

Neousys Technology Inc.

PCIe-PoE334LP

User Manual Revision 1.0

Table of Contents

Legal Contac Notice Safety Servic ESD P	of Contents
1	Introduction
1.1 1.2	PCIe-PoE334LP Specification
2	Setting Up Your PCIe-PoE334LP Card
 2.1 2.2 2.3 2.4 2.4.1 2.4.2 	Unpacking Your PCle-PoE334LP 12 Superior View 12 Status LEDs 13 DIP Switches 14 Switching Between PoE (af) and PoE ⁺ (at) Mode 14 Board ID Settings 15
3	PCIe-PoE334LP Card Installation
3.1 3.2	Hardware Installation
4	Driver and Network Settings
4.1 4.2 4.3	Jumbo Frame
Apper	ndix A Using Per-Port PoE On/Off Control
Per-Po	Installation

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Safety Precautions

Read these instructions carefully before you install, operate, or transport the system.

- Install the system or DIN rail associated with, at a sturdy location
- Install the power socket outlet near the system where it is easily accessible
- Secure each system module(s) using its retaining screws
- Place power cords and other connection cables away from foot traffic.
- Do not place items over power cords and make sure they do not rest against data cables
- Shutdown, disconnect all cables from the system and ground yourself before touching internal modules
- Ensure that the correct power range is being used before powering the device
- Should a module fail, arrange for a replacement as soon as possible to minimize down-time
- If the system is not going to be used for a long time, disconnect it from mains (power socket) to avoid transient over-voltage

Service and Maintenance

- ONLY qualified personnel should service the system
- Shutdown the system, disconnect the power cord and all other connections before servicing the system
- When replacing/ installing additional components (expansion card, memory module, etc.), insert them as gently as possible while assuring proper connector engagement

ESD Precautions

- Handle add-on module, motherboard by their retention screws or the module's frame/ heat sink.
- Avoid touching the PCB circuit board or add-on module connector pins
- Use a grounded wrist strap and an anti-static work pad to discharge static electricity when installing or maintaining the system
- Avoid dust, debris, carpets, plastic, vinyl and styrofoam in your work area.
- Do not remove any module or component from its anti-static bag before installation

About This Manual

This manual introduces and describes how to setup/ install Neousys Technology PCIe-PoE334LP. As one of the first industrial low profile Power over Ethernet expansion cards on the market, it offers expandability, stability, flexibility and fast Ethernet access to peripheral devices.

Revision History

Version	Date	Description
1.0	May. 2020	Initial release



1 Introduction

PCIe-PoE334LP is the latest member of Neousys' well-acclaimed PoE NIC card family. It is the worlds' first low-profile form factor PoE card to integrate 4-port, server-grade GigE controller and 802.3at PoE+. The low-profile form-factor makes PCIe-PoE334LP an ideal solution with commercial off-the-shelf 2U server systems.

PCIe-PoE334LP is designed with state-of-the-art Intel® I350-AM4 GigE controller to offer exceptional Ethernet performance. It inherits Neousys' proven PoE technology to power your machine vision cameras and mobile surveillance IP cameras. In addition, PCIe-PoE334LP features solid surge protection design compliant with IEC 61000-4-5 Class 2. It is capable of withstanding 1 kV surge and 8 kV ESD on signal lines. This is particularly valuable for outdoor surveillance system or factory automation equipment where power surge may happen and damage the system through the Ethernet connection.

Incorporating low-profile form-factor and robust surge protection, PCIe-PoE334LP defines a new category of PoE card - a small and yet rugged solution for server systems and tough enough for industrial conditions.





1.1 PCIe-PoE334LP Specification

Bus interface	4-lanes, Gen2 PCI Express interface
Gigabit Ethernet Port	4x GigE ports by Intel® I350-AM4 controller, supporting 9.5 kB jumbo frame, teaming and IEEE 1588
PoE Capability	In compliant with IEEE 802.3at-2009 (PoE+), each port delivers up to 25.5 W of power 75W total power budget (due to power limitation of PCI Express bus)
Cable Requirement	CAT-5e or CAT-6 cable, 100 meters maximum
Power requirement	Maximum 1.2A @ 3.3 V from PCI Express bus Maximum 6.2A @ 12 V from PCI Express bus
EMC	CE Class A, according to EN 55022/55024
	FCC Class A, according to FCC Part 15, Subpart B
EMS	IEC 61000-4-x Class/ Level 2
Operating temperature	0°C ~ 55°C with air flow
Dimension	167.7 m (W) x 68.9 mm (H)



1.2 Dimension







NOTE

All measurements are in millimeters (mm).



