

CoaXPress CXP12 Series

1- to 4-Port PCI Express CXP12 Frame Grabber



Features

- Half-size, low profile PCI Express x8
- CoaXPress 1.0/1.1/2.0 compliant with data rates up to 12.5 Gb/s
- Supports CXP1, CXP3, CXP6, CXP12 cameras, Micro BNC connector
- Front-access D-Sub Interface for easy integration and maintenance
- PoCXP (Power over CXP), up to 13 watts with SafePower
- Acquires variable length frames from line scan cameras
- Triggers and encoders for external control of acquisition
- Opto-isolated design ensures stable operation in harsh industrial conditions
- Supports Windows and Linux OS

Description

The Claxon series offers support for triggers, encoders and DI/O connections, enabling synchronization with external devices. These frame grabbers incorporate cutting edge Direct Memory Access (DMA) technology, which allows for sequential and ring buffer operations, as well as GPU direct integration. This advanced technology significantly reduces the CPU workload and enhances the reliability of high-performance, robust industrial vision applications.

Specifications

Camera Interface	Compatibility	CXP-1, CXP-3, CXP-6 and CXP-12
	Speed	1/3/6/12 Gbps
	Connector	Micro BNC
	Bus Interface	PCIe x8 Gen3: Claxon-CXP4
Processor and Software Support Package	Processor Architecture	x86, ARM64
	Operating System	Windows 10 and 11 (x86 only), Linux (x86 and ARM) SDK C, C++, C#, Python
Power Requirements	Input Voltage	12 V _{DC} direct from PCIe slot, or AT/ATX system power input
	Overload Current Protection	present
	Connection	AT/ATX Power Jack
	Power over CXP	up to 13W, 24 V _{DC} each CXP link (total max. 52W with AT/ATX system power input)
Environment	Operating Temperature	0 ~ 60°C (32 ~ 140°F)
	Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
	Operating Humidity	95%RH@40°C(104°F), non-condensing
Mechanics	Dimensions (W x D)	174 x 106 mm
Certification	Compliance	FCC CE Class A

Ordering Information

Part Number	Description
PCIE-1164-BE	PCIe Quad Channel CXP-12 Frame Grabber