# **User's Guide**





SC-Type Fiber PCIe Adapter / Gigabit PCIe Adapter / SFP PCIe Adapter

TEG-ECSX / TEG-ECTX / TEG-ECSFP

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## **Product Overview**







## **TEG-ECTX**



## Package Contents

#### **TEG-ECSX**

- TEG-ECSX
- Multi-Language Quick Installation Guide
- CD-ROM (Drivers & User's Guide)

#### **TEG-ECTX**

- TEG-ECTX
- Multi-Language Quick Installation Guide
- CD-ROM (Drivers & User's Guide)

#### TEG-ECSFP

- TEG-ECSFP
- Multi-Language Quick Installation Guide
- CD-ROM (Drivers & User's Guide)

If any package contents are missing or damaged, please contact the retail store, online retailer, or reseller/distributor from which the product was purchased.

## TEG-ECSX

TRENDnet's SC-Type Fiber PCIe Adapter, model TEG-ECSX, converts a free PCI Express slot into an SC-Type Multi-Mode fiber port. Advanced features include Jumbo Frame, Layer 2 Priority tagging, VLAN tagging, and SNMP support. The included standard bracket are compatible with Windows<sup>®</sup>, Mac<sup>®</sup>, and Linux<sup>®</sup> tower computer designs.

#### **Features**

SC-Type Fiber Port Converts a PCIe slot into a 1000Base SC-Type Multi-Mode fiber slot

Jumbo Frame

Supports 9 K Jumbo Frames

LED Indicators LED indicators convey port status

Monitoring

SNMP v1 protocol support

Traffic Management

802.1Q VLAN and 802.1p Class of Service (CoS) support

Brackets Includes standard bracket

**Operating Systems** Compatible with Windows<sup>®</sup>, Mac<sup>®</sup>, and Linux<sup>®</sup> operating systems

## TEG-ECTX

TRENDnet's Gigabit PCIe Adapter, model TEG-ECTX, converts a free PCI Express slot into a Gigabit Ethernet port. Advanced features include Jumbo Frame, Layer 2 Priority tagging, VLAN tagging, and SNMP support. The included standard bracket are compatible with Windows<sup>®</sup>, Mac<sup>®</sup>, and Linux<sup>®</sup> tower computer designs.

#### **Features**

**Gigabit Port** Converts a PCIe slot into a 10/100/1000 Mbps Ethernet port

Jumbo Frame

Supports 9 K Jumbo Frames

#### **LED Indicators**

LED indicators convey port status

Monitoring

SNMP v1 protocol support

Traffic Management 802.1Q VLAN and 802.1p Class of Service (CoS) support

Brackets Includes standard bracket

**Operating Systems** Compatible with Windows<sup>®</sup>, Mac<sup>®</sup>, and Linux<sup>®</sup> operating systems

## **TEG-ECSFP**

TRENDnet's SFP PCIe Adapter, model TEG-ECSFP, converts a free PCI Express slot into an SFP fiber slot compatible with standard SFP modules. Advanced features include Jumbo Frame, Layer 2 Priority tagging, VLAN tagging, and SNMP support. The included standard bracket are compatible with Windows<sup>®</sup>, Mac<sup>®</sup>, and Linux<sup>®</sup> tower computer designs.

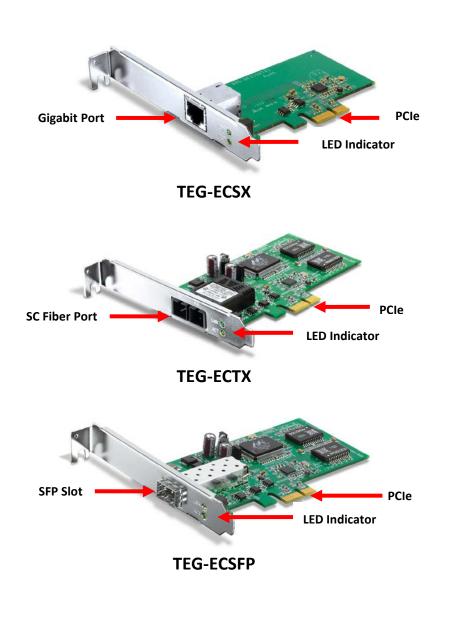
#### Features

#### SFP Slot

Converts a PCIe slot into a 1000Base SFP slot – compatible with standard SFP modules

