

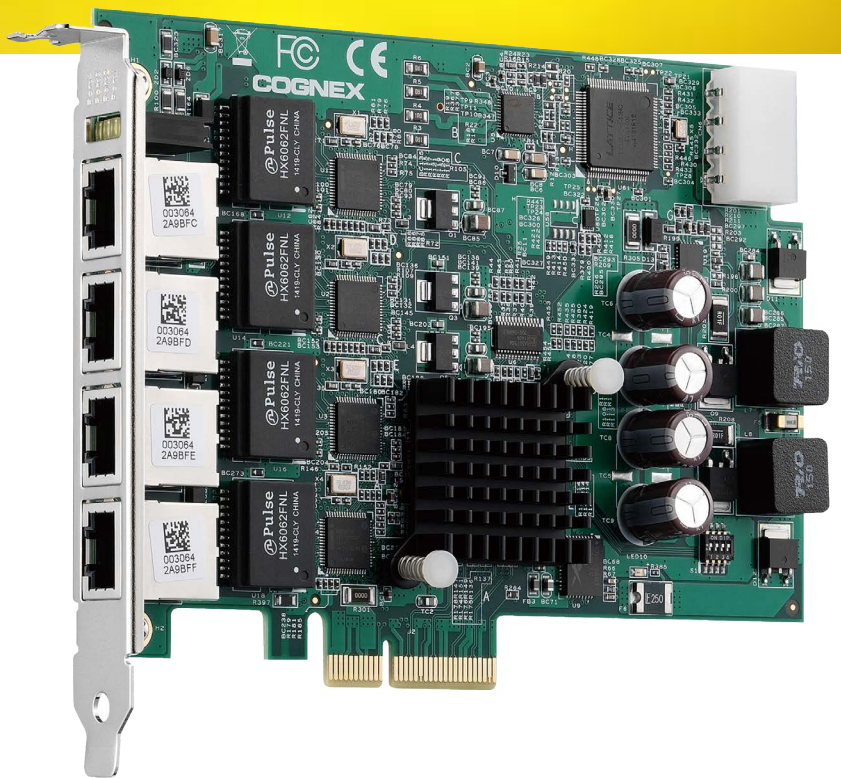
CFG-8704e

4-CH PCI Express® GigE PoE Frame Grabber

The CFG-8704e is designed to work with Cognex Designer™ Vision Software and VisionPro® Software. It can also be used as a stand-alone GigE interface card making it ideally suited to meet many machine vision application requirements.

The Cognex CFG-8704e frame grabber is a PCI Express® x4 lane, GigE, PoE (Power over Ethernet) frame grabber/network interface card which supports four independent Gigabit Ethernet ports for multiple GigE Vision device connections.

- Trusted Cognex Brand
- Designed for Cognex Designer Vision Software and VisionPro Software
- PCI Express x4 compliant
- 4 independent GigE Vision Ethernet ports with Power over Ethernet
- Jumbo frames
- Support for IEEE 802.3af for PoE
- Security device for Cognex software license



Software Development Environments

Cognex Designer makes it faster to build complete vision applications and allows developers to more easily take full advantage of the powerful VisionPro tool library. A graphical, flow-chart-based programming environment results in a diagrammatic representation that allows for faster development cycles and easier application maintenance and support.

VisionPro Machine Vision Software is a suite of Cognex® software tools for the Microsoft® Visual Studio® .NET programming environment. VisionPro combines the power and flexibility of advanced programming with the ease of development using the integrated QuickBuild fast prototyping environment.

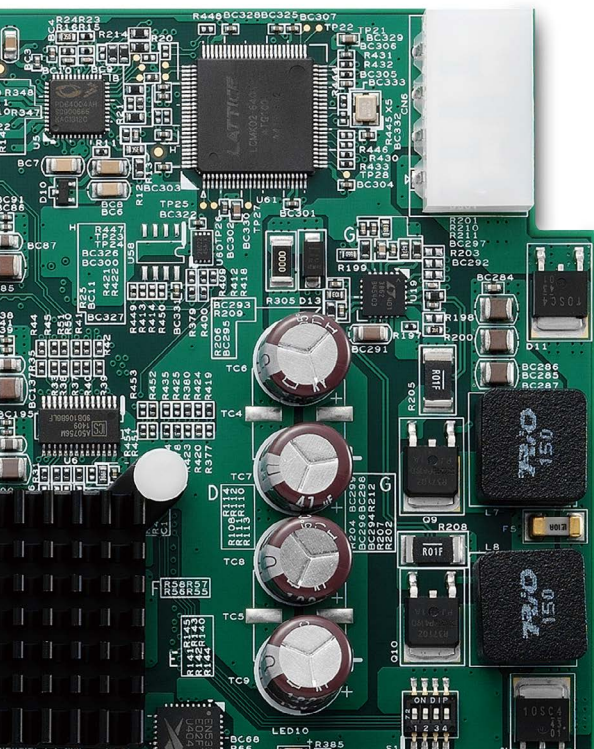
Simplified Installation and Lower costs

The CFG-8704e not only supports Power over Ethernet (PoE), combining power and signal supply into a single cable but also enables simultaneous multi-camera acquisition and data transfer rates of up to 1000Mb/s. This PoE solution simplifies system installation and lowers maintenance costs.

