

General Information

Order Number	2200000702
Manufacturer	Basler
Type	PC Card (CXP-12)
Product Series	CXP-12 Interface Cards
Product Type	Acquisition
Warranty	36 Months

Device Features

Processor	Xilinx Ultrascale+ KU3P
On-Board Memory	1.5 GByte DDR4-RAM
Acquisition Card Features	<ul style="list-style-type: none">■ Flat Field Correction■ Digital Binning■ PGI Color Reconstruction

Camera Interface

Standard	CoaXPress 2.0/2.1
Interface	CoaXPress (CXP-12)

Configurations	CXP-12; up to 4 cameras
Connectors	4 x Micro-BNC/HD-BNC
Cable Length	11 - 40 meters
Camera Support	<ul style="list-style-type: none">■ area scan camera■ line scan camera
Sensor Type	<ul style="list-style-type: none">■ CFA sensor (Bayer)■ Grayscale sensor■ RGB sensor
Sensor Resolution	32k*64k (area scan sensor), 16k (line scan sensor)
Bit Depth	<ul style="list-style-type: none">■ 8-16-bit (grayscale)■ 24-48-bit (color)
Data Bandwidth	4 × 12.5 Gbit/s (1,560 MB/s)
Data Bandwidth (p.port; Total)	12.5 Gbps; 50 Gbps
No. of Ports	4

Host PC Interface

PC Bus Interface	PCIe 3.0 ×8
PC Bus Interface Performance	7876 MB/s (theoretical), 6520 MB/s (typical/max.)

Controls and General-Purpose I/Os

On-board Front GPIO Interface	3 differential input signals or 2 differential and 1 single-ended signal or 4 single-ended signals; 2 TTL output signals; configurable by software GPIOTool; max. voltage of the input signals between 4,5V and 25V
GPIO Interface Summary	4 in/2 out (max.), TTL or opto-coupled; differential or single-ended signals (configuration dependent)

Processing Features

Basic Features	<ul style="list-style-type: none">■ Image Selector■ Mirroring■ Overflow Management■ ROI■ Tap Geometry Sorting■ White Balance
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Physical and Environmental Information

Dimensions	PCIe Standard height, half length card: 167.64 mm length x 111.15 mm height
Weight	267 g
Power Consumption / Power Source	Typ. 13,4W@12V, excluding camera and I/O power output
Operating Temperature	0 - 50 °C (32 - 122 °F)

Storage Temperature	-50 - 80 °C (-58 °F - 176 °F)
Relative Humidity (operating, storage)	5 - 90 % non-condensing (operating), 0 - 95 % (storage)
MTBF	48.475 h

Software

Software Drivers	<ul style="list-style-type: none">Linux 64-BitWindows 11 / 10 (64-Bit)
Software Tools	<ul style="list-style-type: none">Device DriversDocumentationpylon Software Suite
Software API	<ul style="list-style-type: none">Framegrabber SDKGenTLpylon SDKs
MV Software Compatibility	<ul style="list-style-type: none">GenTL-based MV-Softwarepylon Software Suite

Manufacturer

Basler

Conformity

CE (incl. RoHS)

FCC

ISO 9001:2015

KC

REACH

UKCA

WEEE

Documentation

[More specifications can be found in the Documentation](#)