

TEG-S80TXD

User's Guide

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1. Introduction

This section describes the features of the 8-Port 10/100/1000Mbps Gigabit Ethernet Switch.

Features

The 8-Port 10/100/1000Mbps 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 x 10/100/1000Mbps Auto-negotiation Gigabit Ethernet ports
- Auto-MDIX for each port
- Supports Full/Half duplex transfer mode for 10 and 100Mbps
- Supports Full duplex transfer mode for 1000Mbps
- Wire speed reception and transmission
- Store-and-Forward switching method
- Supports 8K entries absolute MAC address table
- Supports 256K 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
- Optional Rack-mount Kit for 19" standard rack

2. Unpacking and Setup

This chapter provides unpacking and setup information for the Switch.

Unpacking

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



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

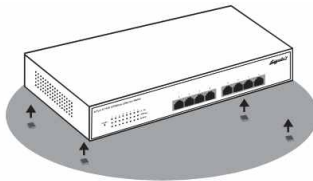
Setup

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

- The surface must support at least 5 kg.
- The power outlet should be within 1.82 meters (6 feet) of the device.
- Visually inspect the power cord and see that it is secured fully to the AC power connector.
- Make sure that there is proper heat dissipation from and adequate ventilation around the Switch. Do not place heavy objects on the Switch.

Desktop Installation

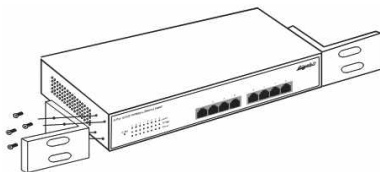
When installing the Switch on a desktop or shelf, the rubber feet included with the device must be attached first. Attach these cushioning feet on the bottom at each corner of the device. Allow enough ventilation space between the device and the objects around it.



Gigabit Ethernet Switch installed on a Desktop or Shelf

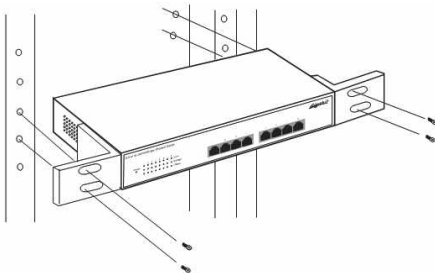
Rack Installation (optional)

The 8-Port 10/100/1000Mbps Gigabit Ethernet Switch can be mounted in an EIA standard size, 19-inch rack, which can be placed in a wiring closet with other equipment. To install, attach the mounting brackets on the Switch's front panel (one on each side) and secure them with the provided screws.



Attaching the mounting brackets to the Switch

Then, use the screws provided with the equipment rack to mount the Switch in the rack.



Installing the Switch on an equipment rack

Connecting Network Cable

The 8-Port 10/100/1000Mbps Gigabit Ethernet Switch supports eight 10/100/1000Mbps Gigabit Ethernet ports. These ports support half or full duplex mode when running in 10Mbps or 100Mbps. They support full duplex while running in 1000Mbps.

These ports are Auto-MDIX type port. They can auto transform to MDI-II or MDI-X medium type, so you can just make an connection with a straight or crossover cable.

AC Power

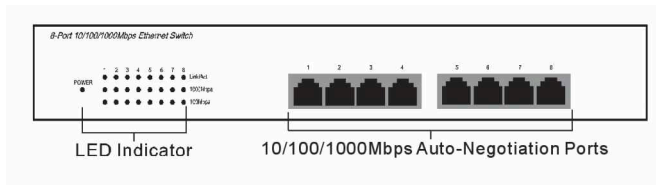
The 8-port Gigabit Ethernet Switch can be used with 100~240V AC, 50~60 Hz power source. The power supply of the Switch will adjust to the local power specification automatically and may be turned on without having any or all LAN segment cables connected.

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

- Eight Gigabit Ethernet ports of 10/100/1000Mbps Auto-Negotiation interface.
- 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 AC power connector. The following figure shows the rear panel of the Switch.

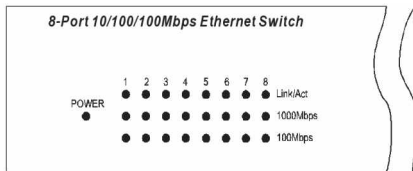


Rear panel view of the Switch

- AC Power Connector: This is a three-pronged connector that supports the power cord. Plug in the female connector of the provided power cord into this connector, and the male into a power outlet. Supported input voltages range from 100~240V AC at 50~60 Hz.

LED Indicators

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



The Switch LED indicators

Power:

- This indicator lights green when the Switch is receiving power. It is off for no power.

Link/ACT:

- This LED indicator lights green when there is a valid connection (or link) to the port. The LED indicator blinks whenever there is reception or transmission (i.e. ActivityAct) of data at a port.

1000Mbps:

- This LED indicator lights green when there is a valid 1000Mbps Gigabit Ethernet connection (or link) to the port.

100Mbps:

- This LED indicator lights green when there is a valid connection (or link) to 100Mbps Fast Ethernet device at the port.

