

PCIe-PoE550X

2-port 10GbE Network Adapter with IEEE 802.3at PoE+



Key Features

- Two 10 GbE ports by Intel® X550-AT2 10 GigE controller
- Gen3 PCI Express x4 interface
- Supports 10GbE with CAT-6/ 6a cable (Max. 100 meters)
- Supports 802.3at PoE+ with CAT 6a cable
- Supports NBASE-T and 1000BASE-T with CAT-5/ 5e cable
- Compliant with IEEE 802.3at to deliver 25.5W each port
- Supports 15.5 KB jumbo frame, NIC teaming and IEEE 1588
- Per-port PoE+ power on/off control via API

Introduction

Introducing the world's first 10Gbit Ethernet NIC incorporating IEEE 802.3at PoE+ capability, featuring Intel® X550-AT2, Neousys Technology's PCIe-PoE550X offers cost-effective 10GBAST-T solution for growing 10GbE applications.

PCIe-PoE550X features 10GbE NIC incorporating Power over Ethernet (PoE+) capability. It features Neousys' proven 802.3at PoE+ technology and refined power design to ensure optimal signal integrity over 10G PHY and maximal bandwidth. The combination of 10GbE and PoE opens the door to new applications such as high-performance WiFi access points and high-speed/ high-definition industrial cameras over single Ethernet cable.

10GBASE-T leverages twisted-pair copper cable and RJ45 connector that dramatically reduces the deployment cost of 10G network. PCIe-PoE550X provides 10Gbit/s connections over a distance of up to 100 meters with CAT 6a cable or 55 meters with CAT 6 cable. It also supports upcoming NBASE-T standard as well as backward compatibility with existing 1000BASE-T GbE network so you can easily implement it into your current network infrastructure.

Specifications

| | |
|---------------------------------|--|
| Bus Interface | Gen3 PCI Express x4 |
| # of 10 GbE Port | 2x 10 GbE ports by Intel® X550-AT2 controller, supporting 15.5 KB jumbo frame, teaming and IEEE 1588 |
| Network Protocol Support | IEEE 802.3 Ethernet interface for 10GBASE-T (IEEE 802.3an), NBASE-T (IEEE 802.3bz) and 1000BASE-T (IEEE 802.3ab) |
| PoE Capability | Optional IEEE 802.3at-2009 (PoE+), up to 25.5W per port |
| Cable Requirement | For 10GBASE-T: CAT 6a (100 meters) or CAT 6 (55 meters) For 5 Gbps NBASE-T: CAT 6 (100 meters) For 2.5 Gbps NBASE-T: CAT 5e (100 meters) |
| Power Requirement | Maximum 11.5W for 2x 10 GbE operation Maximum 51W for powering PoE+ devices |
| EMC | CE Class A, according to EN 55024/ 55032 FCC Class A, according to FCC Part 15, Subpart B |
| EMS | IEC 61000-4-x Class/ Level 3 |
| Operating Temperature | 0°C ~ 60°C with air flow |
| Dimension | 168 mm (W) x 111.2 mm (H) |

Ordering Information

| Model No. | Product Description |
|--------------|---|
| PCIe-PoE550X | 2-port 10GbE Network Adapter with IEEE 802.3at PoE+ |
| PCIe-10G550X | 2-port 10GbE Network Adapter |