

General Information

Order Number	108095
Manufacturer	Basler
Type	Frame grabber
Product Series	ironman Frame Grabber
Product Type	Acquisition
Last Time Buy	31/12/2025
Last Time Service	31/12/2028

Device Features

Processor	Xilinx Virtex6 XC6VLX195T FPGA
On-Board Memory	1 GByte DDR3-RAM
I/O Module Interfaces (Trigger and Sync)	Trigger/GPIO-IF (Opto Trigger, TTL Trigger)
Power via Interface (p. port)	PoCL (4W/12V per cable, Safe Power)

Camera Interface

Standard	Camera Link 2.0
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Interface	Camera Link
Configurations	<ul style="list-style-type: none">■ CL-deca (80bit)■ CL-full■ Including non-Standard formats: Bilinear color
Connectors	2 x MDR26
Cable Length	0 - 10 meters
Power output	PoCL SafePower, 4W/12V per cable
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
Sensor Resolution	16k*64k (area scan sensor), 16k (line scan sensor)
Bit Depth	<ul style="list-style-type: none">■ 8-bit (grayscale)■ 24-bit (color, 8-bit per color component)
Data Bandwidth	1 × 6.8 Gbit/s (850 MB/s)
Data Bandwidth (p.port; Total)	6.8 Gbps; 6.8 Gbps (850 MB/s)
No. of Ports	2
Test Environment	Camera Simulator

Host PC Interface

PC Bus Interface

PCIe 2.1 ×8, DMA3600

PC Bus Interface Performance

up to 3600 MB/s (sustainable)

Controls and

General-Purpose I/Os

Trigger Board GPIO Interfaces

Box connector (34-pin)

On-board GPIO interface

One 34-pin flat cable connector onboard: 8 input signals and 8 output signals with open-drain optionally as 4 opto-coupled inputs (4,5V - 28V), optional 2 opto-coupled differential inputs (RS422); 4 opto-coupled outputs (4,5V - 28V)

GPIO Synchronisation and Control

Configurable Trigger System supporting several trigger modes (grabber controlled, external trigger, gated, software trigger) and shaft encoder functionality with backward compensation, Multi-Camera-Synchronization

GPIO Interface Summary

8 in/8 out (max.), TTL or opto-coupled; differential or single-ended signals (configuration dependent)

Processing Features

Basic Features

- Availability of image preprocessing depends on the individual applet
- Image Selector
- Invert
- LUT

- Offset/Gain/Gamma correction
- ROI
- Shading Correction
- Tap Sorting (Sensor Readout Correction)

Physical and Environmental Information

Dimensions	PCIe Standard height, half length card: 167.64 mm length x 111.15 mm height
Weight	240 g
Power Consumption / Power Source	14 V, 2.5 A
Operating Temperature	0 - 50 °C (32 - 122 °F)
Storage Temperature	-50 - 80 °C (-58 °F - 176 °F)
Relative Humidity (operating, storage)	5 - 90 %, relative, non-condensing
MTBF	on request
Compliances	<ul style="list-style-type: none">■ CE class A■ REACH■ RoHS■ WEEE

Software

Software Drivers

- Windows 10 / 8 / 7 (64-Bit)
- Windows 10 / 8 / 7 (32-Bit)
- Linux 32-Bit
- Linux 64-Bit

Software Tools

- Device Drivers
- Documentation
- GenICam Explorer (Camera configuration tool)
- microDiagnostics (Analysis and service tool)
- microDisplay (Acquisition control and viewer)
- SDK

Software API

- .net interface
- Framegrabber SDK

FPGA Programming

not programmable

MV Software Compatibility

- Halcon
- VisionPro

Manufacturer

Basler