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

1. Introducere

Aceasta secțiune descrie caracteristicile Switchului cu 8 porturi 10/100/1000Mbps Gigabit Ethernet

Trasaturi

Switchul cu 8 porturi 10/100/1000Mbps Gigabit Ethernet a fost realizat în vederea unei instalări ușoare și unei performanțe ridicate, într-un mediu unde traficul în rețea și numărul utilizatorilor sunt într-o continuă creștere.

- 8 porturi x 10/100/1000Mbps Auto-negociere Gigabit Ethernet
- Auto-MDIX pentru fiecare port
- Suportă mod de transfer Full/Half duplex pentru 10 și 100Mbps
- Suportă mod de transfer Full duplex pentru 1000Mbps
- Viteza la nivel de "fir" pentru recepție și transmitere
- Metoda switching Store-and-Forward
- Suportă intrări 8K table adrese absolute MAC
- Suportă 256K Bytes RAM pentru buffering la informație
- LED-uri pentru diagnostic pe panoul frontal
- Control al fluxului de tip IEEE 802.3x pentru full-duplex
- Control al fluxului de presiune pentru half-duplex
- Kit Rack optional pentru rack standard 19" .

2. Despachetare si instalare

Acest capitol va puna la dispozitie informatii cu privire la despachetarea Switchului si instalarea sa.

Despachetarea

Desfaceti cutia in care produsul a fost livrat si despachetati cu grija componentele. Cutia respectiva trebuie sa contina urmatoarele:



Daca unul din itemuri lipseste sau este avariat , va rugam sa contactati vanzatorul in vederea inlocuirii produsului.

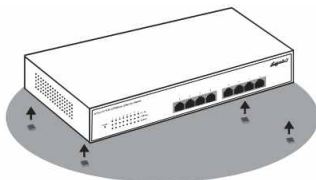
Setup

Setupul Switchului poate fi dus la bun sfarsit folosind urmatoorii pasi:

- Suprafata trebuie sa suporte cel putin 5 Kg.
- Priza trebuie sa se afle la o distanta de cel mult 1.82 metri de aparat.
- sigurati-va ca respectivul cablu este bine atasat conectorului de alimentare.
- Asigurati-va ca exista posibilitatea unei dispersii cum se cuvine a caldurii si o ventilatie adecvata in jurul Switchului. Nu asezati obiecte grele pe .

Instalarea Desktop

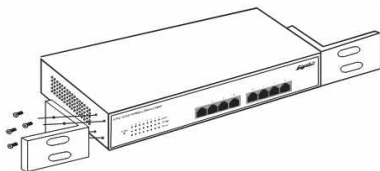
In momentul instalarii Switchului pe un sau pe un raft, picioarele din caucioc livrate odata cu Switchul trebuiesc fixate mai inati. Atasati aceste picioare pe partea de jos , in fiecare colt al Switchului. Permeteti indeajuns de mult spatiu pentru ventilatie intre aparat si obiectele din jurul sau.



Switch Gigabit Ethernet instalat pe birou sau raft

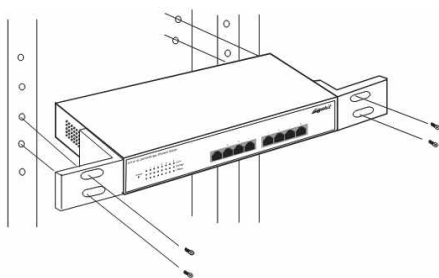
Instalare Rack (optional)

Switchul 10/100/1000Mbps Gigabit Ethernet cu 8 porturi poate fi montat la marimea standard EIA a unui rack de 19 inci, ce poate fi asezat intr-un dulap impreuna cu restul de fire si echipament. Pentru instalare, atasati clamele de montare pe panoul frontal al Switchului (cate una pe fiecare parte) si fixati-le cu suruburile livrate odata cu produsul .



Atasarea clamelor de montare la Switch

Apoi, folositi suruburile respective pentru a monta Switchul in rack.



Instalarea Switchului in rack

Conectarea Cablului de Retea

Switchul cu 8 porturi 10/100/1000Mbps Gigabit Ethernet suporta opt porturi 10/100/1000Mbps Gigabit Ethernet. Aceste porturi suporta moduri half (jumătate) sau full duplex, la rulare la 10Mbps sau 100Mbps. Acestea suporta full duplex la 1000Mbps.

Porturile sunt de tipul Auto-MDIX. Se pot transforma automat in tip mediu MIDI-II sau MIDI-x, asadar puteti realize o conexiune cu un cablu fie direct, fie incrucisat.

AC Power (Alimentare)

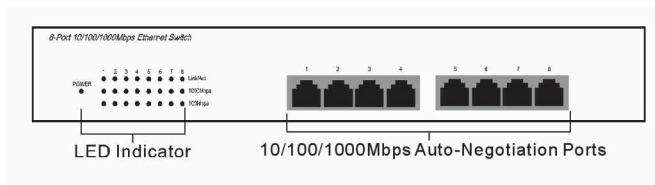
Acest Switch poate fi folosit la o sursa de alimentare 100~240V , 50~60 Hz . Sursa de alimentare a Switchului se va ajusta automat la specificatiile locale de energie si poate fi pornit in absenta conectarii vreunuia dintre .

