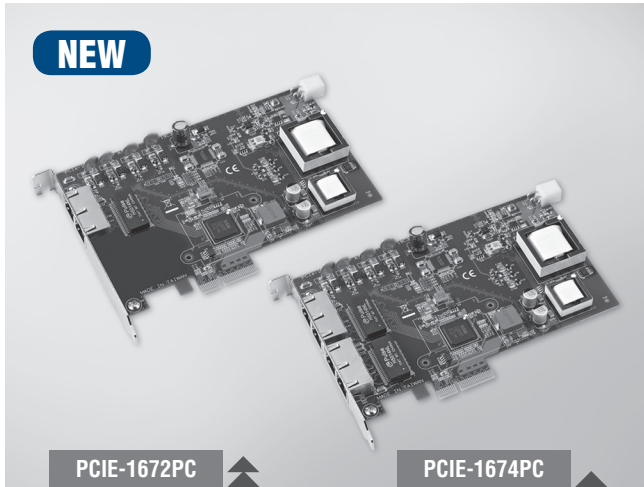# PCIE-1672PC

2-port 10/100/1000 BaseT(X) 802.3af (PoE) Compliant Ethernet ports, PCI Express Communication Card

PCIE-1674PC

4-port 10/100/1000 BaseT(X) 802.3af (PoE) Compliant Ethernet ports, PCI Express Communication Card

NEW

PCIE-1672PC   PCIE-1674PC

Features

- Intel® server-grade GbE Mac Controller
- PCI Express® x4 compliant
- Supports 12 V_{DC} AT/ATX input power boost up to 15.4 watts at 48 V_{DC} per PoE port
- Powered Device (PD) auto detection and classification
- Supports IEEE 802.3u Auto-Negotiation
- 2.25 KV isolation protection on LAN ports and power
- Supports Jumbo frame (9,500 byte) and link aggregation
- Supports IEEE-1588 and IEEE-802.1 AS
- PC CPU off-load by onboard DSP processor

Introduction

The PCIE-1672PC/PCIE-1674PC PoE (Power over Ethernet) PCIE series is PCI express communication card which supports 2 or 4 independent 10/100/1000BaseT(X) 802.3af (PoE) compliant Ethernet ports. With 12 V_{DC} AT/ATX power input, the PCIE-1672PC/PCIE-1674PC can boost then provides up to 15.4 watts at 48 V_{DC} power to maximum 2 or 4 x PoE ports on each module. It allows power to be supplied to connected devices, such as PoE-based GigE cameras in machine vision inspection systems, without the need to use separate PoE injectors for those applications. With its 2.25 KV isolation protection, and overload current/voltage protection on LAN ports, the PCIE-1672PC/PCIE-1674PC is ideally designed for scientific research instrumentations, Medical Research Instrumentations, Gigabit Ethernet surveillance IP cameras in intelligent transportation systems, which can also benefit from a scalable Gigabit backbone construction with Power-over-Ethernet support.

Specifications

Ethernet Communications

- **Compatibility**: IEEE 802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.3af
- **Speed**: 10/100/1000 Mbps
- **No. of Ports**: 2 or 4 Gigabit Ethernet Media Access Control (MAC) and physical layer (PHY) ports.
- **Port Connector**: 8-pin RJ45
- **Protection**: Built-in 2.25KV isolation protection on LAN ports and power, ESD 8KV, EFT 2KV
- **Bus Interface**: PCI Express® x4 compliant

Power Requirements

- **Input Voltage**: 12 V_{DC}, AT/ATX System power input
- **Overload Current Protection**: Present
- **Connection**: AT/ATX Power Jack
- **Output PoE Power**: 48 V_{DC} PoE Power output
  PCIE-1672PC   Supports 2 PoE ports up to 15.4 W at 48 V_{DC}
  PCIE-1674PC   Supports 4 PoE ports up to 15.4 W at 48 V_{DC}
- **Power Consumption**
  PCIE-1672PC   Typical: 15.4W, Max: 35.4W
  PCIE-1674PC   Typical: 15.4W, Max: 70.8W

Environment

- **Operating Temperature**: 0 ~ 50°C (0 ~ 122°F)
- **Storage Temperature**: -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity**: 5 ~ 95% RH

Mechanics

- **Dimensions (W x D)**: 185 x 110 mm (7.3'' x 3.9'')

Ordering Information

- **PCIE-1672PC**   2-port PoE ports PCI Express Comm Card
- **PCIE-1674PC**   4-port PoE ports PCI Express Comm Card

ADVANTECH | Serial Communication Cards

Date updated: 14 - Nov- 2013