

General Information

Order Number	2200000701
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 GByte DDR4-RAM
Acquisition Card Features	- 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 2 cameras
Connectors	2 x Micro-BNC/HD-BNC
Cable Length	11 - 40 meters
Camera Support	■ area scan camera ■ line scan camera
Sensor Type	■ CFA sensor (Bayer) ■ Grayscale sensor ■ RGB sensor
Sensor Resolution	32k*64k (area scan sensor), 16k (line scan sensor)
Bit Depth	■ 8-16-bit (grayscale) ■ 24-48-bit (color)
Data Bandwidth	2 × 12.5 Gbit/s (1,560 MB/s)
Data Bandwidth (p.port; Total)	12.5 Gbps; 25 Gbps
No. of Ports	2

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	■ 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	266 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	2.137.243 h

Software

Software Drivers	- Linux 64-Bit - Windows 11 / 10 (64-Bit)
Software Tools	- Device Drivers - Documentation - pylon Software Suite
Software API	- Framegrabber SDK - GenTL - pylon SDKs
MV Software Compatibility	- GenTL-based MV-Software - pylon 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](#)