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BASLER COAXPRESS 1.0 1.1 PCI EXPRESS FRAME GRABBER CARDS

A- & V-Series

2200000354
microEnable 5 marathon ACX-QP



- Power over CoaXPress
- DMA 1800 - up to 1800 MB/s, DMA3600 - up to 3.6 GB/s
- High performance image processing and acquisition
- Industrial multi-device, multi-camera support

PRODUCT DESCRIPTION

Basler CoaXPress 1.0/1.1 PCI Express Frame Grabber Cards are engineered for high-speed image acquisition in demanding machine vision applications.These frame grabbers support multiple CoaXPress cameras, offering data transfer rates up to 3.6 GB/s through DMA3600 technology.They feature Power over CoaXPress (PoCXP), enabling simultaneous data and power transmission over a single cable, which simplifies system integration and reduces cabling complexity.Certain models, such as the microEnable 5 marathon VCX-QP, include onboard image preprocessing capabilities optimized for deep learning applications, enhancing real-time image analysis and reducing the processing load on the host system.
In practical applications, these frame grabbers are ideal for industries requiring precise and rapid image processing, such as semiconductor inspection, medical imaging, and high-speed industrial automation.Their ability to handle large data volumes with low latency makes them suitable for tasks like defect detection, dimensional measurement, and object recognition.The robust PCIe x4 interface ensures reliable data transfer to the host PC, while the support for multiple camera configurations provides flexibility in system design.With their advanced features and high performance, Basler CoaXPress 1.0/1.1 PCI Express Frame Grabber Cards are a valuable component in sophisticated vision systems.

TECHNICAL DATA

Accessory type	Card
API configuration	.net interface, Framegrabber SDK
Approvals	CE, RoHS, FCC, UKCA
Camera interface	CoaXPress 1.0/1.1
Connector	DIN 1.0/2.3
Dimensions	167.64mm (L) x 111.15mm (H)
Fan	Yes
FPGA	No
Memory	1024 MByte DDR3-RAM
Number of ports	4
Operating temperature	0°C … +85°C
PC Bus Interface	PCI Express x4
Processor	Xilinx Kintex7 XC7K160T

Resolution max	8k (-65k)*65k (area scan sensor, depends on applet),65k (line scan sensors)
Storage temperature	-50°C … +80°C
User interface	CoaXPress
Weight	200 g