PCIE-1181
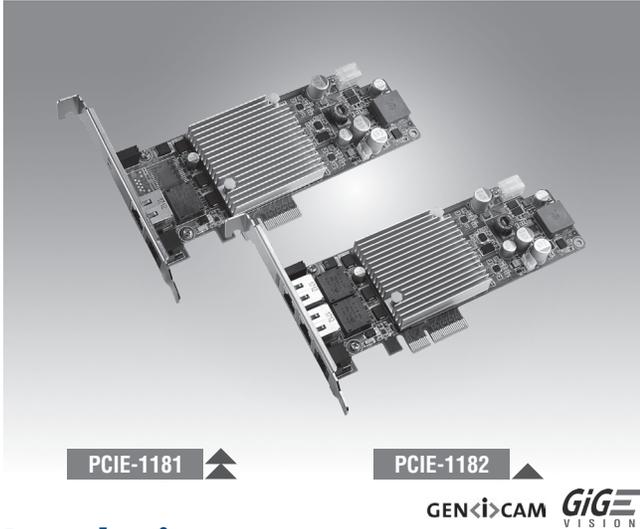# PCIE-1182

1-port PCI Express 10 GigE Vision Frame Grabber

2-port PCI Express 10 GigE Vision Frame Grabber

PCIE-1181   PCIE-1182

GEN<i>CAM   GigE VISION

Features

- Intel server-grade X550-AT2 10GbE MAC+PHY Ethernet Controller
- Supports Jumbo frame (16,000 byte) and link aggregation
- PCI Express x4 compliant, low profile
- PoE+ compliant, dual channel 12VDC output
- Programmable PoE+ power on/off control
- Powered Device (PD) auto detection and classification

Introduction

PCIe-1181/1182 series is PCI Express® 10 GigE Vision frame grabber which supports 1 or 2 independent 10,000/5,000/1,000/100 BaseT(X), 802.3at (PoE+)compliant Ethernet ports. With 12 VDC power output, the PCIE-1181/PCIE-1182 can provides up to 24 watts for each of 2 12VDC output port. It allows power to be supplied to connected devices, such as 10 GigE cameras, LED lighting in machine vision system. Features with16,000 byte Jumbo frame and programmable PoE+ power control, the PCIE-1181/PCIE-1182 series can significantly reduce the CPU workload, and increase the reliability for high performance, robust and reliable machine vision applications.

Specifications

Ethernet Communications

- **Compatibility**   IEEE 802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.3af, IEEE802.3at
- **Speed**   10,000/5,000/1,000 Mbps
- **No. of Ports**   1 or 2, 10GBASE-T MAC and PHY.
- **Port Connector**   8-pin RJ45 Copper
- **Bus Interface**   PCI Expressx4 compliant

Protection

- **ESD**   8KV (air), 6KV (contact)
- **EFT**   2 KV
- **Surge Protection**   1 KV

Power Requirements

- **Input Voltage**   12 V$_{DC}$ direct from PCIe slot, or with optional 12 V$_{DC}$ AT/ATX power jack input
- **Overload Current Protection**   Present
- **Connection**   AT/ATX Power Jack
- **PoE+ output**   60W (2 port) / 30Watt (1 port), protect by recoverable eFuse
- **VDC output**   12 V$_{DC}$ up to 48Watt (2 port) / 24Watt (1 port), protect by recoverable eFuse

Environment

- **Operating Temperature** 0 ~ 60°C (32 ~ 140°F)
- **Storage Temperature**   -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity**   5 ~ 95% RH

Mechanics

- **Dimensions (W x D)**   167 x 68.9 mm, PCIe low profile
- **Weight**   300g

Certification

- **Compliance**   FCC CE Class A
- **Patent**   http://www.advantech.com/legal/patent

Ordering Information

- **PCIE-1181-AE**   1-port PCI Express 10 GigE Vision Frame Grabber
- **PCIE-1182-AE**   2-port PCI Express 10 GigE Vision Frame Grabber

ADVANTECH   Intelligent Motion Control and Machine Vision

All product specifications are subject to change without notice.   Last updated: 10-Jun-2020