

PCIe-GIE62

2-CH Gigabit Ethernet Vision (GigE Vision) interface card with Trigger, and I/O•



Features

- Supports two independent GbE ports
- Supports jumbo frames (9 KByte)
- PCI Express x4 compliant
- Provides Industrial screw lock connector
- 2 isolation digital inputs/outputs
- 2 isolation TTL level programmable trigger output pulses
- Supports windows XP/XP embedded/Vista

Introduction

ADLINK PCIe-GIE62 is a PCI Express x4 lane, Gigabit Ethernet (GbE) network interface card (NIC), which supports 2 independent Gigabit Ethernet ports for multiple GigE Vision device connections with data transfer rates up to 1000 Mb/s, like most of the GigE Vision cameras. The PCIe-GIE62 provides two isolated digital inputs and outputs for connecting to external devices such as position sensors. The PCIe-GIE62 also includes two isolated programmable Trigger output pulses to manage trigger events such as activating a strobe lighting.

Specifications

Ethernet Port

Two full-integrated Gigabit Ethernet Media Access Control (MAC) and physical layer (PHY) ports.

Gigabit Ethernet Controller provides a standard IEEE 802.3 Ethernet interface for 1000BASE-T, 100BASE-TX, and 10BASE-T applications (802.3, 802.3u, and 802.3ab). 9 kB jumbo frame support.

I/O trigger Function

- 2 Isolated Digital Input
- 2 Isolated Digital Output
- 2 Isolated trigger Input
- 2 Isolated trigger Output

Isolated Voltage

Rated Isolation Voltage 1000V @ 60 seconds

Form Factor

X4 PCI-express interface

Dimensions

W x L: 129.5 x 111.15 mm

Operating Environment

Temperature: 0 to 55°C

Humidity: 5 to 90% RHNC

Power Requirements

PCIe-GIE62: +12 V max @ 0.2 A, +3.3 V max @ 1.5 A

Ordering Information

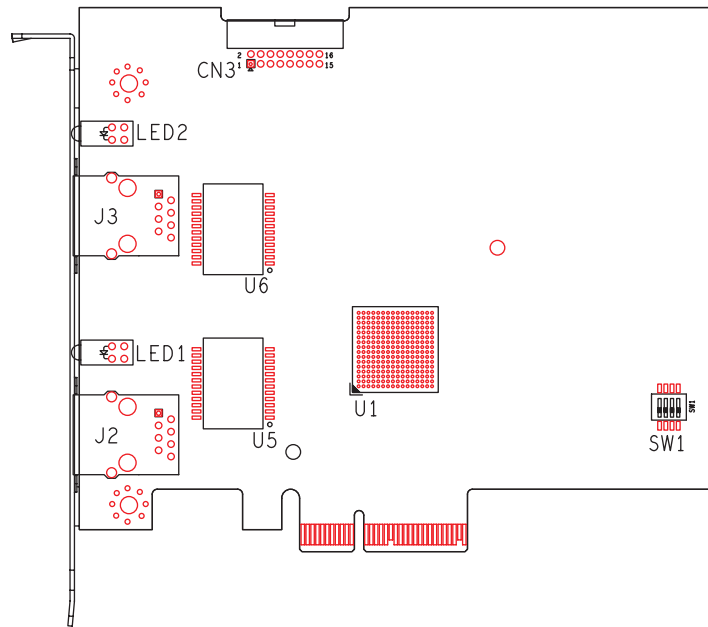
PCIe-GIE62	2-CH GigE Vision Frame Grabber
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Accessory

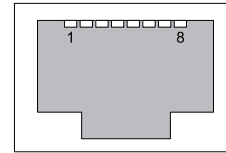
Camera-CSGV90BC3	TELI GiantDragon B/W Series Maximum resolution: 640x480 Maximum frame rate: 170fps
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Camera-CSGV90BC3 : is only for TW 、 Singapore 、 China 、 Korea

PCle-GIE62 Connectors & Pin Definitions

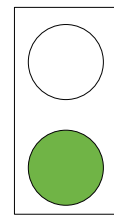


J2, J3: LAN port1, and 2



Pin	Signal	Pin	Signal
1	MDI0+	5	MDI2-
2	MDI0-	6	MDI1-
3	MDI1+	7	MDI3+
4	MDI2+	8	MDI3-

LED1, LED2 : LAN 1, and 2 status LED

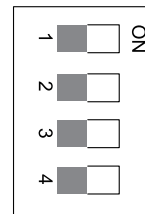


LED Color	Color	Function
Bi color (Speed status)	Orange	1000Mbps
	Green	100Mbps
	OFF	10Mbps
Green (Link status)	ON	Link
	OFF	Link off
	Blinking	Data transfer in progress

I/O Specification

Function	Electronic specification
Isolated Digital Input	Photo Coupled Input x 2 ch
Input voltage range	0 to 25V
Low level	0 to 0.5V
High Level	2 to 25V
Isolated Digital Output	Photo Coupled Output x 2 ch
Load voltage range	3 to 24V
Output sink current	80mA (Max)
Output voltage drop	1.0V (Max)
Leak current	0.1mA (Max)
Reverse voltage	-6V
Isolated Trigger Input	Photo Coupled Trigger input x 2 ch
Input voltage range	0 to 25V
Low level	0 to 0.5V
High level	2.7 to 25V
Polarity	Positive / Negative Selectable
Minimum pulse width	0.1msec
Isolated Trigger out	Photo Coupled Trigger output x 2 ch
Load voltage range	0 to 5V
Output sink current	40mA (Max)
Output voltage drop	0.4V Max(@16mA)
Trigger Out Control	
Trigger delay	0msec to 1000msec selectable (1msec step.)
Trigger out pulse width	0.1msec to 50msec selectable (0.1msec step)
Polarity	Positive / Negative Selectable
Enable Control	Enable/Disable

SW1 : Card ID Select (support up to 4 cards)

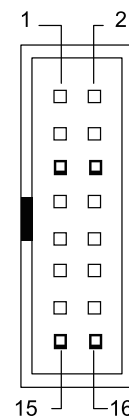


SW1		
Pin no	Signal Name	Default
1	Board ID Select 0	OFF
2	Board ID Select 1	OFF
3	Non use	OFF
4	Non use	OFF

Card ID	Board ID Select 0	Board ID Select 1
0	OFF	OFF
1	ON	OFF
2	OFF	ON
3	ON	ON

Card ID select table

CN3 : GPIO & Trigger



PIN	PIN NAME	TYPE
1	In01	IN
2	ComI01	IN
3	In02	IN
4	ComI02	IN
5	Out01	OUT
6	ComO01	OUT
7	Out02	OUT
8	ComO02	OUT
9	TrgIn1	IN
10	TrgComI01	IN
11	TrgIn2	IN
12	TrgComI02	IN
13	TrgOut1	OUT
14	TrgOut2	OUT
15	Frame Ground	OUT
16		