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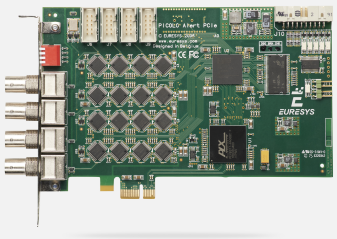
Picolo Alert PCIe

PCIe-Videoaufnahmekarte mit 4 BNC-Steckverbindern für bis zu 16 PAL/NTSC-Kameras



Im Überblick

- 4 BNC-Steckverbinder an der Halterung, erweiterbar auf 16 mit 3 [1203] VEB-Modulen (separat erhältlich)
- PCIe x1 Bus
- 16 gemeinsame Video-Decoder, 100/120 Bilder pro Sekunde (200/240 Halbbilder pro Sekunde)
- Echtzeiterfassung von 4 Kameras, schneller Wechsel zwischen bis zu 16 Kameras
- Unabhängig voneinander programmierbare Framerate und Erfassungsparameter für jeden Videoeingang

Vorteile

Videoeingangskonfigurationen

- An den BNC-Steckverbindern an der Halterung können 4 Kameras angeschlossen werden: Aufnahme mit 30 (NTSC) bzw. 25 (PAL) Frames pro Sekunde pro Kamera
- An den BNC-Steckverbindern an der Halterung und den 3 [1203] VEBs können 16 Kameras angeschlossen werden: Aufnahme mit 7,5 (NTSC) bzw. 6,25 (PAL) Frames pro Sekunde pro Kamera

Treiber für Windows und Linux verfügbar

BILDVERARBEITUNGSSYSTEME FÜR DIE ALLGEMEINEN FERTIGUNGSINDUSTRIEN

Günstige Bilderfassung von industriellen Analogkameras für Inspektionssysteme

Nutzen Sie mit den Karten der Domino- und Picolo-Serie die günstigsten auf dem Markt verfügbaren industriellen Kameras.

BIOWISSENSCHAFTEN UND MEDIZIN

Endoskopieanwendungen

Standard- und High-Definition-Bilderfassung

Dentalanwendungen
Videogestützte Chirurgieanwendungen

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MIKROSKOPIE

High-Definition-Bilderfassung

Offline-Prüfstationen

Labor- und Messmikroskope

ITS (INTELLIGENT TRANSPORTATION SYSTEM) UND VERKEHRSMANAGEMENT

Videoerfassung von mehreren Kameras

Spezifikationen

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	• 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	• 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)	• 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	• Hardware trigger for up to four cameras • With configurable noise removal filter and optional delay
Strobe	• 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: • 4 contact closure inputs (IN) • 5 solid-state relay outputs (OUT)
Connectors	I/O: 20-pin dual-row 0.1" shrouded header on the PCB
Usage	General purpose IO
Electrical specifications	• 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	• Microsoft Windows 10, 8.1, 8, 7 • Microsoft Windows Server 2012 R2, 2012, 2008 R2 • Linux, from kernel version 2.6 to 4.10, compatible with a wide range of distributions • 32- and 64-bit versions
APIs	• 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	• European Council EMC Directive 2004/108/EC • United States FCC rule 47 CFR 15
EMC - Emission	• EN 55022:2010 Class B • FCC 47 Part 15 Class B
EMC - Immunity	• 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	• 1641 - Picolo Alert PCIe
Optional accessories	1203 - VEB

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