Jumbo Frame Supports 9 K Jumbo Frames LED Indicators LED indicators convey port status Monitoring SNMP v1 protocol support Traffic Management 802.1Q VLAN and 802.1p Class of Service (CoS) support Brackets Includes standard bracket Operating Systems Compatible with Windows®, Mac®, and Linux® operating systems

## **Product Hardware Features**



- PCIe: Connects your adapter to an available PCIe slot on your computer.
- **LED Indicator:** The LED will turn on when connected and blink rapidly to indicate data activity.

#### **System Requirements**

- CD-ROM Drive (Utility and Driver Installation with included CD)
- PCI Express 1.1 slot
- Multi-mode fiber cable (TEG-ECSX)
- Cat. 5e or Cat. 6 network cable (TEG-ECTX)
- SFP module and fiber cables compatible with SFP modules media specs. (TEG-ECSFP)
- Windows<sup>®</sup> 8 (32/64-bit), 7 (32/64-bit), Vista (32-bit), or XP (32/64-bit)
- Mac OS<sup>®</sup> 10.6 10.9

## **Installing your Adapter**

This section describes how to install the software driver for your adapter.

## Windows® OS Installation

1. Insert the included CD-ROM into your computer's CD-ROM drive. **Note:** If you do not have the included CD-ROM, you can download the utility and drivers from http://www.trendnet.com/downloads/.



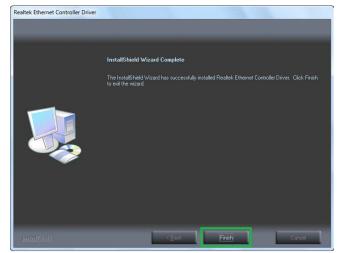
2. At the CD Autorun Prompt window, click Run Autorun.exe.

**Note:** If the Autorun prompt does not appear automatically, open the CD contents and double-click Autorun.exe.

3. At the CD-ROM main menu, click Install Drivers.

Quick Installation Guide	
User's Guide	
Product Registration	
Exit	

4. Follow the InstallShield Wizard and then click Finish.



5. Shutdown your computer and then open the computer's case.6. Insert the adapter firmly into an available PCI Express slot.

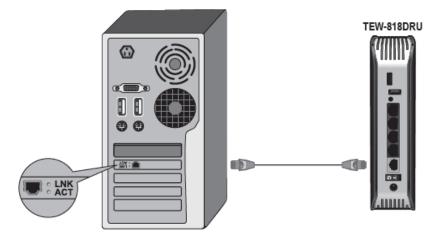


## TEW-804UB

- 7. Close your computer case
- 8. Power on your computer and wait until the Windows desktop appears
- 9. Your computer will detect the adapter and will automatically install the drivers.

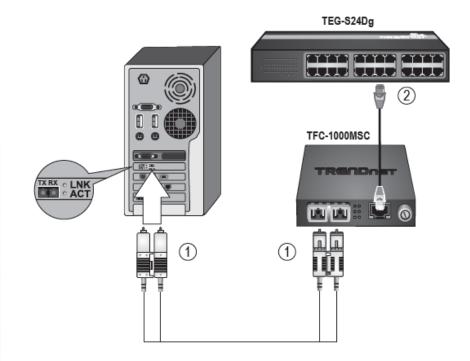
#### Connecting the TEG-ECTX to your network

1. Connect a Cat. 5e or Cat. 6 network cable from the TEG-ECTX adapter to an available Gigabit port on your Gigabit switch or router (e.g. TEW-818DRU).



