TEG-S18TXE

User's Guide

Version 10.19.2005
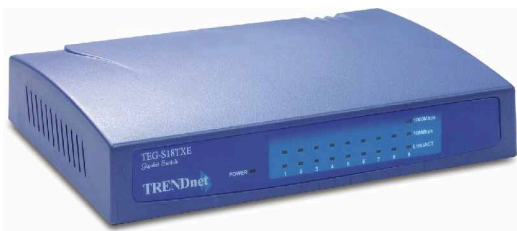
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English UG
1. Introduction

This section describes the features of the 8-Port 1000BASE-T Gigabit Ethernet Switch.

<u>Features</u>

The 8-Port 1000BASE-T Gigabit Ethernet Switch was designed for easy installation and high performance in an environment where traffic on the network and the number of users increase continuously.

- 8 1000BASE-T Gigabit Ethernet ports

- Supports Auto-Negotiation for speed and duplex mode

- Supports Auto-MDIX for each port

- Support Full/Half duplex transfer mode for 10 and 100Mbps

- Support Full duplex transfer mode for 1000Mbps

- Full wire speed reception and transmission

- Store-and-Forward switching method

- Supports 4K absolute MAC addresses

- Supports 128K Bytes RAM for data buffering

- Extensive front-panel diagnostic LEDs

- IEEE 802.3x flow control for full-duplex

- Back pressure flow control for half-duplex

2. Unpacking and Setup

This chapter provides unpacking and setup information for the Switch.

<u>Unpacking</u>

Open the shipping carton of the Switch and carefully unpack its contents. The carton should contain the following items:

TEG-S18TXE	User's Guide
Four rubber feet with adhesive backing	One external power adapter

If any item is found missing or damaged, please contact your local reseller for replacement.

<u>Setup</u>

The setup of the Switch can be performed using the following steps:

- Install the Switch in a fairly cool and dry place. See Technical Specification for the acceptable operation temerature and humidity ranges.

- Install the Switch in a site free from strong electromagnetic source,vibration, dust,and direct sunlight.

- Leave at least 10cm of space at the left and right hand side of the Switch for ventilation.

- Visually inspect the DC power jack and make sure that it is fully secured to the power adapter.

3. Identifying External Components

This chapter describes the front panel, rear panel and LED indicators of the Switch

Front Panel

The front panel of the Switch consists of eight 1000BASE-T ports and LED indicators.
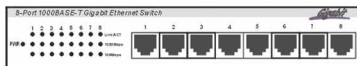
Front panel view of the Switch

1000BASE-T Ports:
Eight Gigabit Ethernet ports of 10/100/1000Mbps Auto-Negotiation interface.

LED Indicators
Comprehensive LED indicators display the conditions of the Switch and status of the network. A description of these LED indicators follows (see LED Indicators).

Rear Panel

The rear panel of the Switch consists of an DC power connector. The following figure shows the rear panel of the Switch.


DC Power Jack

Rear panel view of the Switch

DC Power Jack:
Power is supplied through an external AC power adapter. Check the technical specification section for information about the AC power input voltage.

LED Indicators

The LED indicators of the Switch include Power, Link/Act, 1000Mbps and 100Mbps. The following shows the LED indicators for the Switch along with an explanation of each indicator.
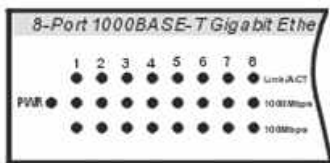
Power:

- This indicator lights green when the Switch is receiving power, otherwise, it is off.

Link/ACT:

- These LED indicators are lighted up when there is a secure connection (or link) to the desired port. The LED indicators blinking whenever there is reception or transmission (i.e. ActivityACT) of data occurring at a port.

1000Mbps:

- These LED indicators are lighted up when there is a secure connection (or link) to 1000Mbps Gigabit Ethernet device at the desired port.

100Mbps:

- These LED indicators are lighted up when there is a secure connection (or link) to 100Mbps Fast Ethernet device at the desired port.

When the connection (or link) is 10Mbps, both of 1000Mbps and 100Mbps LED indicators are off.

Română
1. Introducere

Aceasta sectiune descrie caracteristicile switch-ului cu 8 porturi 1000BASE-T Gigabit Ethernet.

Caracteristici

Switch-ul cu 8 porturi 1000BASE-T Gigabit Ethernet a fost creat pentru o instalare rapida si performanta inalta intr-un mediu unde traficul din retea si numarul de utilizatori creste continuu.

- 8 porturi 1000BASE-T Gigabit Ethernet

- Suporta Auto-Negociere pentru pentru viteza si mod duplex

- Suporta Auto-MDIX pentru fiecare port

- Suporta mod de transfer Full/Half duplex pentru 10 si 100Mbps

- Suporta mod de transfer Full duplex pentru 1000Mbps

- Receptie si transmisie Full wire speed

- Metoda de comutare Store-and-Forward

- Suporta adrese 4K absolut MAC

- Suporta 128KBytes RAM pentru buffer date

- Panou frontal cu LED-uri de diagnosticare extensiva

- Control trafic IEEE 802.3x pentru full-duplex

- Control trafic pentru half-duplex

2. Despachetare si instalare

Acest capitol ofera informatii despre despachetare si instalare a switch-ului.

Despachetare

Deschideti cartonul switch-ului si despachetati cu grija continutul. Cutia ar trebui sa contina urmatoarele obiecte:

TEG-S18TXE	Acest ghid de utilizare
Patru picioruse de cauciuc cu adeziv	Un adaptor extern de alimentare

Daca vreunul dintre obiecte lipseste sau e deteriorat, va rugam sa contactati vanzatorul local pentru inlocuire.