2 Setting Up Your PCIe-PoE334LP Card

2.1 Unpacking Your PCIe-PoE334LP

Upon receiving the PCIe-PoE334LP package, please check immediately if the package contains all the items listed in the following table. If any item is missing or damaged, please contact your local dealer or Neousys Technology.

ltem	Description	Qty
1	PCIe-PoE334LP	1
2	Full-height Bracket	1
3	Drivers & Utilities Disc	1

2.2 Superior View





2.3 Status LEDs



Speed LED (1)

LED Color	Status	Description		
	Orange	1000 Mbps		
Green or Orange	Green	100 Mbps		
	Off	10 Mbps		

Active/Link LED (2)

LED Color	Status	Description			
	Off	Ethernet port is disconnected			
Yellow	On	Ethernet port is connected and no data transmission			
	Flashing	Ethernet port is connected and data is transmitting/receiving			



2.4 DIP Switches

PCIe-PoE334LP features individual per-port power on/off control via Neousys' API so you may manually cut off or resume the power delivery to the connected PoE device. This feature is designed for failure recovery in the field to reset connected devices. In case you have installed multiple cards, there is a set of DIP switches (indicated in **blue**) for users to configure board ID. The board ID can be used as a parameter in API to specify the card.



2.4.1 Switching Between PoE (af) and PoE⁺ (at) Mode

The PoE334LP card offers two modes, users can choose between af mode (IEEE 802.3af) or high at mode (IEEE 802.3at) by configuring DIP switch 4.

Mode	DIP Switch 4 Position	Power Supplied
af	4	Up to 350mA per port
High at	4	Up to 720mA per port



2.4.2 Board ID Settings

The following illustrations describe DIP switch board ID settings. When installing multiple cards, please remember to set a different ID for each card.

Board ID	DIP Switch Position (P1 ~ P3)
0	
1	
2	
3	
4	
5	
6	
7	



3 PCIe-PoE334LP Card Installation

Once you have set up the DIP switch ID of your PCIe-PoE334LP for multi-card installation, then you are ready to install the PCIe-PoE334LP into the system. To install the PCIe-PoE334LP, please refer to the following procedure.

Before disassembling the system enclosure and installing the PCIe-PoE550X card, please read the following instructions:

- **DO NOT** remove the card out of the anti-static until you are ready to install it into the system.
- It is recommended that only qualified service personnel should install and service this product to avoid injury or damage to the system.
- Please observe all ESD procedures at all times to avoid damaging the equipment.
- Before disassembling your system, please make sure the system has powered off, all cables and antennae (power, video, data, etc.) are disconnected.
- Place the system on a flat and sturdy surface (remove from mounts or out of server cabinets) before proceeding with the installation/ replacement procedure.



3.1 Hardware Installation

- 1. Save and close all work in progress.
- 2. Power off and unplug the power cable from the system you wish to install to.
- 3. Open the chassis (side panel) of the computer you wish to install the PCIe-PoE334LP into.
- 4. Locate the x4 PCIe slot or a spare and compatible x16/ x8 PCIe slot.
- 5. Align and insert PCIe-PoE334LP's gold finger into the PCIe slot.





6. Secure the PCIe-PoE334LP to the chassis with a screw.



7. Reinstall the system's chassis (panel) to complete the hardware installation process.



3.2 Software Installation

Some operating systems may have built-in drivers included and automatically complete the installation upon entering the system. However, it is still recommended to run and install drivers provided by Neousys to take advantage of all the functions offered. To install the software component, please refer to the following procedure.

- 1. Plug in the power cable and power up the system.
- 2. Once you are in the system, insert the Neousys driver DVD included in the package into the DVD-ROM.



 Locate and execute the driver installation programs according to your operating system: For Windows XP, execute

\Driver_Pool\GbE_I210_I350\I350_XP\APPS\PROSETDX\XP2K3_32\DxSetup.exe For Windows 7/8.1/10 32-bit, execute \Driver_Pool\GbE_I210_I350\Win_ALL_32\APPS\PROSETDX\Win32\DxSetup.exe For Windows 7/8.1 64-bit, execute \Driver_Pool\GbE_I210_I350\Win_ALL_64\APPS\PROSETDX\Winx64\DxSetup.exe For Windows 10 64-bit, execute \Driver_Pool\GbE_I210_I350\Win_ALL_64\APPS\PROSETDX\Win10_x64\DxSetup.exe If your system does not have a DVD-ROM, please go here to download the latest driver for PCIe-PoE334LP.

5. Simply follow instructions to complete the software installation process.

4.

