

Frame Grabber With CoaXPress Interface



2023 V1 For customized projects please Contact us: sales@simtrum.cn



Frame Grabber With CoaXPress Interface

Our frame grabbers with CoaXPress interface differ in onboard memory,topology model, image interface, protocol suppored and other parameters. Please check the details and find the one you need.

Feature

- Support CoaXPress camera power, controlling and triggering
- Monochrome, bayer, color cameras supporting line scan and area scan
- Compatible with GenCam standard and GenTL standard
- Support Windows 10/7(64-Bit/32-Bit), Linux 64-Bit, Mac OS
- SDK development library supporting C,C++,C#
- GUI configuration tool
- Flexible IO:2 photoelectric solation input, 1 shaft encoder input, 2 photoelectric isolation output
- Fan speed automatically adjusts based on FPGA temperature for optimized thermal and noise performance

Frame Grabber Type ST-CXP6

- PCle Gen3x4
- Support 1-4 channel CXP topological connection
- Compliant with CoaXPress1.1/1.1.1
- Support four-channel PoCXP, single-channel 24V/13W
- Support 1.25/2.5/3.125/5/6.25G high-speed link
- Onboard 2GB image cache
- Speed up to 25Gbps,each link up to 6.25Gbps
- DIN 1.0/2.3 interface and 4-way three-color LED status indicator



ST-CXP6



ST-CXP6-8

- PCle Gen3x8
- Support Two groups of 1-4 CXP arbitrary topology connections
- Compliant with CoaXPress 1.1/1.1.1
- Support eight-channel PoCXP, single-channel 24V/13W
- Support 1.25/2.5/3.125/5/6.25G high-speed link
- Onboard 4GB image cache
- Speed up to 50Gbps,each link up to 6.25Gbps
- DIN1.0/2.3 interface and 8-way three-color LED status indicator



ST-CXP6-8

ST-CXP12

- PCle Gen3x8
- Support 1-4 channel CXP topological connection
- Compliant with CoaXPress 2.0/2.1
- Support four-channel PoCXP, single-channel 24V/13W
- Support 1.25/2.5/3.125/5/6.25/10/12.5G high-speed link
- Onboard 4GB image cache
- Speeds up to 50Gbps,each link up to 12.5Gbps
- Micro BNC interface and 4-way
 three-color LED status indicator



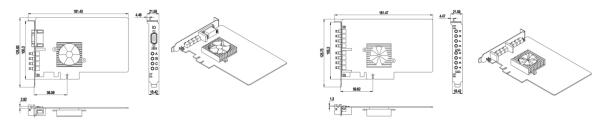
ST-CXP12

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Specifications

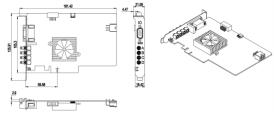
| Model | ST-CXP6 | ST-CXP6-8 | ST-CXP12 |
|--------------------------------|---|---|---|
| Bit Depth | 8/10/12/14/16 bit | | |
| Image Mode | Mono/Bayer/RGB/RGBA | | |
| Onboard Memory | 2 GB | 4 GB | 4 GB |
| Topology Model | Support 1-4 channel CXP topological connection | Two groups of 1-4 CoaXPress arbirary topology connections | Support 1-4 channel CXP topological connection |
| Image Interface | 4 channels DIN 1.0/2.3 CoaXPress with PoCXP | 8 channels DIN 1.0/2.3 CoaXPress with PoCXP | 4-channels Micro BNC CoaXPress with PoCXP |
| Transfer Rates | (1.25/2.5/3.125/5/6.25G)x4 | (1.25/2.5/3.125/5/6.25G)x8 | (1.25/2.5/3.125/5/6.25/10/12.5G)x4 |
| Protocol Suppored | CoaXPress1.1/1.1.1;GenlCam;GenTL | CoaXPress1.1/1.1.1;GenlCam;GenTL | CoaXPress 2.0/2.1; GenCam; GenTL |
| Acquisitio Speed | 19.4 Gbps(max) | 38.8 Gbps(max) | 38 Gbps(max) |
| PCIE Speed | PCle 3.0x4 | PCIe 3.0x8 | PCle 3.0x8 |
| PCIE Effective Payload Size | 128/256bytes | 128/256 bytes | 128/256 bytes |
| Bus Bandwidth | 3450 MB/s | 6800MB/s | 6800 MB/s |
| Maximum Camera Number | 4 PCS | 8 PCS | 4 PCS |
| Scan Mode | Line scan /Area scan | | |
| Trigger Input | Support 2 signals imputs(photoelectric isolation);Maximum frequency 30kHz;Level standard supports 3.3-24V | Support 2 signals inputs(photoelectric isolaton);Maximum frequency 100kHz;Level standard supports 3.3-24V | Support 2 signals imputs(photoelectric isolation);Maximum frequency 100kHz;Level standard supports 3.3-24V |
| Encoder Input | Support 1 orthogonal AB phase input (photoelectric isolation); Maximum frequency 1MHz;TTL and differential input(1-24V) | Support 1 orthogonal AB phase input(photoelectric isolation);Maximum frequency 1MHz;TTL and differential input(1-24V) | Support 1 orthogonal AB phase input (photoeectric isolation); Maximum frequency IMHz;Level standard Support 1-24V |
| Flash Control | Support 2 signals output (photoelectric isolation);Maximum frequency 30kHz | Support 2 signals output (photoelectric isolation);Maximum frequency 100kHz | Support 2 signals output (photoelectric isoation); Maximum frequency 100kHz |
| Cooling Method | Fan cooling | | |
| Operating Temperature | 0-55°C | | |
| Memory Management | Circular buffering supported: Accumulate frame/line to single buffer: DMA buffer is directly filed into system memory | | |
| System Requirements | 0 11 | Operating System: Windows 10/7(64-Bit/32-Bit),Linux 64- Bit, Mac OS;Hardware: PCle 3.0x8 Slot | , , , |
| GUI | Multi-camera display and configuration; Support image saving and loading | | |

Drawings



ST-CXP6

ST-CXP6-8



ST-CXP12



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