APIs	<ul style="list-style-type: none">• MultiCam 32-bit and 64-bit binary libraries (Windows and Linux), for ISO-compliant C/C++ compilers• DirectShow filters (Windows only) for Microsoft Visual C++ compilers (32-bit only)

Environmental conditions

Operating ambient air temperature	0 to +50 °C / +32 to +122 °F
Operating ambient air humidity	10 to 90% RH non-condensing
Storage ambient air temperature	-20 to +70 °C / -4 to +158 °F
Storage ambient air humidity	10 to 90% RH non-condensing

Certifications

Electromagnetic - EMC standards	<ul style="list-style-type: none">• The European Council EMC Directive 2004/108/EC
EMC - Emission	<ul style="list-style-type: none">• EN 55022:2010 Class B
EMC - Immunity	<ul style="list-style-type: none">• EN 55024:2010 Class B• EN 61000-4-2• EN 61000-4-3• EN 61000-4-4
Flammability	PCB compliant with UL 94 V-0
RoHS	Compliant with the European Union Directive 2011/65/EU (ROHS2)
REACH	Compliant with the European Union Regulation No 1907/2006
WEEE	Must be disposed of separately from normal household waste and must be recycled according to local regulations

Ordering Information

Product code - Description	<ul style="list-style-type: none">• 1191 - Grablink Value
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