ADVANTECH

PCIE-1674/72E-BE 4/2 ports PCI Express PoE+ GigE Vision Frame Grabber
Startup Manual

Packing List

Before you begin installing your card, please make sure that switch PoE off if you are not connect to PoE device and check the following items have been shipped:

1. PCIE-1674/72E-BE ports PCI Express PoE+ GigE Vision Frame Grabber
2. 170304015K Power cable
3. Startup manual

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

Specifications

General

- **Chipset:**
  Intel I350 1G Ethernet Controller
  Compliant with IEEE 802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.3af, IEEE802.3at
  * Windows 10 & 11 already build in the driver for the Ethernet controller
- **Interface:** PCIE Gen 2 x 4
- **Data Transfer Rate:** 1,000 Mbps
- **Protection:**
  ESD: 8KV(Air), 6KV(Contact)
  EFT: 2KV
  Surge protection: 1KV

Mechanical and Environmental

- **Dimensions (L x W):** 165 x 110 mm (5.8" x 3.9")
- **Power Requirements:**
  12 VDC direct from PCIe slot, or with optional 12 V_{DC} AT/ATX power jack input
  54 VDC PoE+ power output IEEE802.3af support, total power budge 60W with maximum 25.4W per port and protect by recoverable eFuse.
  * The efuse will recover and card will back to functional once disconnect the overload defect PoE device
- **Net Weight:** 256 g

For more information on this and other Advantech products, please visit our website at:

http://www.advantech.com

For technical support and service, please visit our support website at:

https://www.advantech.com/en/contact/service-request-form?subject=technical%2bsupport

This manual is for the PCIE-1674/72E-BE.

Connectors

Main Board Connectors

Ports	Function
RJ Port 1~4 (PICE-1674E-BE)	1 GigE ports 1~4
RJ Port 1~2 (PCIE-1672E-BE)	1 GigE ports 1~2

LED indicators of RJ 45 (Lan) connector

LEDs	Description
Lan LED (In the left of RJ45 connector)	Green: Ethernet connected
Link LED (In the right of RJ45 connector)	Green: 1G Yellow: 100 Mbps

Bracket LED indicators

LEDs	Description
POE 1~4 (PCIE-1674E-BE) POE 1~2 (PCIE-1674E-BE)	on : PoE power on off : PoE power off

PoE LED indicator

Link LED (Yellow)

LAN LED (Green)
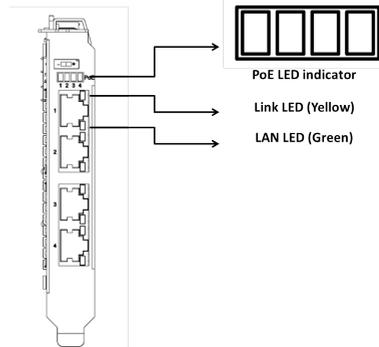
Figure 1: Bracket LED Indicators

Connector (Cont.)

AT/ATX 12V DC input 4-pin power connector

Pin	Function
Pin 1	GND
Pin 2	GND
Pin 3	+12V
Pin 4	+12V
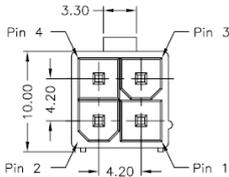
Figure 2: AT/ATX 12V DC input 4-pin Power Connector

PoE Power Switch

Pin	Function
On	PoE power On
1	PoE power Off

* Default is PoE on.(position on)

** Switch off PoE (position 1) before system boot up

***Don't switch PoE on or off during system running
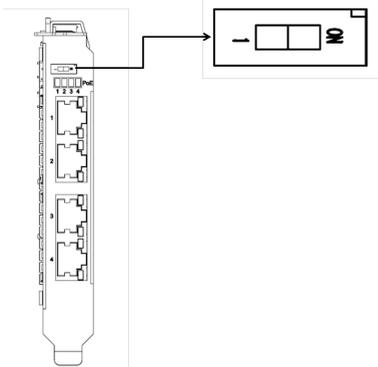
Figure 3 PoE Power Switch

Connector (Cont.)

Board ID Switch

| Pin	Function
1	
2	Configure different on/off position to set-
3	up the board ID in multi-card scenario
4	
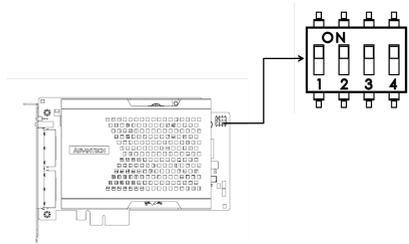
Figure 4 Board ID Switch

Declaration of Conformity

FCC Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference in which case the user is required to correct interference at his own expense.

CE

This product has passed the CE test for environmental specifications when shielded cables are used for external wiring. We recommend the use of shielded cables. This kind of cable is available from Advantech. Please contact your local supplier for ordering information.

Board Layout

Figure 5: Board Layout