

PCIe-GIE7xP Series

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

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-GIE72P/GIE74P PRO only)
- Software License Protection (PCIe-GIE72P/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 multiscard 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

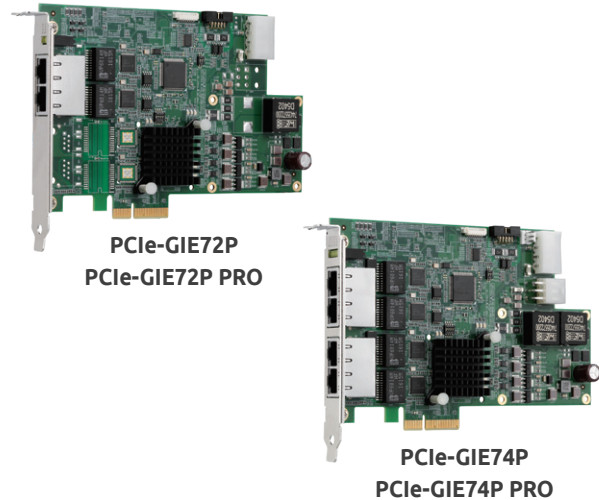
Exclusive comprehensive PoE Protection prevents overcurrent and overvoltage, and automated power budget control adjusts PoE port power supply automatically, avoiding equipment damage.

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.

License Protection & ToE (Trigger Over Ethernet)

Integrated software License Protection and advanced FPGA-based Trigger over Ethernet synchronizing multi-camera acquisitions significantly reduce ownership costs.



Software Support

- **OS Information**
Windows® 7/8.1/10
- **Software Compatibility**
C#/VB.NET/VC++

Ordering Information

- **PCIe-GIE72P**
2-ch PCI Express® Power over Ethernet Plus frame grabber
- **PCIe-GIE74P**
4-ch PCI Express® Power over Ethernet Plus frame grabber
- **PCIe-GIE72P PRO**
2-ch PCI Express® Power over Ethernet Plus frame grabber with ToE and Software License Protection
- **PCIe-GIE74P PRO**
4-ch PCI Express® Power over Ethernet Plus frame grabber with ToE and Software License Protection

Specifications

Model Name	PCIe-GIE74P / PCIe-GIE74P PRO	PCIe-GIE72P / PCIe-GIE72P PRO
Form Factor	PCI Express® x4	
Ethernet Port	4 fully-integrated Gigabit Ethernet Media Access Control (MAC) and physical layer (PHY) ports.	2 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	
	PoE Power Management	
	Hardware Trigger over Ethernet with Action Command (PRO only)	
	Software License Protection (PRO only)	
Operating Environment	60W PoE: 0°C to +70°C (32°F to 150°F) 120W PoE: 0°C to +40°C (32°F to 104°F) ⁽²⁾	
	Humidity: 5% to 90% RHNC	
Power Requirements	+3.3V max @ 3A ⁽¹⁾⁽²⁾⁽³⁾	+3.3V max @ 2.5A ⁽¹⁾⁽³⁾
Dimensions	167.6 mm x 106.6 mm (6.6" x 4.2") (W x L)	167.6 mm x 106.6 mm (6.6" x 4.2") (W x L)

Note:

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