6. You may begin using your PCIe-PoE334LP after hardware/ software components have been installed.



4 Driver and Network Settings

PCIe-PoE334LP offers Gigabit Ethernet connectivity via Intel® I350-AM4 GbE controller. When connecting to a high-speed PoE device, such as a GigE camera, you can configure driver settings for optimum transmission throughput and connection stability.

4.1 Jumbo Frame

Jumbo frames are Ethernet frames with more than 1500 bytes of payload. By increasing the payload size, large data packets can be transferred with less interruption, which reduces CPU utilization and increases overall data throughput. Intel® I350 GbE controller supports jumbo frame size of up to 9.5 Kbytes. Once the Intel® I350 driver is installed, you may configure jumbo frame settings by executing the following steps:

 On your keyboard, press Windows key + E, right click on Network and select Properties.

🗅 📬 Network 🗖	
Control Pa	Expand
🧿 Recycle Bi	Open in new window
	Map network drive Disconnect network drive
	Delete
	Properties

2. Right click on the corresponding Local Area Connection (Intel I350 Gigabit Network ...) and select Properties.

Local Netw	Local Area Connection 6 Properties						
- mich	Networking Sharing						
	Connect using:						
	Intel(R) 1350 Gigabit Network Connection						
	Configure						
	This connection uses the following items:						
	Client for Microsoft Networks						
	QoS Packet Scheduler						
	 File and Printer Sharing for Microsoft Networks Internet Protocol Version 6 (TCP/IPv6) 						
	Internet Protocol Version 4 (TCP/IPv4)						
	Link-Layer Topology Discovery Mapper I/O Driver						
	Link-Layer Topology Discovery Responder						
	Install Uninstall Properties						
	Allows your computer to access resources on a Microsoft						
	network.						

3. Click on the **Configure** button, the following dialog appears and click on the **Advanced** tab.





 Highlight Jumbo Packet and select a jumbo frame size from the <u>V</u>alue drop-down list (9014 Byte is recommended for connecting devices with high data rate).

ntel(R) I350 Gig	abit Network Co	nnecti	ion Pro	perti	ies		×
Teaming	VLANs)river		De	etails
General	Link Speed	Ad	vanced		Pow	er Mana	gement
(intel)	Advanced Adap	ter Se	ttings				
Settings:				<u>V</u> alue	e:		
Gigabit Master			*	Disa	abled		-
Interrupt Mode Jumbo Packet			Ξ	_	abled		
	ffload V2 (IPv4)		-		8 Bytes 4 Bytes		
			-		Use	<u>D</u> efault	
Jumbo Packet	t						
Enables Jumbo Packet capability for TCP/IP packets. In situations where large packets make up the majority of traffic and additional latency can be tolerated, Jumbo Packets can reduce CPU utilization and improve wire efficiency. Jumbo Packets are larger than standard Ethernet frames, which are approximately 1.5k in size.							
NOTE: Changing this setting may cause a momentary loss of connectivity.							
			(ОК		Cancel



4.2 Receive Buffers

Receive Buffers is another option which can affect data throughput. It determines the size of memory buffer allocated for receiving data. Increasing the size of Receive Buffers can improve the performance of receiving data. The default setting of Receive Buffers is 256 bytes. When connecting to an Ethernet device that generates large amount of data, you can set this option to a larger value (maximum 2048 bytes) for better performance.

To configure Receive Buffers settings, please refer to the following:

1. On your keyboard, press **Windows key + E**, right click on **Network** and select **Properties**.

🛛 📬 Network 📩	
🖻 📴 Control Pa	Expand
🙍 Recycle Bi	Open in new window
	Map network drive
	Disconnect network drive
	Delete
	Properties



2. Right click on the corresponding Local Area Connection (Intel I350 Gigabit Network) and select "Properties".

Netw Intel	Local Area Connection 6 Properties Networking Sharing			
	Connect using:			
	Intel(R) 1350 Gigabit Network Connection			
	Configure			
	This connection uses the following items:			
	Glent for Microsoft Networks GoS Packet Scheduler			
	 File and Printer Sharing for Microsoft Networks 			
	Internet Protocol Version 6 (TCP/IPv6) Anternet Protocol Version 4 (TCP/IPv4)			
	Link-Layer Topology Discovery Mapper I/O Driver			
	Link-Layer Topology Discovery Responder			
	Install Uninstall Properties			
	Description			
	Allows your computer to access resources on a Microsoft network.			

