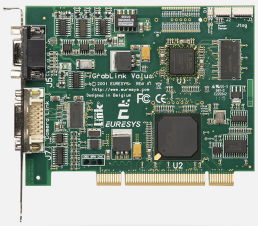
euresys
Empowering Computer Vision

请勿用于新设计

Grablink Value

用于单个基本配置 Camera Link 相机的图像采集卡



特性一览

- 对于 Camera Link Base 配置相机
- 直接兼容市场上数以百计的 Camera Link 相机
- 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 相机

查看我们支持的相机页面（在“支持”菜单中）

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

通过速率转换器实现灵活的线扫相机操作

- 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相机，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

规格

Mechanical

Format	Standard profile, half-length, 32-bit Conventional PCI card
Cooling method	Air-cooling, fanless
Mounting	For insertion in a standard height, 32- or 64-bit, PCI card slot

Connectors	• 'CAMERA LINK' on bracket:
	  − 26-position Mini Delta Ribbon (MDR) socket
	  − Camera Link connector
	• 'SYSTEM I/O' on bracket:
	  − 9-pin 2-row female sub-D connector
	  − I/O lines and power output

Dimensions	PCB L x H: 130 mm x 104 mm, 5.12 in x 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	One Mini Delta Ribbon (MDR) Camera Link (CL)
Number of cameras	One Base camera
Maximum aggregated camera data transfer rate	1.44 Gbit/s (180 MB/s)
Camera Link configuration	Base
Camera Link clock frequency	From 20 MHz up to 60 MHz
Camera types	Grayscale and color (RGB and Bayer) area- and line-scan cameras

Video delivery

Raw video format(s)	• 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

On-board processing

On-board memory	8 MB (4 MB for image data)
Image data stream processing	• Unpacking of 10-/12-/14-bit to 16-bit with selectable justification to LSb or MSb

General Purpose Inputs and Outputs

Number of lines	4 I/O lines: • 2 differential inputs (TRG) • 1 isolated output (STR) • 2 multimode inputs/outputs (A1, A2)
Usage	• Camera and image acquisition trigger • Light strobe trigger • Camera synchronization using motion encoder • General purpose IO

Electrical specifications	• A1, A2: Inputs or outputs, isolated up to 500 V: – Input: compatible with TTL or 12V signals – Output: TTL, open-collector or open-emitter • TRG: LVDS trigger input • STR: TTL strobe output
Filter control	• Glitch removal filter available on input lines used as trigger sources: • Configurable with five time constants: – 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	• 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	• Microsoft Windows 10, 8.1, 7 for x86 (32-bit) and x86-64 (64-bit) processor architectures • Linux for x86 (32-bit) and x86-64 (64-bit) processor architectures Refer to release notes for details
APIs	• MultiCam 32- and 64-bit binary libraries (Windows and Linux), for ISO-compliant C/C++ compilers

Environmental conditions

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

Certifications

Electromagnetic - EMC standards	• European Council EMC Directive 2004/108/EC
EMC - Emission	• EN 55022:2010 Class B
EMC - Immunity	• EN 55024:2010 Class B • EN 61000-4-2 • EN 61000-4-3 • EN 61000-4-4
KC Certification	Korean Radio Waves Act, Article 58-2, Clause 3
Flammability	PCB compliant with UL 94 V-0
RoHS	European Union Directive 2015/863 (ROHS3)
REACH	European Union Regulation 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	• 1191 - Grablink Value

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