Extensible architecture allows the CFG-8704e to maintain support for existing cameras while easily adding new ones. From legacy cameras to the latest high-speed, color, GigE technology, the CFG-8704e meets many application requirements.

Smart PoE Function

The CFG-8704e provides auto-detection to ensure compatibility with both PoE and conventional non-PoE devices. The camera power is automatically on when the PoE connection is established. With the smart PoE function in the CFG-8704e, users can program power status easily, delivering significant energy efficiency, especially when cameras are idle.

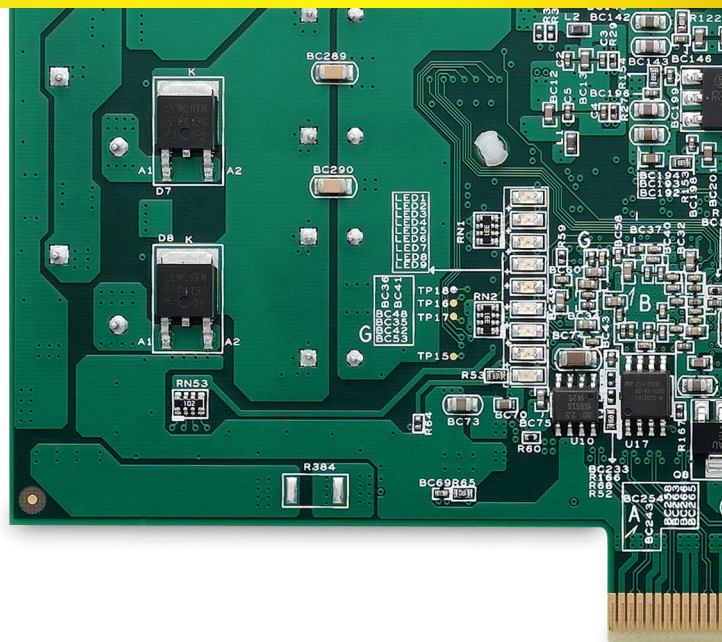


Features

PCI Express x4 compliant	Up to 24 W PoE power supply from PCIe bus
Support for 4 independent Gigabit Ethernet ports	Up to 24 W PoE power supply from PCIe bus
Support for smart PoE function, enabling easy power status programming	Support for link aggregation/jumbo frames (9 KByte)
LED indicating connectivity status	Acts as a security device for Cognex software license

Specifications

Dimensions	145 wide x 111.12 length (mm); 5.71 x 4.38 (in)
Operating Temperature	0°C to 55°C
Storage	-40°C to 85°C
Input voltage	3.3 VDC and 12 VDC (w/PC system power)
Input from power connector	Max 7 A @ 12 VDC (supporting up to 4 ports at 15.4 W per PoE port)
Input from PCIe slot	Max 2.1 A @ 12 VDC (compatible to PCIe spec), with connection cut off by fuse when exceeded
Max Output Power	Max Output Power
PoE Output Voltage	44 to 48 V, PoE port positive voltage feed



GigE Vision

LAN chip	Intel® 82574L, PCIe v1.1 (2.5GT/s)
GigE Vision Ports	4

PCI Express

PCIe X4 ports	1 port PCIe X4, for GigE Vision
Differential Output Peak to Peak Voltage	+0.8 V to +1.2 V
Differential Input Peak to Peak Voltage	+0.175 V to +1.2 V
Input voltage for PERST#, WAKE#, and SMBus	-0.75 V to +4.05 V

Cognex Designer makes it faster to build complete vision applications and allows developers to more easily take full advantage of the powerful VisionPro® tool library. Learn more at www.cognex.com/products/machine-vision/cognex-designer-vision-software

VisionPro® software provides a complete, powerful vision tool library for the most challenging machine vision applications. Learn more at www.cognex.com/visionpro

Ordering Information:

CFG-8704E-000	- card only, no software
CFG-8704E-100	- with VPro Plus and Cognex Designer
CFG-8704E-200	- with VPro Max and Cognex Designer

COGNEX

Companies around the world rely on Cognex vision and ID to optimize quality, drive down costs and control traceability.

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