#### Connecting the TEG-ECSX to your network

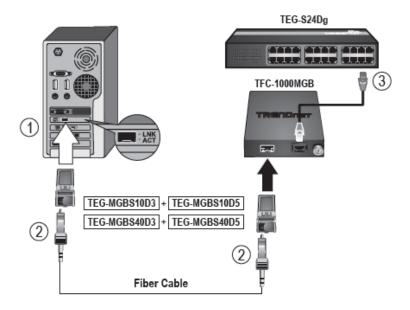
- 1. Connect a SC-type multi-mode cable from your TEG-ECSX adapter to a Gigabit multimode fiber device (e.g. TFC-1000MSC fiber converter.
- 2. Connect a Cat. 5e or Cat. 6 network cable from your Gigabit multi-mode fiber converter to a Gigabit port on your switch (e.g. TEG-S24Dg).



**Note:** The TX and RX cables must be reversed on the opposite fiber connection.

#### Connecting the TEG-ECSFP to your network

- 1. Insert a TRENDnet SFP module into the TEG-ECSFP adapter.
- 2. Connect a fiber cable from the adapter to a fiber device with a TRENDnet SFP module (e.g. TFC-1000MGB fiber converter with a TEG-MGBS10D3 + TEG-MGBS10D5).
- 3. Connect a Cat. 5e or Cat. 6 network cable from the multi-mode fiber converter to a Gigabit port on your switch or router.



#### Note:

- 1. The TX and RX cables must be reversed on the opposite fiber connection when using the TEG-MGBSX / TEG-MGBS10 / TEG-MGBS40 / TEG-MGBS80 SFP modules.
- 2. Cabling
  - Multi-Mode Fiber Optic Cable: TEG-MGBSX
  - Single-Mode Fiber Optic Cable: TEG-MGBS10 / TEG-MGBS40 / TEG-MGBS80
  - Single Strand Fiber Optic Cable: TEG-MGBS10D3 / TEG-MGBS10D5 / TEG-MGBS40D3 / TEG-MGBS40D5

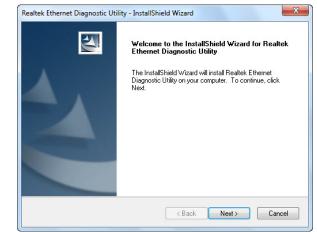
## Using the diagnostic utility

The Diagnostics Utility is a Windows platform application and is only available for Windows Vista. It provides General Information, VLAN ID settings, Driver property settings, Diagnostics function, Statistics, Cable analysis, and Wake On LAN function.

- 1. Visit <u>www.TRENDnet.com</u> to save and download the diagnostic utility in the product download page.
- 2. Once the download is completed, unzip the file and double click on **setup.exe** icon.

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	setup.inx
	setup.isn
	setup setup.inx

#### 3. Click Next to continue the installation.



4. Once the installation is complete, the utility window will automatically appear.

Realtek PCIe GBE Fami - 😌 General	9 General	
↓ ULAN © Diver → Diagnostics → Cable → Wake On LAN → About	MAC Address IP Address Connection Name Link Status Duplex Mode Vendor ID Device ID Sub/System ID Revision ID IO Address Internupt Number	00-e0-b3-12-02-36 192.168.10.105 Local Area Connection 10 1000 Full Duplex 10EC 8168 10EC 8168 01 B000 FE320000 0x12

**Note:** If the utility does not appear, go to **Programs**  $\rightarrow$  **Realtek**  $\rightarrow$  **Realtek Ethernet Diagnostic Utility** to launch the Diagnostics Utility manually.

## **Diagnostic Utility**

#### General

This page displays general information about the selected network adapter.