3. Click on the **Configure** button, the following dialog appears and click on the **Advanced** tab.





4. Highlight **Performance Options** and click on **<u>P</u>roperties**.

Intel(R) I350 Gigab	it Network Cor	nnection P	roperties	×
Teaming	VLANs		Driver	Details
General	Link Speed	Advance	ed Pow	ver Management
(intel)	Advanced Adap	ter Settings		
<u>S</u> ettings:				
Interrupt Modera Jumbo Packet Large Send Offik Large Send Offik Locally Administr Log Link State E Performance Op	bad V2 (IPv4) bad V2 (IPv6) ered Address Event	A III	<u>P</u> ro	operties
Priority & VLAN	uons	Ŧ		
Performance Op	tions			
Configures the performance.	adapter to use :	settings tha	t can improve	adapter
			ОК	Cancel



5. Highlight **Receive Buffers** and enter a setting into the **Value** column (2048 Bytes is recommended for connecting devices with high data rate).

Intel(R) IB50 Gigabit Network Connection A	Properties 🛛 🔀
Performance Options	—
Settings: DMA Coalescing Flow Control Interrupt Moderation Rate Low Latency Interrupts Receive Buffers Transmit Buffers	Value: 2,048
Receive Buffers Sets the number of Receive Buffers use copying data to memory. Increasing this receive performance, but also consumes You might choose to increase the number you notice a significant decrease in the traffic. If receive performance is not an in setting.	value can enhance s system memory. er of Receive Buffers if performance of received issue, use the default
(OK Cancel
	Ţ
L	OK Cancel



4.3 Transmit Buffers

Like Receive Buffers, Transmit Buffers can affect the transmission performance. The default setting of Transmit Buffers is 512 bytes. If you encounter a performance issue while transmitting data, you can adjust the size of Transmit Buffers to a larger value (maximum 2048 bytes) for better performance.

To configure Transmit Buffers settings, please refer to the following:

1. On your keyboard, press **Windows key + E**, right click on **Network** and select **Properties**.





2. Right click on the corresponding Local Area Connection (Intel I350 Gigabit Network) and select Properties.

Netw Intel(Local Area Connection 6 Properties				
	Connect using:				
	Intel(R) 1350 Gigabit Network Connection				
	Configure				
	This connection uses the following items:				
	Client for Microsoft Networks				
	 GoS Packet Scheduler File and Printer Sharing for Microsoft Networks 				
	Internet Protocol Version 6 (TCP/IPv6)				
	 Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver 				
	Link-Layer Topology Discovery Mappen 70 Driver				
	Install Uninstall Properties				
	Description				
	Allows your computer to access resources on a Microsoft				
	Allows your computer to access resources on a Microsoft network.				

3. Click **Configure** button, the following dialog appears and click on the **Advanced** tab.

ntel(R) I350 Gig	abit Network Co	nnection Pr	operties		×
Teaming	VLANs		Driver	Det	ails
General	Link Speed	Advance	d P	ower Manage	ement
(intel)	Advanced Adaş	oter Settings			
Settings:			<u>V</u> alue:		
Gigabit Maste			Auto De	etect	-
Large Send O	ffload V2 (IPv4) ffload V2 (IPv6) stered Address	ш			
Performance (Options	*	l	Jse <u>D</u> efault	
Gigabit Master	r Slave Mode				
the master.	whether the adap The other device i e setting may impr	s designated	as the sla	ive.	E
CAUTION: Some multi-port devices may be forced to Master Mode. If the adapter is connected to such a device and is configured to "Force Master Mode", the device may either disconnect or downshift to a 100Mbps link. This may also occur in a "Forced Slave" to "Forced."					
			ОК	C	ancel



4. Highlight **Performance Options** and click on **<u>P</u>roperties**.

Intel(R) I350 Gig	jabit Network Co	nnection P	ropertie	s	×
Teaming	VLANs		Driver		Details
General	Link Speed	Advanc	ed	Power Man	nagement
(intel)	Advanced Adap	oter Settings			
<u>S</u> ettings:					
Large Send C	et Offload V2 (IPv4) Offload V2 (IPv6) nistered Address e Event	E		<u>P</u> roperties	
Priority & VLA		+			
Performance	Options				
Configures performanc	the adapter to use e.	settings the	at can im;	prove adapt	er 🔺
			0	к	Cancel



5. Highlight **Transmit Buffers** and enter a setting into the **Value** column (2048 Bytes is recommended for connecting devices with high data rate).

