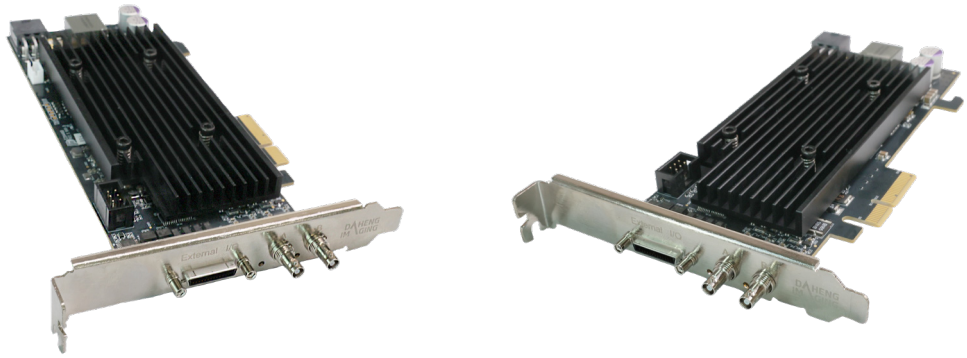
POLS-C12-2T-G38

POLARIS Dual Channel CoaXPress Frame Grabber



POLS-C12-2T-G38 is based on the industry standard PCIe Gen3 bus and CoaXPress2.0 protocol, which can realize high-speed image acquisition and data transmission. POLS-C12-2T-G38 can acquire images at a speed of 12.5Gbps per channel (up to 2 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

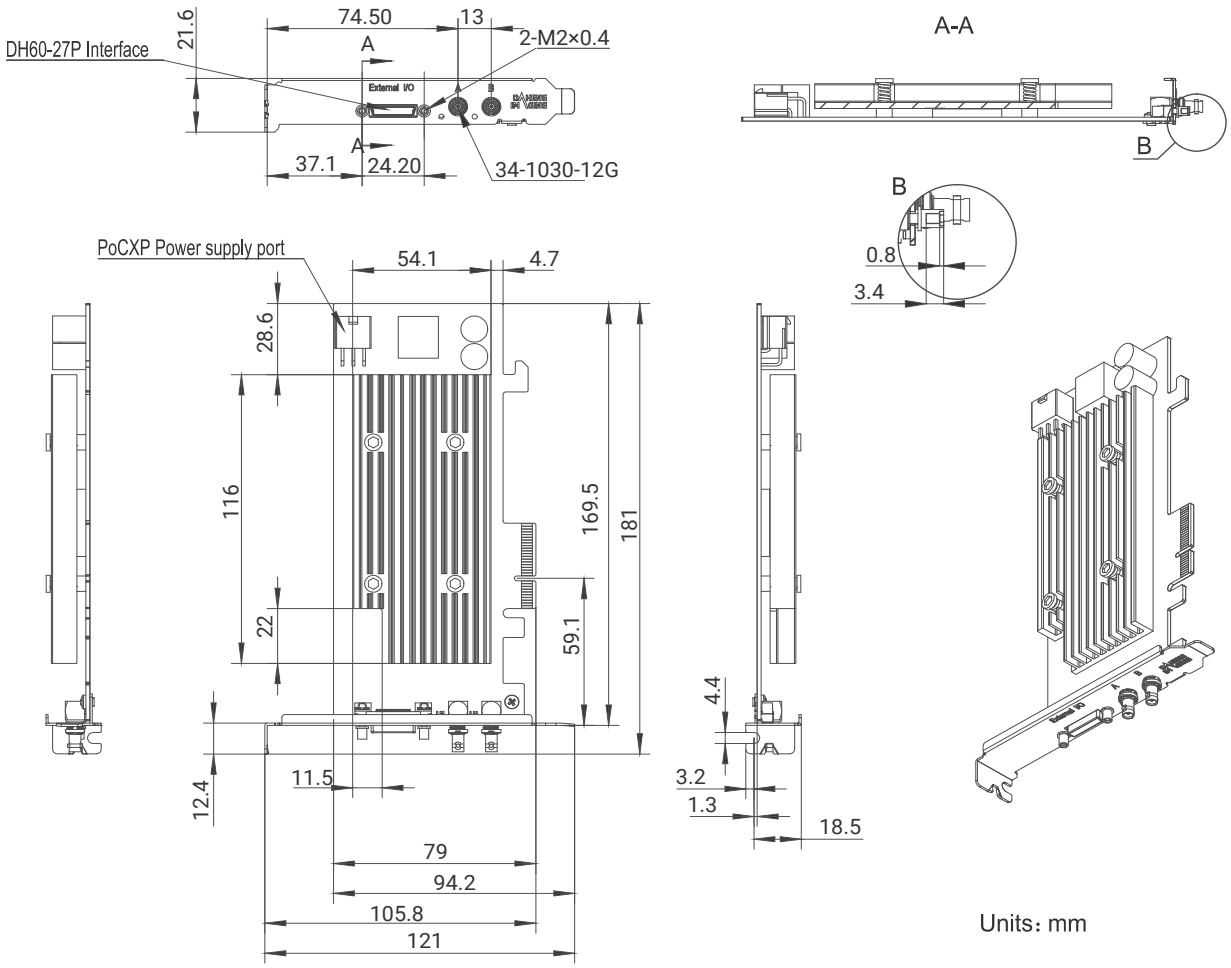
- PCIe Gen3×8 bus: 6700 MB/s bus bandwidth
- The transmission speed is up to 12.5Gbps per channel (CXP-12)
- Rich I/Os
- Convert Bayer to RGB
- Red-Blue conversion
- Power over CoaXPress
- Encoder control, Timer

Specifications

Model	POLS-C12-2T-G38
Memory	
Memory	1GB DDR4 SDRAM
Payload Size	<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	2
Channel Indicator Light	2 dual color LEDs, each channel equipped with 1 indicator light
PoC Power Output	13 W @ 24 VDC × 2
Maximum Aggregate Bandwidth	12.5 Gbps × 2
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	1
Number of Timer	2
User-defined Output	12 (UserOutput0~9, UserOutputTL0~1)
Mechanical	
Cooling	Heatsink
Mounting	PCIe Gen3 × 8 or above slot
Dimensions	181mm × 21.6mm × 121mm
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 intput with opto-isolated, 2 TTL input/output, 2 differential input, 2 output with opto-isolated
Extend I/O	-
Connector	Onboard I/O: DH60-27P. The matching plug model is DH40-27S Extend I/O: -

Electrical	
Typical Power	10.3 W (excluding power consumption of PoCXP, camera and onboard I/O power)
PoCXP	12 VDC, 6-pin power plug
Others	
SDK	GalaxyView 2.0 or above
OS	Win7/10/11, 64bit system is recommended
Conformity	CE, RoHS, FCC, WEEE, CoaXPress®, GenICam®

Technical Drawing



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