



PCI Express 1G BASE-T Network PoE Card

User Manual

Ver.1

For latest manual and driver update:

Please visit <https://www.sunix.com> by searching "LAN4350PL".

Introduction

SUNIX LAN4350PL is Low profile 4 port 802.3AT POE network card based on 1G Base-T which meets the high bandwidth requirement. Equipped with intel I350 network chip, LAN4350PL designed for IEEE 802.3 at/af, the max. output for network port is up to 30W on each port. It is very easy to deploy the network environments with one network cable and no external power required. With isolation design, LAN4350PL can ensure the safety of system and the preservation of data when a lightning strike occurs.

Features

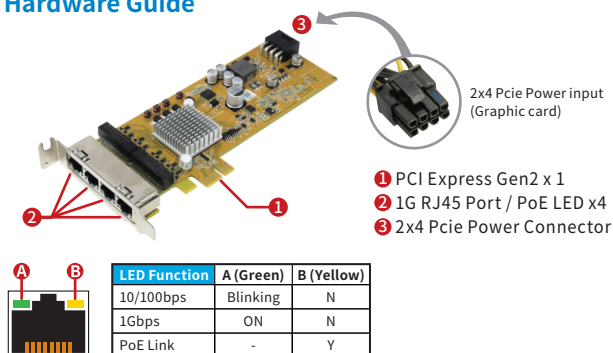
- Compatible PCI express Gen2 x 1.
- MDI (Copper) standard IEEE 802.3 Ethernet interface for 1000BASE-T, 100BASE-TX, and 10BASE-T applications (802.3, 802.3 and 802.3ab)
- Advanced Configuration and Power Interface (ACPI) power management states and wake-up capability
- Advanced Power Management (APM) wake-up functionality
- Support IEEE 802.3at/af
- 2K surge and 2.5K isolation input to output.

Package Checklist

Please check if the following items are present and in good condition upon opening package. Contact your vendor if any item is damaged or missing.

- LAN4350PL - 4 port 1G BASE-T Network 802.3AT PoE PCIe Card

Hardware Guide



Specification

Model	LAN4350PL
Description	4 ports 1G Network PoE PCIe Card
Chipset	Intel I350
Interface	PCI Express Gen2 x1
Port	RJ45 (1GbE) x 4
Standard	· IEEE 802.3 Ethernet interface for: 1000BASE-T, 100BASE-TX, and 10BASE-T applications (802.3, 802.3u, and 802.3ab) · IEEE 802.3at/af
Network Media	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) 100BASE-TX: UTP category 5, 5e cable (maximum 100m) 1000Base-T: UTP category 5, 5e cable (maximum 100m) 2500Base-T: UTP category 5e, 6 cable (maximum 100m)
Data Rates	10/100/1000Mbps
O.S Support	Windows 10 ~ 11(X86/X64) Linux 5.8 and above

Operating Environment

Temperature	0 to 60 °C (32 to 140 °F)
Humidity	< 85% non-condensing
Storage temp.	-10 °C ~ 85 °C (14~176°F)

Regulatory Approvals

EMC	EUR: CE, US: FCC, Japan: VCCI, TAIWAN: BSMI
Green	RoHS

Dimension

PCB Dimension	167 * 68.5 * 1.6 mm
Bracket	Low Profile 80 mm
Bracket Space	1

PoE Specifications

PoE+ Feature	· Supports IEEE 802.3at/af Power Sourcing Equipment (PSE) 1. Power form GFC connector: 54 V(30W max) 2. Power from PCIe bus : 44V(12.95 max) · Provides PD real-time protection through the following mechanisms: overload, under-load, over-voltage, over-temperature, and short-circuit. · Auto mode – allows turning PDs on and off automatically.
Power Input Options	2 power input options (Priority: PCIe(GFC) 8 pin power > PCIe bus power): · PCIe(GFC) 8 pin power :12V · PCIe Bus: 12V

