

swi**sonic**

Stage Switch POE
network switch



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1 General information

This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under www.thomann.de.

1.1 Further information

On our website (www.thomann.de) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

Instructions

The individual steps of an instruction are numbered consecutively. The result of a step is indented and highlighted by an arrow.

Example:

1. ▶ Switch on the device.
2. ▶ Press *[Auto]*.
 - ⇒ Automatic operation is started.
3. ▶ Switch off the device.

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is used to connect terminal devices to each other to form a local area network or to connect to the Internet. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.



DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

Do not use the device if covers, protectors or optical components are missing or damaged.



DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



NOTICE!

Risk of fire

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.



NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

**NOTICE!****Operating conditions**

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures).

Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.



NOTICE!

Possible staining

The plasticiser contained in the rubber feet of this product may possibly react with the coating of your parquet, linoleum, laminate or PVC floor and after some time cause permanent dark stains.

In case of doubt, do not put the rubber feet directly on the floor, but use felt-pad floor protectors or a carpet.

3 Features

- 19" gigabit network switch with PoE, unmanaged
- 16 × 10/100/1000BASE-T Gigabit Ethernet Port
 - 8 × lockable RJ-4 port
 - 8 × RJ-45 port with PoE (max. 15 W)
- Auto MDI/MDIX
- Flow Control
- Auto-negotiation
- Lockable Power Twist in and output
- Supports the IEEE standards IEEE 802.3, IEEE 802.3u, IEEE 802.3ab and IEEE 802.3x
- 19" rack-mountable (1 RU)

4 Installation and starting up

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

1. ➤ Connect the terminal devices to the network switch.

The following network cables are suitable for establishing network connections between the network switch and the terminal device:

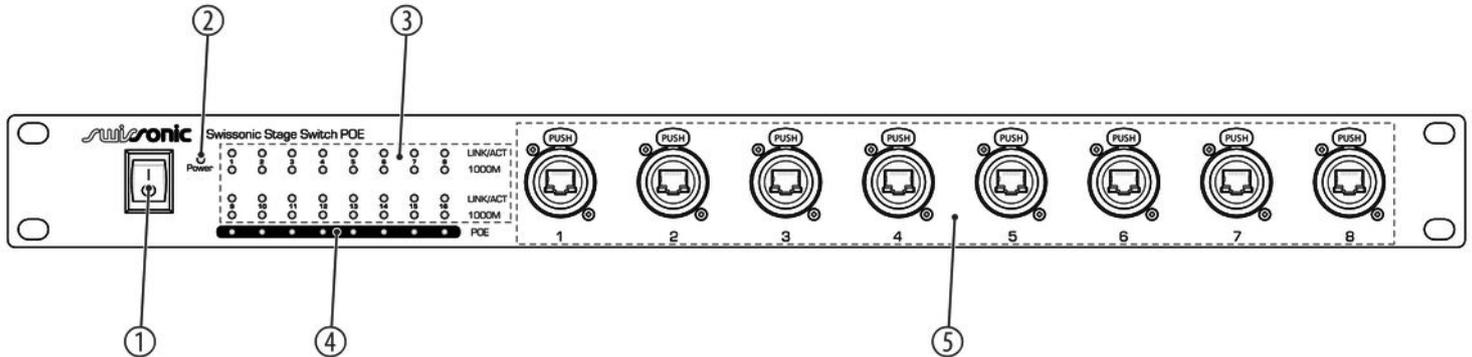
Transmission standard	Network cable category
10Base-T	3, 4, or 5 (max. 100 m)
100Base-Tx	5, 5e (max. 100 m)
1000Base-T	5, 5e, or higher (max. 100 m)

2. ➤ Connect the network switch to the power supply.

3. ▶ Turn on the network switch using the main switch.
 - ⇒ Die *[POWER]* LED lights up red. The *[LINK/ACT]* and *[1000M]* LEDs briefly light up green as a self-test.

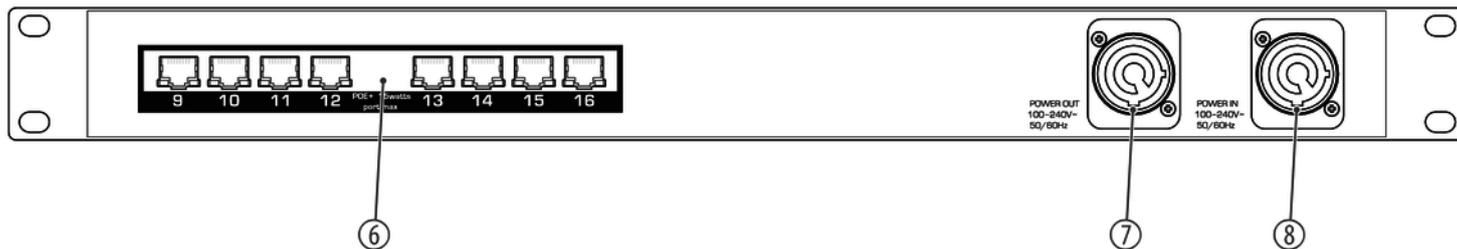
5 Connections and controls

Front panel



1	Main switch. Turns the device on and off.	
2	Indicator LED. Lights up red when the device is connected to the power supply and turned on.	
3	Network and transmission status LED for each port	
	<i>[LINK/ACT] [1]...[16]</i>	Lights up green: Establishing connection with an terminal device Flashes green: Data transmission active
	<i>[1000M] [1]...[16]</i>	Lights up green: 1000 Mbps connection
4	PoE status LED for each port	
	<i>[POE] [1]...[16]</i>	Lights up green: PoE usage
5	<i>[1]...[8]</i>	Lockable RJ-45 port

Rear panel



6	<i>[9]...[16]</i> RJ-45 port with PoE function
7	<i>[POWER OUT]</i> Lockable output socket (Power Twist) for powering a connected device.
8	<i>[POWER IN]</i> Lockable input socket (Power Twist) for connection to the power supply.

6 Cleaning

Clean the unit with a dry, soft, lint-free cloth. Stubborn dirt can be removed with a slightly dampened cloth.

Never use cleaners containing alcohol or thinner.

7 Technical specifications

Compatible IEEE standards		IEEE 802.3
		IEEE 802.3u
		IEEE 802.3ab
		IEEE 802.3x
Input connections	Voltage supply	Lockable input socket (Power Twist)
	Network interfaces for connecting external devices	8 × lockable RJ-45 port 10/100/1000 Mbps Auto-negotiation
		8 × RJ-45 port with PoE function 10/100/1000 Mbps Auto-negotiation
Output connections	Voltage supply	Lockable output socket (Power Twist) for powering a connected device.

Transmission mode	Store-and-forward
Number of possible MAC addresses	8000 auto-learning
PoE standard	IEEE 802.3af
PoE output power of the supply per port	15.4 W
PoE output power at the end device per port	12.95 W
PoE output voltage	44 – 57 V $\overline{=}$
PoE output current operation	10 – 350 mA
Operating supply voltage	100 – 240 V \sim 50/60 Hz
Mounting properties	19 inch, 1 RU
Dimensions (W \times H \times D)	170 mm \times 43 mm \times 440 mm
Weight	2.15 kg

Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	50 %, non-condensing

Further information

Component type	Switch
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8 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.



