General Information

Order Number	2200000360
Manufacturer	Basler
Type	Frame grabber
Product Series	marathon Frame Grabber
Product Type	Processing
Warranty	36 Months

Device Features

Processor	Vision Processor
On-Board Memory	2 GByte DDR3-RAM
Power via Interface (p. port)	PoCL (4W/12V per cable, Safe Power)
Acquisition Card Features	VisualApplets compatible

Camera Interface

Standard	Camera Link 2.0
Interface	Camera Link
Configurations	▪ CL-base

	▪ CL-deca (80bit) ▪ CL-dual base ▪ CL-full ▪ CL-medium
Connectors	2 x SDR/HDR26 (miniCL)
Sensor Type	▪ CFA sensor (Bayer) ▪ Grayscale sensor ▪ RGB sensor
Bit Depth	▪ 8-16-bit (grayscale) ▪ 24-48-bit (color)
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 ×4, DMA1800
PC Bus Interface Performance	up to 1800 MB/s (sustainable)

Controls and General-Purpose I/Os

On-board GPIO interface	▪ 4 opto-coupled outputs (4,5V - 28V) ▪ One 34-pin flat cable connector onboard: 4 opto-coupled inputs (4,5V - 28V), optional 2 opto-coupled differential inputs (RS422) ▪ Shaft encoder input, programmable rescaler, multiple-camera synchronization
On-board Front GPIO Interface	▪ 2 TTL outputs, up to 20 MHz frequency ▪ One 15-pin D-Sub socket: 2 opto-coupled differential inputs (RS422) and 1 opto-coupled differential / single ended input ▪ optional (conf.): 4 opto-coupled Inputs (4,5V - 28V) with up to 1 MHz frequency
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	▪ 4 in/2 out (max.), TTL or opto-coupled; differential or single-ended signals (configuration dependent) ▪ 8 in/8 out (max.), TTL or opto-coupled; differential or single-ended signals (configuration dependent)

Processing Features

Basic Features	▪ Image Selector ▪ Invert

	▪ LUT ▪ Mirroring ▪ Offset/Gain/Gamma correction ▪ ROI ▪ 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	165 g
Power Consumption / Power Source	12 V, 1.4 A (actual values depend on processing)
Operating Temperature	50° (0 LFM*), 60° (100 LFM*) FPGA operating temperature: 0°C to 85°C, * LFM = Linear Feet per Minute, unit for measuring airflow velocity
Storage Temperature	-50 - 80 °C (-58 °F - 176 °F)
Relative Humidity (operating, storage)	5 - 90 % non-condensing (operating), 0 - 95 % (storage)
MTBF	pending

Software

Software Drivers	▪ Windows 11 / 10 (64-Bit) ▪ Windows 11 / 10 (32-Bit)

	▪ Linux 64-Bit
Software Tools	▪ Device Drivers ▪ Documentation ▪ microDisplay (Acquisition control and viewer) ▪ SDK
Software API	.net interface
FPGA Programming	VisualApplets
MV Software Compatibility	▪ Cognex ▪ Halcon ▪ others on request

Manufacturer

Basler

Conformity

CE (incl. RoHS) FCC UKCA

Documentation

More specifications can be found in the Documentation