Instalare

Instalarea switch-ului poate fi facuta urmand acesti pasi:

- Instalati switch-ul intr-un loc racoros si uscat. Vedeti Specificatii tehnice pentru temperatura de operare si gradul de umiditate acceptabile.

- Instalati switch-ul intr-un loc fara surse electromagnetice puternice,vibratii, praf si lumina solara directa.

- Lasati cel putin 10cm de spatiu pe lateralele switch-ului pentru ventilare.

- Inspectati vizual mufa alimentatorului DC si asigurati-va ca este bine fixat in adaptorul de alimentare.

3. Identificare componente externe

Acest capitol descrie panoul frontal, cel dorsal si indicatorii LED ai switch-ului

Panoul frontal

Panoul frontal al switch-ului consista din 8 porturi 1000BASE-T si indicatoare LED.

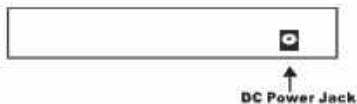Vedere panou frontal al switch-ului

Porturi 1000BASE-T
Interfata cu opt porturi Gigabit Ethernet de 10/100/1000Mbps Auto-Negociere.

Indicatori LED
Indicatorii LED afiseaza situatia switch-ului si starea retelei. O descriere a acestor indicatoare LED poate fi gasita mai jos (vedeti Indicatori LED).

Panoul dorsal

Panoul dorsal al switch-ului contine conectorul pentru adaptorul de alimentare DC. Urmatoarea figura arata panoul dorsal al switch-ului.


Vedere panou dorsal al switch-ului

Conector alimentare DC
Energia este furnizata printr-un adaptor extern de alimentare AC. Verificati sectiunea Specificatii tehnice pentru informatii despre voltaj.

Indicatori LED

Indicatorii LED ai switch-ului includ Power, Link/Act, 1000Mbps si 100Mbps. In cele ce urmeaza se arata indicatorii LED pentru switch impreuna cu o explicatie pentru fiecare indicator.
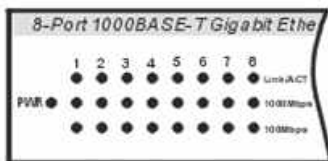
Power:
- Acest indicator lumineaza verde cand switch-ul este alimentat, altfel, este stins.

Link/ACT:
- Acesti indicatori LED se aprind cand exista o conexiune sigura (sau legatura) la portul dorit. Indicatoarele LED lumineaza intermitent de fiecare data cand exista o receptie sau transmitere (ex: ActivitateAct) de date pe un port.

1000Mbps:
- Acesti indicatori LED se aprind cand exista o conexiune sigura (sau legatura) la dispozitivul 1000Mbps Gigabit Ethernet pe portul dorit.

100Mbps:
- Acesti indicatori LED se aprind cand exista o conexiune sigura (sau legatura) la dispozitivul 100Mbps Fast Ethernet pe portul dorit.

Cand conexiunea (sau legatura) este 10Mbps, ambele LED-uri de la 1000Mbps si 100Mbps LED sunt stinse.

Technical Specifications

General	
Standards:	IEEE 802.3ab 1000BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3 10BASE-T IEEE 802.3x Flow Control
Protocol:	CSMA/CD
Rata Transfer Date:	Ethernet: 10 Mbps (half-duplex), 20 Mbps (full-duplex) Fast Ethernet: 100 Mbps (half-duplex), 200 Mbps (full-duplex) Gigabit Ethernet: 2000 Mbps (full duplex)
Topology:	Star
Network Cables:	Ethernet: 2-pair UTP Cat. 3,4,5, Unshield Twisted Pair (UTP)Cable Fast Ethernet: 2-pair UTP Cat. 5, Unshield Twisted Pair (UTP)Cable Gigabit Ethernet: 4-pair UTP Cat. 5, Unshield Twisted Pair (UTP)Cable
Number of Ports:	Eight (8) 1000BASE-T Gigabit Ethernet ports

Physical and Environmental	
DC inputs:	5V 2.4A
Power Consumption:	10.5 watts maximum
Operating Temperature:	0° ~ 40° C
Storage Temperature:	-10°C ~ 55°C
Humidity:	5% ~ 95% RH, non-condensing
Dimensions:	190(W) × 120(D) × 38(H) mm
Certification:	FCC Class A, CE Marking Class A, VCCI Class A

Performance	
Transmission Method:	Store-and-forward
RAM Buffer:	128K Bytes per device
Filtering Address Table:	4K MAC address per device
Packet Filtering/ Forwarding Rate:	Full wire speed
MAC Address Learning:	Self-learning, auto-aging

FCC Warning
This equipment has been tested and found to comply with the regulations for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user's guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

CE Mark Warning
This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

VCCI Warning
This is a product of VCCI Class A Compliance.

注意
　この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づく第一種情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

$$C \, C \, F \, C \quad \boxed{VCI}$$

Certifications
This equipment has been tested and found to comply with FCC and CE Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.
(2) This device must accept any interference received. Including interference that may cause undesired operation.

FC CE

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

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TRENDware 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.

  Wired Products - 5 Years Warranty

If a product does not operate as warranted above during the applicable warranty period, TRENDware shall, at its option and expense, repair the defective product or part, deliver to customer an equivalent product or part to replace the defective item, or refund to customer the purchase price paid for the defective product. All products that are replaced will become the property of TRENDware. Replacement products may be new or reconditioned.

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Governing Law: This Limited Warranty shall be governed by the laws of the state of California.

AC/DC Power Adapter, Cooling Fan, and Power Supply carry a 1 Year Warranty

TRENDnet

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