



# **S8TXA**

## **8-Port 10/100BASE-TX Compact Switch**



## **User Guide**

**33673 Rev. B**

## Regulatory Approvals

### FCC Warning

This Equipment has been tested and found to comply with the limits 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 in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### 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.

S8TXA 8-Port 10/100BASE-TX Compact Switch User Guide, 33673 Rev. B

## Record of Revisions

Rev.	Date	Description
A	12/10/15	Initial release.
B	2/2/18	Add KCC certification (KN32 and KN35) and DoC.

## Contact Us

For prompt response when calling for service information, please have the following information ready:

- Product serial number and revision
- Date of purchase
- Vendor or place of purchase

**Technical Support:** Technical support is available 24-hours a day  
 US and Canada: 1-800-260-1312  
 International: 00-1-952-941-7600

### Main Office

tel: +1.952.941.7600 | toll free: 1.800.526.9267 | fax: 952.941.2322  
[sales@transition.com](mailto:sales@transition.com) | [techsupport@transition.com](mailto:techsupport@transition.com) | [customerservice@transition.com](mailto:customerservice@transition.com)

### Address

Transition Networks  
 10900 Red Circle Drive  
 Minnetonka, MN 55343, U.S.A.

**Web:** <https://www.transition.com>

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# 1. Introduction

The **S8TXA** 8-Ports Fast Ethernet Switch offers auto-negotiation 10/100 Base-T Fast Ethernet that can significantly improve your network backbone performance. The S8TXA features Auto MDI/MDIX function for each port. Besides, it also features a store-and-forward switching and can auto-learn and store source address on a 2K MAC address table. This Switch is fit into any enterprise level network to act as an exit to the backbone switch.

## Features

- Complies with IEEE 802.3, 802.3u, standards
- IEEE802.3x flow control for full duplex and back pressure flow control for half duplex
- Supports Auto-Negotiation auto MDI/MDI-X crossover detecting and auto correction
- IEEE802.3az energy efficient Ethernet function
- 1.6 Gbps back-plane
- 2K MAC address table
- Switching fabric: 1.6Gbps
- Support 9Kbytes Jumbo Frame

## Package Contents

- One S8TXA Switch
- One Documentation Postcard
- Four Sponges
- Four Rubber Feet
- One Wall-Mount Kit

				
8-Port Switch	Postcard	Sponges	Rubber Feet	Wall-Mount Kit

Compare the contents of your S8TXA package with the checklist above. If any item is missing or damaged, contact your local dealer for service. Please save the package materials for possible future use.

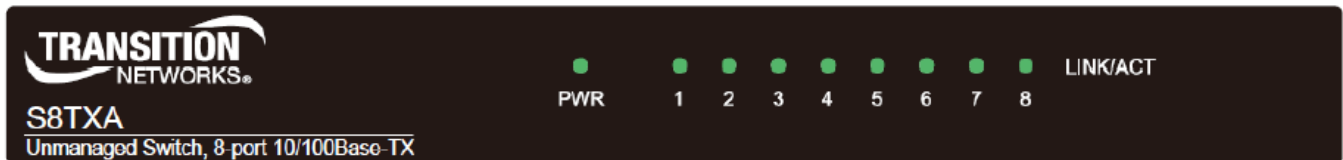
## 2. Hardware Description

This Section describes the hardware of the S8TXA switch.

The S8TXA physical dimensions are 193mm x 84mm x 26 mm (L x W x H).

### Front Panel

The front panel of the S8TXA front panel includes LED-indicators (Link/Activity) for each Fast Ethernet port and power LED-indicator for unit, as shown below.



S8TXA Front Panel

### Rear Panel

The rear panel of the 8-port Fast Ethernet Switch consists of eight auto-negotiation 10/100 Mbps Ethernet RJ-45 connectors (support Automatic MDI/MDIX function).

**RJ-45 Ports (Auto MDI/MDIX):** 8 port auto-negotiation 10/100/1000 Mbps Ethernet RJ-45 connectors.

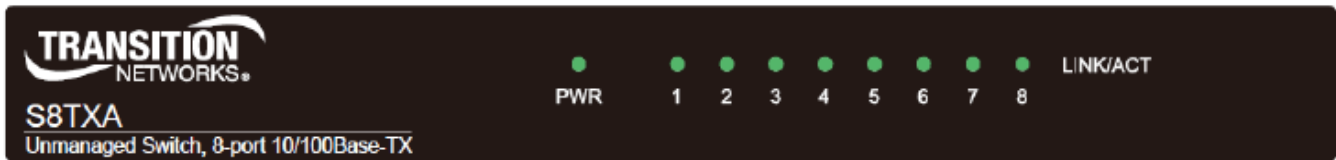
Auto MDI/MDIX means that you can connect to another Switch or workstation without changing non-crossover or crossover cabling.