Realtek PCIe GBE Fam Second Second	💡 General	
	MAC Address	00-e0-b3-12-02-36
Diagnostics	IP Address Connection Name	192.168.10.105 Local Area Connection 10
	Link Status	1000
🚣 Cable		
- 🚳 Wake On LAN	Duplex Mode Vendor ID	Full Duplex 10EC
About		
	Device ID	8168
	SubVendor ID	10EC
	SubSystem ID	8168
	Revision ID	01
	IO Address	B000
	Memory Address	FE920000
	Interrupt Number	0x12

#### VLAN

This page shows information about VLANs on current selected network adapter. User can add or remove VLAN here. The user can change the VLAN ID of existing VLAN.

Realtek PCIe GBE Fami	VLAN
Cable     Wake On LAN     About	VLAN ID Connection Name Adapter Name
< >	Add Delete Modify VID

#### Driver

This page displays driver information of the selected network adapter.

Realtek PCIe GBE Fami	General	🕲 Driver		
	⊕	Description	Realtek PCIe GBE Family Controller	
	Diagnostics	Provider	Realtek	
	Statistics	Version	7.61.612.2012	
	🕹 Cable	Date	6-12-2012	
	Wake On LAN	INF Path	oem43.inf	
	About	Binary Path		
		Comment	This product is covered by one or more of the	
		•		

This page displays working parameters for this network adapter. The user can modify these parameters here.

	State Utility       Image: State	Advanced Setting The following properties are avail Click the property you want to ch its value on the right. Setting Auto Disable Gigabit How Control Interrupt Moderation IPV4 Checksum Offload Jumbo Frame Large Send Offload (IPV4 Network Address Prionty & VLAN Receive Buffers Shutdown Wake On-Lan Const & Dunlar	
€ <u> </u>	۰ III ا		

#### Diagnostics

This page performs hardware tests on the selected network adapter.

Realtek PCIe GBE Fami	General :	🐲 Diagnostics			
	⊕	Test Item	Pass	Fail	Repeat
	Diagnostics	Register	0	0	L Nepear
	Send and Recei	EEPROM	0	0	
		MAC Loopback	0	0	Start Test
	- 🕹 Cable	PHY Loopback	0	0	
		IRQ	0	0	
		FIFO	0	0	Stop Test
( III ) )	<				Ŧ

#### Send and Receive

Two computers with adapters in the same LAN can perform send & receive experiments with broadcast packet here.

	General ↓ VLAN ⊕-♥ Driver ⊕ ♣ Diagnostics ↓ ↑ ♥ Send and Rece	Send and Receive This is a ping-pong test by broadcast. There should be two computers running this program on the same LAN, one stands as "Initiator" and another as "Responder".		
	→ Statistics → Cable → Wake On LAN → O About	Initiator Responder		
		Start Stop		
۰ III ا	۰ III ۲			

#### Statistics

This page show statistics of the selected network adapter, including throughput, number of good packets sent / received, and number of error packets sent / received.

Realtek PCIe GBE Fami	🗹 Statistics	
→ ULAN ↔ Diagnostics → Cable → Cable → Wake On LAN → About	Throughput(Send) Throughput(Receive) Throughput(Total) Packet Sent Packet Received Error(Receive)	4.89 Kbps 0.00 bps 4.89 Kbps 4966 0 480 0

#### Cable

This page estimates the length of the network (RJ-45) cable that is connected to the network adapter.

■ Realtek PCIe GBE Fami	Cable Cable Cable Status Description: Normal - The cable is normal or connected. Open - The cable is broken or disconnected. Shott - The cable is short. Link Speed: 1000			
	Pair	Length(m)	Status	Refresh
	1-2	0	Normal	
	3-6	0	Normal	
	4-5	0	Normal	
	7-8	0	Normal	
				_

**Note:** *This feature is not supported on the TEG-ECSFP.* 

#### Wake On LAN

This page provides two ways for the user to wake up a computer in standby or hibernate mode via the selected network adapter. A computer can be woken up only if related configurations in BIOS and the network adapter are enabled.

