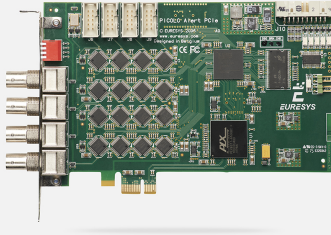


Piccolo Alert PCIe

표준 PAL/NTSC 카메라 최대 16대용 BNC 커넥터 4개 내장 PCIe 비디오 캡처 카드



둘러보기

- 브래킷 내장 4x BNC 커넥터, [1203] VEB 모듈(별매) 3개 장착 시 16x로 확장 가능
- PCIe x1 버스
- 공유 비디오 디코더 16개, 초당 이미지 100/120장(초당 200/240 필드)
- 카메라 4대에서 실시간 캡처, 카메라 최대 16대까지 신속하게 전환 가능
- 각 비디오 입력에 대해 독립적으로 프로그래밍 가능한 프레임 레이트 및 캡처 매개변수

장점

비디오 입력 구성

- 브래킷 내장 BNC 커넥터를 사용하여 카메라를 최대 4대까지 연결할 수 있습니다. 카메라 한 대마다 초당 30(NTSC) 프레임 또는 25(PAL) 프레임 캡처 가능
- 브래킷에 내장된 BNC 커넥터와 [1203] VEB 3개를 사용하여 카메라를 최대 16대까지 연결할 수 있습니다. 카메라 한 대마다 초당 7.5(NTSC) 프레임 또는 6.25(PAL) 프레임 캡처 가능

Windows 및 Linux 드라이버 제공

일반 제조산업용 머신 비전

- 검사 기계용으로 산업용 아날로그 카메라에서 저비용 이미지 캡처

생명 과학 및 의료

- 내시경 애플리케이션용 SD 및 HD 이미지 캡처
- 치과 애플리케이션용 SD 및 HD 이미지 캡처

현미경

- 오프라인 검사 스테이션용 HD 이미지 캡처
- 실험 및 측정 현미경용 HD 이미지 캡처

ITS(지능형 교통 시스템) 및 교통 관리

- 여러 카메라에서 비디오 캡처

Mechanical

Form Factor	PCI Express card
Format	Standard profile, half length, 1-lane PCI Express card
Dimensions	L 167.65 mm x H 106.65 mm L 6.6 in x H 4.38 in

Host bus

Standard	PCI Express 1.0
Link width	1 lane
Link speed	2.5 GT/s (PCIe 1.0)
DMA	32-bit
Peak delivery bandwidth	256 MB/s
Effective (sustained) delivery bandwidth	180 MB/s (Host PC motherboard dependent)
Power consumption	Max. 9.5 W (2.9 A @ +3.3 V)

Camera / video inputs

Interface standard(s)	NTSC-M, PAL-B/G, RS-170, CCIR
Connectors	<ul style="list-style-type: none"> • VIDEO 1 to VIDEO 4: BNC female connectors on the bracket for composite video inputs • VEB LINK 0 to VEB LINK 3: 10-pin shrouded header connectors on the PCB for VEB modules
Termination resistor	Selectable using switches on the bracket
Native resolution	Square pixels, broadcast and custom resolutions
Frame rate	<ul style="list-style-type: none"> • Up to 25/30 images per second, 50/60 fields per second per input • Total 100/120 images per second with up to 16 cameras
Number of cameras	16
Number of cameras (at full frame rate)	4
Line-scan cameras supported	No

Video delivery

Raw video format(s)	<ul style="list-style-type: none"> • Packed RGB color formats: RGB15, RGB16, RGB24, RGB32 • Planar RGB color formats: RGB24PL • Packed YUV color formats: YUV411, YUV422, YUV444 • Planar YUV color formats: YUV411PL, YUV422PL, YUV444PL, YUV411PL, YUV422PL • Monochrome formats: Y8
Deliverable video resolution (SD)	Frame, field, CIF, QCIF and custom image formats

Area-scan camera control

Trigger	<ul style="list-style-type: none"> • Hardware trigger for up to four cameras • With configurable noise removal filter and optional delay
Strobe	<ul style="list-style-type: none"> • Hardware strobe signal for up to four cameras • With programmable position and duration

General Purpose Inputs and Outputs

Number of lines	9 I/O lines: <ul style="list-style-type: none"> • 4 contact closure inputs (IN) • 5 solid-state relay outputs (OUT)
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Connectors	I/O: 20-pin dual-row 0.1" shrouded header on the PCB
Usage	General purpose IO
Electrical specifications	<ul style="list-style-type: none"> • IN: Polarity-free inputs, compatible with TTL, 12V and 24V signals, opto-couplers, relays and switches • OUT: Opto-isolated potential-free and polarity-free solid-state outputs, compatible with signals up to 30V, with 4 μs fall time, isolated up to 500V
Watchdog	Yes

Software

Host PC Operating System	<ul style="list-style-type: none"> • Microsoft Windows 10, 8.1, 8, 7 for x86 (32-bit) and x86-64 (64-bit) processor architectures • Linux, from kernel version 2.6 to 4.13, compatible with a wide range of distributions, for x86 (32-bit) and x86-64 (64-bit) processor architectures
APIs	<ul style="list-style-type: none"> • MultiCam 32- and 64-bit binary libraries (Windows and Linux), for ISO-compliant C/C++ compilers • DirectShow 32- and 64-bit filters (Windows only), for Microsoft Visual C++ compilers

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"> • European Council EMC Directive 2004/108/EC • United States FCC rule 47 CFR 15
EMC - Emission	<ul style="list-style-type: none"> • EN 55022:2010 Class B • FCC 47 Part 15 Class B
EMC - Immunity	<ul style="list-style-type: none"> • EN 55024:2010 Class B • EN 61000-4-2 • EN 61000-4-3 • EN 61000-4-5 • EN 61000-4-6
Flammability	PCB compliant with UL 94 V-0
RoHS	European Union Directive 2011/65/EU (ROHS2)
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	<ul style="list-style-type: none"> • 1641 - Picolo Alert PCIe
Optional accessories	1203 - VEB



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