S8TXA Rear Panel

## LED Indicators

The LED Indicators give a real-time indication of system operating statuses. There is one LED indicator (LNK/ACT) for each Fast Ethernet port and one Power LED for the device, as shown below.



S8TXA LED Indicators

## LED Indicator Descriptions

The following table provides descriptions of LEDs status and their meaning.

<u>LED</u>	<u>Status</u>	<u>Description</u>
PWR	Green	Power On.
	Off	Power is not connected.
LINK/ACT	Orange	The port is operating at the speed of 100Mbps.
	Blinking	The port is receiving or transmitting data.
	Off	No device attached or in 10Mbps mode

### 3. Quick Installation

- The 8-Port Switch should be placed in a well-ventilated room with proper temperature and humidity.
- Do not place the unit near water.
- The maximum distance between the ports to the standard network interface is 100 meters.
- For desktop installation, ensure the surface is clean, smooth, level and sturdy. Apply self-adhesive rubber feet to the bottom of the switch near the corners.
- For wall installation, place two screws securely into the wall. Slide the cross recesses on the bottom of the 8-Port Switch onto the screws.
- For mounting the 8-Port switch on a metal surface, install magnets as shown in instructions and apply to surface.
- Visually check that the power cord is not damaged. Plug the female end of the cord into the rear of the 8-Port Switch and the male end (power converter) into a power outlet.
- Do not plug a phone jack connector into any RJ-45 port. This may cause damage. Use only twisted-pair cables with RJ-45 connectors that conform to FCC standards.

#### ***Power On***

Connect the cord of power to the power socket on the rear panel of the Switch.

The other side of power cord connects to the power outlet.

Check the power (**PWR LED**) indicator on the upper panel to see if power is properly supplied.

## 4. Technical Specifications

The following table provides the Switch technical specifications.

<b>Standards</b>	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3x Flow Control and Back-pressure
<b>Protocol</b>	CSMA/CD
<b>Technology</b>	Store and Forward switching architecture
<b>Transfer Rate</b>	14,880 pps for 10Mbps 148,800 pps for 100Mbps
<b>Connectors</b>	RJ-45; Auto-MDIX on all ports
<b>MAC Address</b>	2K Mac address table
<b>Memory Buffer</b>	128K bytes memory buffer
<b>Jumbo Frame</b>	Supports 9K bytes packet size
<b>Backplane</b>	1.6Gbps
<b>Network Cable</b>	10BASE-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100BASE-TX: 2-pair UTP/STP CAT. 5 cable EIA/TIA-568 100-ohm (100m)
<b>LEDs</b>	Per port: Link/Activity Per unit: Power
<b>Power Supply</b>	AC 110~240V, 50/60Hz
<b>Power Consumption</b>	1.72 Watt (maximum)
<b>Operation Temperature</b>	0 deg. C to 40 deg. C (32 deg. F to 104 deg. F)
<b>Operation Humidity</b>	10% to 95% (Non-condensing)
<b>Dimensions</b>	193mm x 84mm x 26 mm (L x W x H)
<b>EMI</b>	Compliance with FCC Class B, CE, KN32
<b>EMS</b>	KN35
<b>Warranty</b>	Limited Lifetime Warranty



**Declaration of Conformity**

***Declaration of Conformity***

Transition Networks, Inc.

Manufacturer's Name

10900 Red Circle Drive, Minnetonka, Minnesota 55343 U.S.A.

Manufacturer's Address

*Declares that the products:*  
**S8TXA**

*Conform to the following Product Regulations:*

FCC Part 15 Subpart B, Class B, ANSI C63.4:2014 and ISED ICES-003 Issue 6

EN 55032-2012 / AC:2013, Class B

EN 61000-4-2:2008, EN 61000-4-3:2006 + A1:2007 + A2:2010, EN 61000-4-4:2012, EN 61000-4-6:2013, EN 61000-4-8:2009

With the technical construction on file at the above address, this product carries the  
**CE Mark**

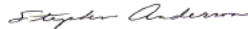
I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standards(s).

Minnetonka, Minnesota

Place

July 19, 2017

Date



Signature

Stephen Anderson

Full Name

Vice President of Engineering

Position

28141B



**Transition Networks**

**Technical Support:** Technical support is available 24-hours a day

US and Canada: 1-800-260-1312

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