Intel(R) IB50 Gigabit Network Connection	Properties 🛛 🔀
Performance Options	×
Settings: DMA Coalescing Flow Control Interrupt Moderation Rate Low Latency Interrupts Receive Buffers Transmit Buffers	Value: 512 - The second
Transmit Buffers Sets the number of Transmit Buffers use copying data to memory. Increasing this transmission performance, but also come You might choose to increase the number you notice a significant decrease in the traffic. If transmission performance is no setting.	value can enhance sumes system memory. er of Transmit Buffers if performance of transmitted of an issue, use the default
	OK Cancel
	Ŧ
	OK Cancel



Appendix A Using Per-Port PoE On/Off Control

PCIe-PoE334LP supports power on/off control for each of its PoE ports. With provided function APIs, users can turn on or turn off the power of each PoE port manually for fault-recovery or device power reset purpose. To use the function, you need to install the WDT_DIO_Setup.exe driver package.

Please install WDT_DIO_Setup_v2.2.9.4 or later versions.

Driver Installation

The per-port PoE on/off control function library is delivered as a part of Neousys driver setup package (WDT_DIO_Setup). Please use **WDT_DIO_Setup_64_ v2.2.9.4.exe** or download the latest version from <u>here</u>.

1. Execute **WDT_DIO_Setup_v2.2.9.4.exe**. The following dialog appears.





2. Click "Next >" and you may specify a directory you would like to install the files to or you can install to the default directory "*C*:/Weousys/WDT_DIO".

🥼 Setup - Neousys Nuvo/Nuvis/POC Series WDT & DIO 64-bit Li — 🗌 🗙
Select Destination Location Where should Neousys Nuvo/Nuvis/POC Series WDT & DIO 64-bit Library be installed?
Setup will install Neousys Nuvo/Nuvis/POC Series WDT & DIO 64-bit Library into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Weousys\WDT_DIO(x64) Browse
At least 13.1 MB of free disk space is required.
< Back Next > Cancel

 Once the installation is finished, a dialog appears to prompt you to reboot the system. The WDT & DIO library will take effect after the system rebooted.

🦺 Setup - Neousys Nuvo/Nuv	ris/POC Series WDT & DIO 64-bit Li 🛛 🛛 🛛 🕹
	Completing the Neousys Nuvo/Nuvis/POC Series WDT & DIO 64-bit Library Setup Wizard
	To complete the installation of Neousys Nuvo/Nuvis/POC Series WDT & DIO 64-bit Library, Setup must restart your computer. Would you like to restart now?
	• Yes, restart the computer now
	○ No, I will restart the computer later
	Finish

4. When you programming your program, the related files are located in

Header File:	\Include	
Library File:	\Lib	
Function Reference:	\Manual	
Sample Code:	\Sample\POE_Demo	(PoE per-port Control Demo)

Per-Port On/Off Control Function Reference

PCI_GetStatusPoEPort

-			
Syntax	BYTE PCI_GetStatusPoEPort(DWORD boardId, DWORD port);		
Description	Acquire current power on/off status of designated PoE port.		
	boardld		
Parameter	DWORD value (0 ~ 7) to indicate board ID set for your card. Please refer to <u>DIP switch</u> settings for your PCIe-PoE card.		
	port		
	DOWRD value (1 ~ 4) to specify the PoE port.		
Return Value	Returns 1 if PoE power is on, 0 if PoE power is off.		
	DWORD boardID;		
	DWORD port;		
	BYTE PoEStatus;		
Usage	//Get PoE power status from board #0, port #1.		
	boardID = 0;		
	port = 1;		
	PoEStatus = PCI_GetStatusPoEPort (boardID, port);		





PCI_EnablePoEPort

Syntax	BOOL PCI_EnablePoEPort(DWORD boardId, DWORD port);
Description	Enable (turn on) PoE power for designated PoE port.
	boardld
Parameter	DWORD value (0 ~ 7) to indicate board ID set for your card. Please refer to <u>DIP switch</u> settings for your PCIe-PoE card.
	DOWRD value $(1 \sim 4)$ to specify the PoE port.
Return Value	Returns TRUE if successful, FALSE if failed.
	DWORD boardID; DWORD port; BOOL RetVal;
Usage	<pre>//Enable PoE power status from board #0, port #1. boardID = 0; port = 1; RetVal= PCI_EnablePoEPort (boardID, port);</pre>





PCI_DisablePoEPort

Syntax	BOOL PCI_DisablePoEPort(DWORD boardId, DWORD port);
Description	Disable (turn off) PoE power for designated PoE port.
	boardld
Parameter	DWORD value (0 ~ 7) to indicate board ID set for your card. Please refer to <u>DIP switch</u> settings for your PCIe-PoE card.
	DOWRD value (1 ~ 4) to specify the PoE port.
Return Value	Returns TRUE if successful, FALSE if failed.
	DWORDboardID;DWORDport;BOOLRetVal;
Usage	<pre>//Disable PoE power status from board #0, port #1. boardID = 0; port = 1; RetVal= PCI_DisablePoEPort (boardID, port);</pre>