Wealtek PCIe GBE Fami	Wake On LAN		
- ⓒ VLAN	To wake up a computer in suspend or sleep mode on LAN, please		
윤-일 Driver	select one of the following method and fill up the information about the		
한 Diagnostics	computer.		
→ Statistics → Cable → Wake On LAN → About	Ethernet Address     IP Address      Wake Up		

**Note:** This feature is not supported on the TEG-ECSFP.

## Limited Warranty

## **Technical Specifications**

## **TEG-ECTX**

#### Standards

- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3z
- IEEE 802.3ab

#### **Device Interface**

- 10/100/1000 Mbps Ethernet port
- PCI Express 1.1
- Standard profile bracket
- LED Indicators

#### **Supported OS**

- Windows 8.1, 8, 7, Vista, XP, Server 2003, 2000,
- Mac OS 10.4-10.7 (Intel-based)
- Linux 2.4, 2.6, 3.x

#### Data Rate

- Ethernet: 10 Mbps/20 Mbps (half/full-duplex)
- Fast Ethernet: 100 Mbps/200 Mbps (half/full-duplex)
- Gigabit: 2000 Mbps (full-duplex)

#### **Special Features**

- Power down and link down power savings
- Jumbo Frames up to 9 K
- IEEE 802.1Q VLAN tagging
- IEEE 802.1p Layer 2 priority tagging

- Preboot Execution Environment 2.1 (PXE)
- PCI Message Signaled Interrupt (MSI)
- Alert Standard Format 2.0 (ASF)
- SNMP v1 supported

#### Power

• Consumption: Max. 3.2 Watts

#### **Operating Temperature**

• 0-45 °C (32 - 113 °F)

#### **Operating Humidity**

• Max. 95% non-condensing

#### Dimensions

• 94 x 51 x 12 mm (3.7 x 2.0 x 0.5 in.)

#### Weight

• 52 g (1.8 oz.)

#### Certifications

- CE
- FCC

#### Warranty

• 3 year limited

## **TEG-ECSX**

#### Standards

- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.3
- IEEE 802.3u

- IEEE 802.3x
- IEEE 802.3z
- IEEE 802.3ab

#### **Device Interface**

- SC-type multi-mode fiber port
- PCI Express 1.1
- Standard profile bracket
- LED Indicators

#### **Supported OS**

- Windows 8.1, 8, 7, Vista, XP, Server 2003, 2000
- Mac OS 10.4-10.7
- Linux 2.4, 2.6, 3.x

#### Data Rate

• Gigabit: 2000 Mbps (full-duplex)

#### **Special Features**

- Power down and link down power savings
- Jumbo Frames up to 9 K
- IEEE 802.1Q VLAN tagging
- IEEE 802.1p Layer 2 priority tagging
- Preboot Execution Environment 2.1 (PXE)
- PCI Message Signaled Interrupt (MSI)
- Alert Standard Format 2.0 (ASF)
- SNMP v1 supported

#### Power

• Consumption: Max. 3.2 Watts

#### **Operating Temperature**

• 0-45 °C (32 - 113 °F)

#### **Operating Humidity**

• Max. 95% non-condensing

#### Dimensions

• 117.5 x 56 x 12 mm (4.6 x 2.2 x 0.5 in.)

#### Weight

• 52 g (1.8 oz.)

#### Certifications

- CE
- FCC

#### Warranty

• 3 year limited

## **TEG-ECSFP**

#### Standards

- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3z
- IEEE 802.3ab

#### **Device Interface**

- Mini-GBIC (SFP) slot
- PCI Express 1.1
- Standard profile bracket
- LED Indicators

#### Supported OS

- Windows 8.1, 8, 7, Vista, XP, Server 2003, 2000
- Mac OS 10.4-10.7
- Linux 2.4, 2.6, 3.x

#### Data Rate

• Gigabit: 2000 Mbps (full-duplex)

#### **Special Features**

- Power down and link down power savings
- Jumbo Frames up to 9 K
- IEEE 802.1Q VLAN tagging
- IEEE 802.1p Layer 2 priority tagging
- Preboot Execution Environment 2.1 (PXE)
- PCI Message Signaled Interrupt (MSI)
- Alert Standard Format 2.0 (ASF)
- SNMP v1 supported

#### Power

• Consumption Max. 3.2 Watts

#### **Operating Temperature**

• 0-45 °C (32 - 113 °F)

#### **Operating Humidity**

• Max. 95% non-condensing

#### Dimensions

• 117.5 x 56 x 12 mm (4.6 x 2.2 x 0.5 in.)

