

Manual



04-1429A

TAA
Compliant

CN-GP1411-S1

Single Port 1G SFP Ethernet Network PCIe Card

User Manual



Thank you for choosing **SIIG** for your connectivity needs in IT and AV products. Our products are engineered for optimal performance and reliability. To ensure the best experience and safety, please read the instructions thoroughly and keep this user guide for future reference. For more details about our product range, visit www.siig.com.

If you require technical support, email us at support@siig.com For drivers or manuals, please visit www.siig.com/download



ESD CAUTION

Hardware Installation

Note: For low profile systems, replace the currently mounted bracket with the included low profile bracket.

Since the design of computer cases and motherboards vary, refer to your computer's reference manual for further information, if needed. Static Electricity Discharge may permanently damage your system. Discharge any static electricity build up in your body by touching your computer case for a few seconds. Avoid any contact with internal parts and handle cards only by their external edges.

- Turn OFF the power to your computer.
- Unplug the power cord and remove your computer cover.
- Remove the slot bracket from an available PCIe slot.
- Carefully align the card to the selected PCIe slot push the board down firmly, but gently, until it is well seated.
- Replace the slot bracket holding screw to secure the card.
- Replace the computer cover and reconnect the power cord.

Introduction

Allow to add single 1G SFP Ethernet Network PCIe Card to your system. This network PCIe card supports 10/100/1000 Ethernet, eliminating network bottlenecks.

Key Features

- Quickly adds a SFP Fiber Gigabit Ethernet port to your PC system through PCIe x1 slot
- Compatible with most Gigabit SFP modules
- Integrated 10/100/1000BASE-T and 1000BASE-X/SGMII 1.25 Gbaud SerDes transceivers
- Supports Full/Half-duplex Auto-Negotiation, Auto-MDI/MDIX
- Virtual LAN (VLAN) support—IEEE 802.1q VLAN tagging
- Power Management Offload (PM Offload)
- ACPI power management compliance
- Wake-on-LAN support
- Jumbo frame support for up to 9.6K payload
- Includes full-profile/low-profile installation bracket

Package Contents

- Single Port 1G SFP Ethernet Network PCIe Card
- Low profile bracket
- User Manual



Setup Requirements

- PC with an available PCIe 2.0 slot (x1, x4, x8, x16)
- Windows® 11 (64-bit) / 10 (64-bit)
- Windows® Server 2019 / 2016 / 2012 R2 / 2012

Specifications

Chipset	Broadcom BCM5720
Data transfer	Up to 1000Mbps (1Gbps)
PCIe standard	Compliant with 2.0 specification
Connector	1x SFP Female ; 1x PCI Express x1
Dimensions	4.75" (W) x 0.84" (H) x 3.65" (D)
Weight	0.07 lbs
Operating temperature	32 to 122 degrees F
Storage temperature	14 to 140 degrees F
Relative Humidity	5% to 85% RH (non-condensing)
Warranty	2 years limited
Country of origin	Made In Taiwan (TAA Compliant)

Layout

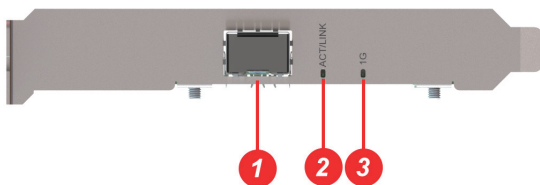


Figure 1: SFP Ethernet Network PCIe Card

No.	Connections	Descriptions
1	SFP Slot	Connection with network SFP cable, this network cable consists of two individual cable for transmission (TX) and reception (RX)
2	ACT/Link LED	Steady: Avalid network connection established Flashing: Transmitting or receiving data
3	1G LED	Gigabit (1000Mbps) network connection indicators



Windows Driver Installation

Besides, the card may auto-install using native drivers; however, it is recommended to use the latest drivers version provided on siig.com's website.

1. Go to Device Manager to verify installation.

For Windows 11/10: Right click **This PC**, **Computer** or **My computer**, click **Manage**, then click **Device Manager**.

For Windows Server 2019 / 2016 / 2012 R2 / 2012: Right click **Computer** or **This PC**, click **Properties**, then click **Device Manager**.

