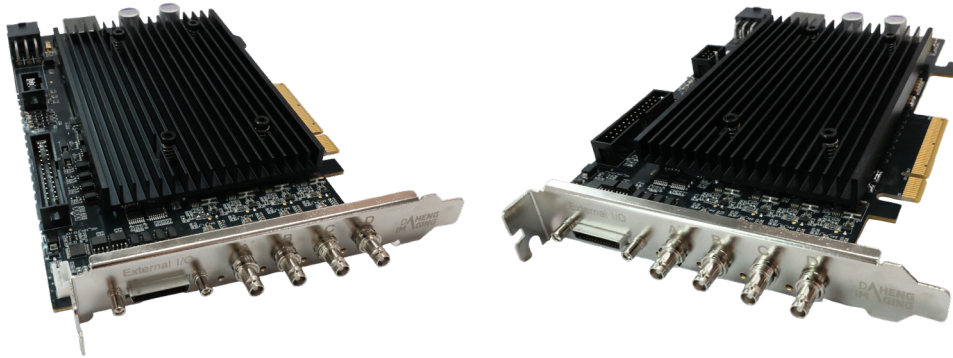


POLS-C12-4T-G38 (L)

POLARIS Quad Channel CoaXPress Frame Grabber



POLS-C12-4T-G38 (L) is based on the industry standard PCIe Gen3 bus and CoaXPress2.0 protocol, which can realize high-speed image acquisition and data transmission. POLS-C12-4T-G38 (L) can acquire images at a speed of 12.5Gbps per channel (up to 4 channels) and transfer the images to host memory through the PCIe×8 slot.

Applications

Suitable for machine vision applications such as industrial inspection, medical, scientific research, education and so on.

Features

- PCIe Gen3×8 bus: 6700 MB/s bus bandwidth
- The transmission speed is up to 12.5Gbps per channel (CXP-12)
- Rich I/Os
- Convert Bayer to RGB
- Red-Blue conversion
- Power over CoaXPress
- Encoder control, Timer
- The CoaXPress interfaces of frame grabber and the interfaces of camera can be connected out of order

Specifications

Model	POLS-C12-4T-G38	POLS-C12-4T-G38 L
Memory		
Memory	4GB DDR4 SDRAM	2GB DDR4 SDRAM
Payload Size	<512MB	<256MB
Host Interface		
Bus	PCIe Gen3 × 8	
Bus Performance	6700 MB/s	
Camera Interface		
CXP Protocol	CoaXPress 1.0/2.0	
Cable Connectors	HD-BNC 75Ω	
Supported Cameras	4	
Channel Indicator Light	4 dual color LEDs, each channel equipped with 1 indicator light	
PoC Power Output	13 W @ 24 VDC × 4	
Maximum Aggregate Bandwidth	12.5 Gbps × 4	
Download Speed	1.25/2.5/3.125/6/10/12.5 Gbps (CXP-1/2/3/5/6/10/12)	
Upload Speed	Low-speed 20.83 Mbps (CXP-1 ~ CXP-6); Low-speed 41.6 Mbps (CXP-10, CXP-12)	
Maximum Flow Packet Size	16 KB	
Pixel Format	Mono8/10/12/14/16; Bayer**8/10/12/14/16; RGB8 (**=GR, RG, GB, BG)	
Data Transmission Method	Taps: 1X-1Y, 1X-2YE	
Number of Encoder	2	
Number of Timer	4	
User-defined Output	24 (UserOutput0~19, UserOutputTL0~3)	
Mechanical		
Cooling	Heatsink	
Mounting	PCIe Gen3 × 8 or above slot	
Dimensions	181(W) × 21.6(H) × 126.3(L) mm	
Operating Temp.	0° C ~ +50° C	
Storage Temp.	-20° C ~ +70° C	
Operating/Storage Humidity	Up to 95% non-condensing	
I/O		
Onboard I/O	4 input with opto-isolated, 2 TTL input/output, 2 differential input, 2 output with opto-isolated	
Extend I/O	4 input with opto-isolated, 2 TTL input/output, 2 differential input, 2 output with opto-isolated	
Connector	Onboard I/O: DH60-27P. The matching plug model is DH40-27S Extend I/O: 26-pin 2-row 0.05" pitch pin header with shrouding. Model: 430225026S11B0	