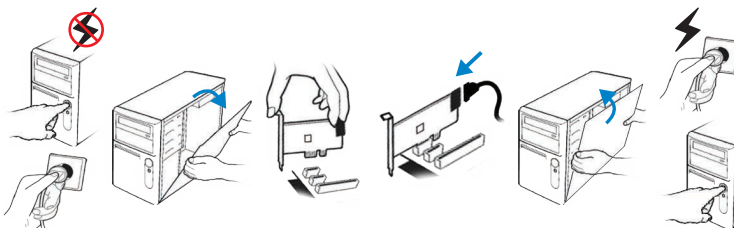
Hardware Installation

Before inserting the card into the PCIe Express bus, please follow the detailed steps given below to install the PCIe card in your computer.



SAFETY FIRST To avoid damaging to the computer, make sure to remove any power connection before card installation.

- Step 1:** Turn your PC's power off, and shut off the power to any peripheral.
- Step 2:** Remove the power plug from the plug socket.
- Step 3:** Remove the cover from the computer case.
- Step 4:** If fitted. Remove the metal cover plate on the rear of a free PCI-E slot.
- Step 5:** Insert PCI Express Serial Communication Card into the free PCI-E slot and screw it firmly on the bracket side.
- Step 6:** Plug-in the power cable to the Card.
- Step 7:** Place the cover back onto the computer.
- Step 8:** Insert the plug into the plug socket.

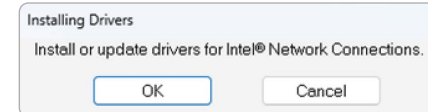
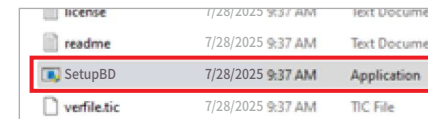


Driver Installation

SUNIX LAN4350PL Network card supports Windows and Linux operation system. Users can install the driver via the latest driver from official SUNIX website.



SetupBD.exe



Hardware Verify

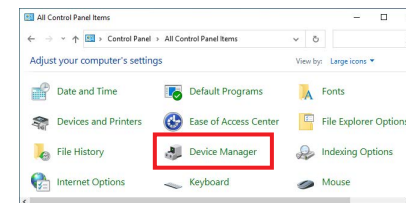
To mark sure network card installed ready, user can verify in the device manager.

- (1). Click on the "Device Manager" tab in the Windows Control Panel

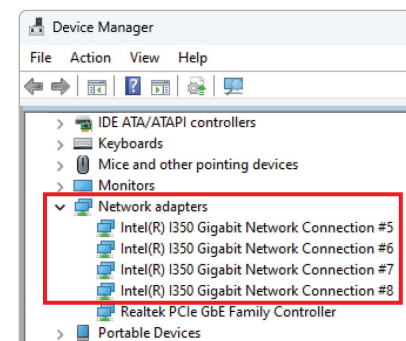
Start > Control Panel > Device Manager



Device Manager



- (2). Please entry "Network adapters" catalog, and "Intel(R) I350 Gigabit Network Connection..." shows in the device manager.

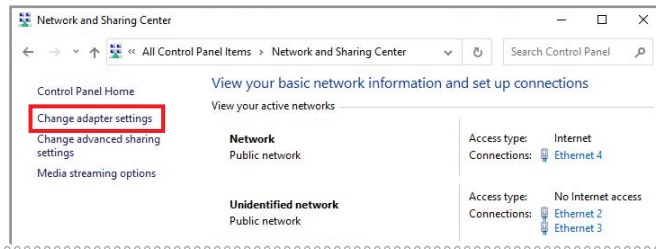
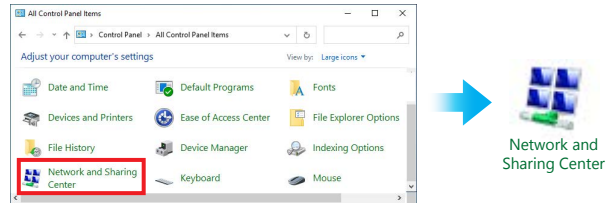