3. Identificarea componentelor externe

Acest capitol descrie panoul din spate si cel frontal, precum si LEDurile impreuna cu indicatorii acestora.

Panoul Frontal

Panoul frontal consta in 8 porturi de tip 1000BASE-T LEDuri cu indicatori.



Vedere asupra panoului frontal al Switchului

- Opt porturi Gigabit Ethernet de 10/100/1000Mbps interfata Auto-Negociere.
- Indicatori LED usor de inteles arata conditiile Switchului si statusul retelei. O descriere a acestor indicatori LED urmeaza. (vezi indicatori LED).

Panou Spate

Acest panou consta intr-un conector AC de alimentare. Figura de mai jos ilustreaza acest lucru.

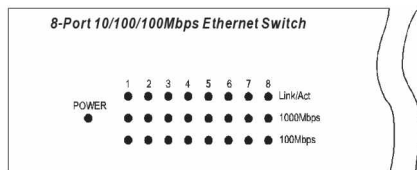


Panoul din spate al Switchului

- Conector alimentare: Acesta este conectorul ce suporta cablul de alimentare. Conectati cablul de alimentare in conector , iar capatul celalalt conectati-l la o priza. Voltaj permis: 100~240V AC la 50~60 Hz.

Indicatori LED

Indicatorii LED ai Switchului : Power, Link/Act, 1000Mbps si 100Mbps.
Urmatoarea imagine ilustreaza Indicatorii LED ai Switchului , impreuna cu explicatiile pentru fiecare indicator.



Indicatorii LED ai Switchului

Power:

- Acest indicator se aprinde de culoare verde cand Swichului receptioneaza energie. Sta OFF cand nu este curent.

Link/ACT:

- Acest indicator se aprinde de culoare verde cand exista o conexiune valida.(sau link) la port. Indicatorul LED clipeste in cazul fiecarei receptii sau transmisii (ActivityAct) de informatii la port.

1000Mbps:

- Acest indicator LED se aprinde de culoarea verde cand exista o conexiune (sau link) la port de tip 1000Mbps Gigabit Ethernet

100Mbps:

- Acest indicator se aprinde de culoarea verde cand exista o conexiune (sau link) port .

Daca conexiunea (sau linkul) este de 10Mbps, atat indicatorul de 1000Mbps cat si cel de 100Mbps sunt oprite.

Technical Specifications

General	
Standards:	IEEE 802.3ab 1000BASE-T IEEE 802.3u 100BASE-TX IEEE 820.3 10BASE-T
Protocol:	CSMA/CD
Rata Transfer Date:	<u>Ethernet</u> : 10 Mbps (half-duplex), 20 Mbps (full-duplex) <u>Fast Ethernet</u> : 100 Mbps (half-duplex), 200 Mbps (full-duplex) <u>Gigabit Ethernet</u> : 2000 Mbps (full duplex)
Topology:	Star
Network Cables:	<u>Ethernet</u> : 2-pair UTP/STP Cat. 3,4,5 Cable <u>Fast Ethernet</u> : 2-pair UTP/STP Cat. 5 Cable <u>Gigabit Ethernet</u> : 4-pair UTP/STP Cat. 5 Cable
Number of Ports:	Eight(8) 10/100/1000Mbps Auto-Negotiation and Auto-MDIX ports

Physical and Environmental

DC inputs:	100 ~ 240V AC Universal, 50/60 Hz
Power Consumption:	20 watts maximum
Operating Temperature:	0° ~ 40° C
Storage Temperature:	-10°C ~ 55°C
Humidity:	5% ~ 95% RH, non-condensing
Dimensions:	280(W) × 180(D) × 44(H) mm
Weight:	1.62Kg
EMI:	FCC Class A, CE Mark Class A, VCCI Class A
Safety:	cUL, TUV/GS

Performance

Transmission Method:	Store-and-forward
RAM Buffer:	256K Bytes per device
Filtering Address Table:	8K MAC address per device
Packet Filtering/ Forwarding Rate:	10Mbps Ethernet: 14,880 pps 100Mbps Fast Ethernet: 148,800 pps 1000Mbps Gigabit Ethernet: 1,488,000 pps
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。



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.



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.

Limited Warranty

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.

TRENDware 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 TRENDware 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.

Warranty service may be obtained by contacting TRENDware office within the applicable warranty period for a Return Material Authorization (RMA) number, accompanied by a copy of the dated proof of the purchase. Products returned to TRENDware must be pre-authorized by TRENDware with RMA number marked on the outside of the package, and sent prepaid, insured and packaged appropriately for safe shipment.

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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



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Product Warranty Registration

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

TRENDnet Technical Support

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