2. Double click **Network adapters**, the **Broadcom NetXtreme Gigabit Ethernet** should be displayed.

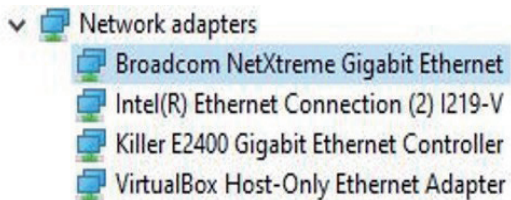
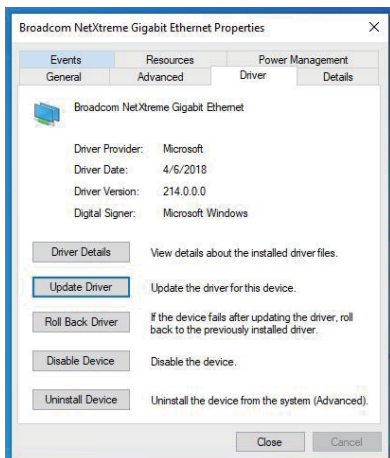


Figure 2: Device Manager Network Adapters Listing

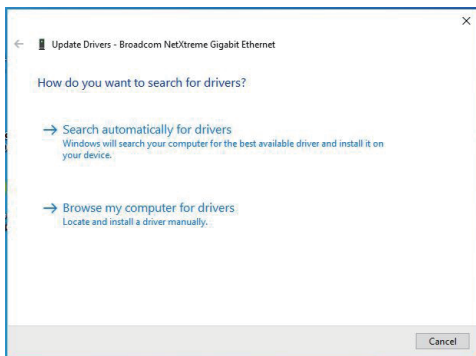
Windows Driver Update

1. Navigate to <https://www.siig.com/download>.
2. Search product part number for **CN-GP1411-S1** and then click **Download driver**.
3. Unzip driver folder and save on the PC system desktop.
4. Go to **Device Manager** to check the driver listing.
5. Double click **Broadcom NetXtreme Gigabit Ethernet**.
6. Check the **Driver** window and click **Update Driver**.

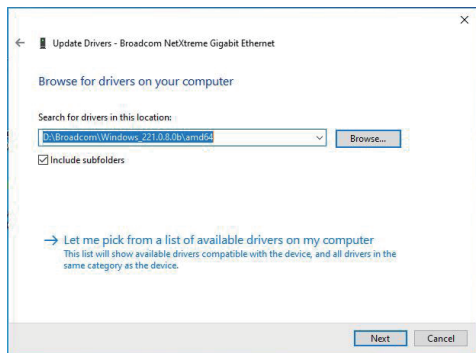




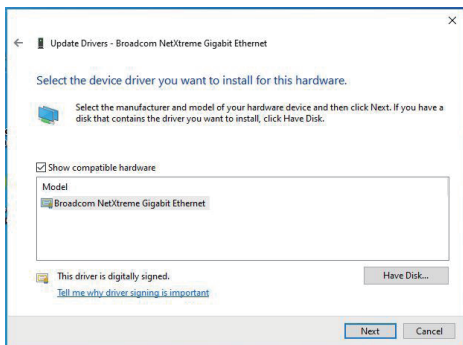
7. Click **Browse my computer for drivers**.



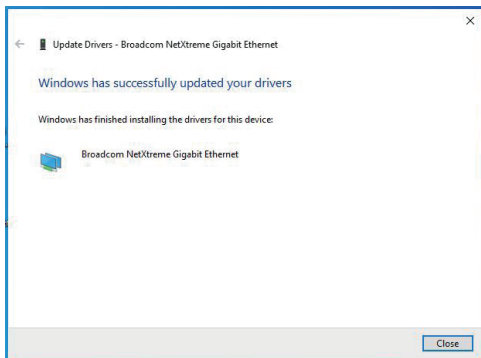
8. Click **Browse...** and search the driver location, then click **Next**.



9. When **Broadcom NetXtreme Gigabit Ethernet** appears on the compatible hardware window and then click **Next**.



10. The new version of the driver will be automatically updated to the system.





Connect SFP to a Network

1. Install the desired SFP module into the SFP slot on the PCIe card.
2. Prepare a fiber cable with the appropriate connectors for both end devices. Connect one end to the 1G SFP Ethernet PCIe Card and the other end to a 1G SFP port on the network switch.
3. Connect the fiber cable to the SFP connector on the 1G SFP Ethernet PCIe Card. The cable consists of two individual fibers: one for transmission (TX) and one for reception (RX).
4. Connect the other end of the fiber cable to the SFP connector of 1000BASE-SX/LX switch.
5. Insert the fiber connected to the TX port on the 1G SFP Ethernet PCIe Card into the RX port on the network switch.
6. Insert the fiber connected to the RX port on the 1G SFP Ethernet PCIe Card into the TX port on the network switch.
7. Once both ends of the cable are properly connected, power on the PC.
8. Check the ACT/Link LED. The LED will light up when the 1G SFP Ethernet PCIe Card receives a valid link signal from the connected device or network switch.

Disclaimer

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