Network Setting

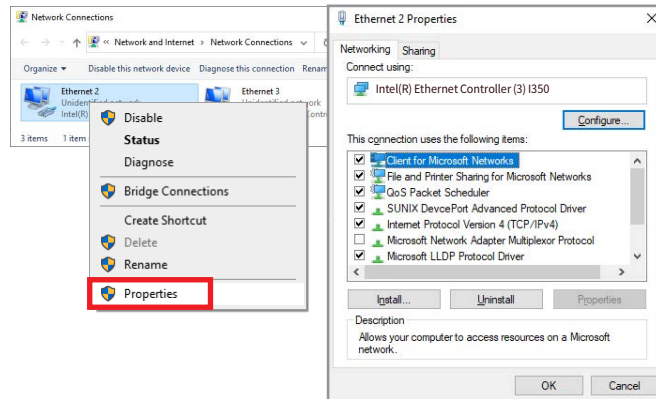
User can set 1G networking setting from the following instructions.

(1). Click on the **"Network and Internet"** tab in the Windows Control Panel

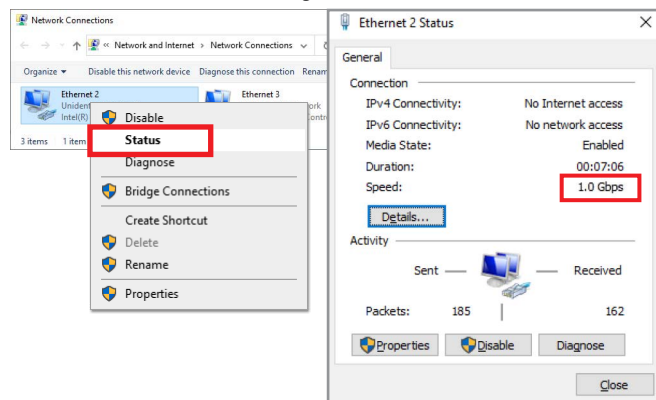
Start > Control Panel > Network and Internet > Network and Sharing Center



(2). Right click the **"Ethernet"** adapter and select **"Properties"** to set network settings.



(3). Right click the **"Ethernet"** adapter used by the network card, and select **"Status"** from the menu to affirm network settings.



Connection

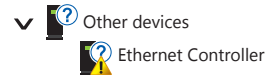
- To ensure the better transfer performance, please use the CAT5E or higher grade network cable.
- If you'd like to use PoE function, please make sure that the device is capable of supporting PoE.
- The power indicator goes on when PoE card supplies power to device successfully.

Troubleshooting

Q 1. My computer can NOT detect Network Ethernet card.

- Ans:a. Make sure the network card is correctly plugged into PCI Express slot.
If not, turn off your computer and try another PCI Express slot.
b. If the network card is plugged correctly, please check card's golden connectors (finger) is clean; if not, clean golden connectors (finger) surface by eraser.
c. Please upgrade your motherboard BIOS to the least version.
d. If above operations are useless, please try another PC desktop to check board itself is workable or not.

Q 2. How to deal with yellow exclamation mark on Ethernet Controller?



Ans: If there's an Ethernet Controller shows yellow exclamation mark in the device manager, please try to re-install driver again by following driver installation guide. If problem still happens, please try install network card into another PCI Express slot.

Q 3. How to configure 10/100/1000 Ethernet settings?

Ans: PCIe Networking card is able to automatically sense and operate on either speed without manual reconfiguration. Just connect the correct Ethernet cable between PCIe card and Networking Switch or router, and then user would get the best performance.

Q 5. How to check PoE feature?

- Ans:a. Please ensure that your device support PoE power input.
b. After you connect your device to our card, PoE LED on.

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