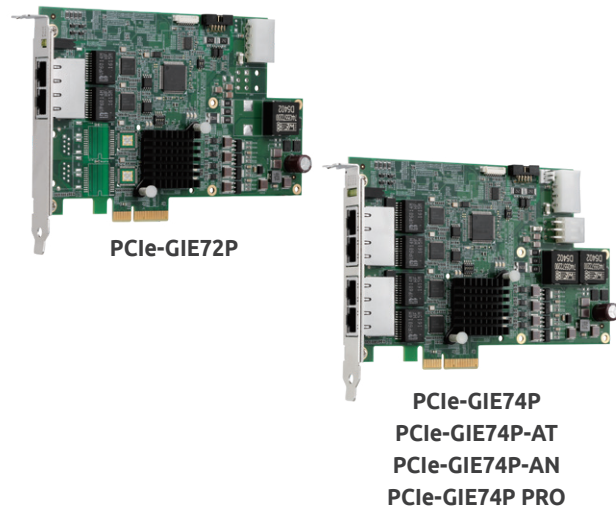


# PCIe-GIE7xP Series

*2/4-CH PCI Express® GigE Vision PoE+ Frame Grabbers with PoE Protection, Power Management and ToE*

## Features

- PCI Express® x4 compliant
- Support for 2/4 independent Gigabit Ethernet ports
- IEEE 802.3at for PoE+ (Power over Ethernet Plus)
- PoE protection and automated power budget control for enhanced asset protection
- Easy-to-use utility and API provided for PoE power management
- Multiple cards, multiple cameras, in a single system
- Wide operating temperature range from 0°C to +70°C, supporting non-drop frame capture in extreme environments
- Up to 20/60/120W PoE power from PCIe bus/4-pin/6-pin Molex connector
- Powered Device (PD) auto detection and classification
- IEEE 1588 (PTP technology, hardware only)
- Firmware-based Trigger over Ethernet with Action Command (PCIe-GIE74P PRO only)



## Introduction

ADLINK's PCIe-GIE7xP series PCI Express® PoE+ frame grabber supports 2/4-CH independent Gigabit Ethernet ports for multiple GigE Vision connections transferring up to 1 Gb/s per port. PoE+ provides up to 30W power and automatic detection for stable, reliable connections, reducing costs, simplifying installation, and easing maintenance burdens.

### Multi-card Capture Capability

Any number of PCIe-GIE7xP series cards can be installed in a single system without occupying any I/O resources, for multicard single-system machine vision grabs. A wide operating temperature range supports integration with fanless computers for Industrial Automation applications in harsh environments.

### Comprehensive PoE Protection Secures Assets

Exclusive comprehensive PoE Protection prevents overcurrent and overvoltage, and automated power budget control adjusts PoE port power supply automatically, avoiding equipment damage.

### Smart PoE Management

Easy-to-use utility and API provide real-time PoE status monitoring and control, lowering maintenance costs and predicting possible failure in advance, while PoE power priority selection and PoE-based power on/off support more demanding applications.

### ToE (Trigger Over Ethernet)

Integrated Advanced FPGA-based Trigger over Ethernet synchronizing multi-camera acquisitions significantly reduces ownership costs.

## Software Support

- **OS Information**  
Windows® 7/8.1/10/11  
Linux Ubuntu 12.04 LTS (Linux kernel newer than 3.13)
- **Software Compatibility**  
C#/VB.NET/VC++

## Ordering Information

- **2-ch PCI Express®**
  - **PCIe-GIE72P (operating temperature: 0-70°C)**  
Power over Ethernet Plus frame grabber with PoE power management
- **4-ch PCI Express®**
  - **PCIe-GIE74P (operating temperature: 0-70°C)**  
Power over Ethernet Plus frame grabber with PoE power management
  - **PCIe-GIE74P-AT (operation temperature: 0-60°C)**  
Power over Ethernet Plus frame grabber with PoE power management
  - **PCIe-GIE74P-AN (operating temperature: 0-60°C)**  
Power over Ethernet Plus frame grabber
  - **PCIe-GIE74P PRO (operating temperature: 0-70°C)**  
Power over Ethernet Plus frame grabber with ToE and PoE power management

## Specifications

Model Name	PCIe-GIE72P	PCIe-GIE74P	PCIe-GIE74P PRO	PCIe-GIE74P-AT	PCIe-GIE74P-AN
Form Factor	PCI Express® x4				
Ethernet Port	2 fully-integrated Gigabit Ethernet Media Access Control (MAC) and physical layer (PHY) ports.	4 fully-integrated Gigabit Ethernet Media Access Control (MAC) and physical layer (PHY) ports.			
	PoE+ (Power over Ethernet Plus), IEEE 802.3at compliant, supporting 0, 1, 2, 3, and 4, up to 30W				
	9 kB jumbo frame support				
Functions	PoE Power Management				-
	Link Aggregation, IEEE 1588 (PTP technology)				
	Multiple cards and multiple cameras				
	PoE Protection (Overcurrent, Overvoltage, Short Protection)				
	Over Temperature Protection				-
	-	Hardware Trigger over Ethernet with Action Command		-	
Operating Environment	60W PoE: 0°C to +70°C (32°F to 150°F)			60W PoE: 0°C to +60°C (32°F to 140°F)	
	120W PoE: 0°C to +40°C (32°F to 104°F) <sup>(2)</sup>				
	Humidity: 5% to 90% RHNC				
Power Requirements	+3.3V max @ 2.5A <sup>(1)(3)</sup>	+3.3V max @ 3A <sup>(1)(2)(3)</sup>			
Dimensions	167.6 mm x 106.6 mm (6.6" x 4.2") (W x L)				

**Note:**

(1) Max 61.6W PoE power w/ 4-pin (+12V@6A) Molex connector.

(2) Max 120W PoE power w/ both 4-pin (+12V@6A) and 6-pin (+12V@6A) Molex connector. (PCIe-GIE74P PRO only)

(3) Max 20W PoE power w/ PCIe slot (+12V@2.1A).