#### Weight

• 52 g (1.8 oz.)

#### Certifications

- CE
- FCC

#### Warranty

• 3 year limited

## Troubleshooting

- Q: I inserted the Driver CD-ROM into my computer's CD-ROM Drive and the installation menu does not appear automatically. What should I do? Answer:
  - For Windows 7, if the installation menu does not appear automatically, click on the Windows Icon on the bottom left hand corner of the screen,, click the "Search programs and files" box, and type D:\Autorun.exe, where "D" in "D:\Autorun.exe" is the letter assigned to your CD-ROM Drive, and then press the ENTER key on your keyboard
  - For Windows Vista, if the installation menu does not appear automatically, click Start, click the Start Search box, and type D:\Autorun.exe where "D" in "D:\autorun.exe" is the letter assigned to your CD-ROM Drive, and then press the ENTER key on your keyboard.
  - 3. For Windows 2000/XP, if the installation menu does not appear automatically, click **Start**, click **Run**, and type

**D:\Autorun** where "**D**" in "D:\Autorun.exe" is the letter assigned to your CD-ROM Drive, and then press the ENTER key on your keyboard.

#### Q: Windows does not recognize my new hardware. What should I do?

- 1. First, verify if your computer meets the system requirement on **Technical Specification section**.
- 2. Second, access your device manager to make sure the adapter is installed properly.
  - To access the device manager on Windows 8/7/ Vista, right-click Computer, click Properties and then click Device Manager.
  - To access the device manager on Windows XP, right-click My Computer, click Properties, click the Hardware tab, and then click Device Manager
- 3. Third, if the device manager fails to recognize the presence of a new network adapter, verify that the network adapter is firmly seated in the PCIe slot.

Q: Windows recognizes my new hardware, but I'm unable to connect to my Network. What should I do? 1. Make sure that the network device that is connected to the TEG-xxx adapter is Gigabit.

- 2. There might be a problem with the fiber cable connection. Make sure that you have the fiber cable connected correctly as describe on the **Fiber Cable** section.
- 3. Another possible problem may be that the network device such as Fiber Converter is not functioning properly. Please confirm the power for the devices are connected and functioning properly.

# Q: Windows has automatically installed drivers, why do I need to install the drivers from the CD-ROM?

1. Windows has built-in drivers. However, the CD-ROM has the latest drivers.

#### Q: What is the maximum distance that is supported by the adapter?

- 1. Multi-Mode Fiber Optic Cable 50/125  $\mu m$  up to 550 m 62.5/125  $\mu m$  up to 220 m
- 2. Single- Mode fiber optic cable 9/125 μm up to 80 m

#### **Limited Warranty**

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

TEG-ECSX/TEG-ECTX/TEG-ECSFP - 3 Years Warranty

AC/DC Power Adapter, Cooling Fan, and Power Supply carry 1 year warranty.

If a product does not operate as warranted during the applicable warranty period, TRENDnet shall reserve the right, at its expense, to repair or replace the defective product or part and deliver an equivalent product or part to the customer. The repair/replacement unit's warranty continues from the original date of purchase. All products that are replaced become the property of TRENDnet. Replacement products may be new or reconditioned. TRENDnet does not issue refunds or credit. Please contact the point-of-purchase for their return policies.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

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2014/28/3

# TRENDNET®

# Product Warranty Registration

Please take a moment to register your product online. Go to TRENDnet's website at http://www.trendnet.com/register

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