

# QSG TSW202

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This Wiki page contains the online version of the **Quick Start Guide (QSG)** for the **TSW202 managed switch**. Here you will find an overview of the various components on the front and back of a TSW202 device, hardware installation instructions, first login information, device specifications, and general safety information. It is highly recommended to acquaint yourself with the Quick Start Guide before using the device. You can also locate a printed version of the Quick Start Guide in the packaging box of your device.

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## Safety information

Before starting operating the device, please review recommendations and precautions to minimize the possibility of accidents. Safety precautions presented are supplementary and subject to the local safety regulations. When various operations are executed on the device, the user must fully follow the safety instructions and recommendations provided with the device.

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## General

### Technical specifications

Input voltage range	7-57 VDC
Max power consumption	8 W
Max PoE power budget at PSE	240 W*
Bundled accessories specifications**	
Power adapter	No accessories

\* PoE operates properly only when connected power supply outputs 44 V or higher voltage.

\*\* Order code dependant.

TSW202 must be used in compliance with any and all applicable national and international laws and with any special restrictions regulating the utilization of the communication module in prescribed applications and environments.

## PoE standards

















This device uses PoE alternative B.

## The difference between PoE alternative A and alternative B

### Alternative A:

802.3af and 802.3at Alternative A connection. The power sourcing equipment applies a positive voltage to pins 1-2 and a negative voltage to pins 3-6.



#### 802.3af/at Alternative A:















Pins at switch	T568A Color	T568B Color	10/100 Alternative A, mixed DC & data		1000 (1 gigabit) Alternative A, DC & bi-data	
Pin 1	 white/green stripe	 white/orange stripe	Rx +	DC +	TxRx A +	DC +
Pin 2	 green solid	 orange solid	Rx -	DC +	TxRx A -	DC +
Pin 3	 white/orange stripe	 white/green stripe	Tx +	DC -	TxRx B +	DC -
Pin 4	 blue solid	 blue solid	Unused	Unused	TxRx C +	
Pin 5	 white/blue stripe	 white/blue stripe	Unused	Unused	TxRx C -	
Pin 6	 orange solid	 green solid	Tx -	DC -	TxRx B -	DC -
Pin 7	 white/brown stripe	 white/brown stripe	Unused	Unused	TxRx D +	
Pin 8	 brown solid	 brown solid	Unused	Unused	TxRx D -	

### Alternative B:

802.3af and 802.3at Alternative B connection. The power sourcing equipment applies a positive voltage to pins 4-5 and a negative voltage to pins 7-8.

#### 802.3af/at Alternative B:

Pins at switch	T568A Color	T568B Color	10/100 Alternative B, DC on spares		1000 (1 gigabit) Alternative B, DC & bi-data	
Pin 1	 white/green stripe	 white/orange stripe	Rx +		TxRx A +	

Pin 2	 green solid	 orange solid	Rx -	TxRx A -	
Pin 3	 white/orange stripe	 white/green stripe	Tx +	TxRx B +	
Pin 4	 blue solid	 blue solid	DC +	TxRx C +	DC +
Pin 5	 white/blue stripe	 white/blue stripe	DC +	TxRx C -	DC +
Pin 6	 orange solid	 green solid	Tx -	TxRx B -	
Pin 7	 white/brown stripe	 white/brown stripe	DC -	TxRx D +	DC -
Pin 8	 brown solid	 brown solid	DC -	TxRx D -	DC -

## CE Declaration of Conformity

<b>[BG] Bulgarian</b>	С настоящото TELTONIKA NETWORKS декларира, че този TSW202 е в съответствие със съществените изисквания и други разпоредби на Директиви 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[HR] Croatian</b>	Ovim TELTONIKA NETWORKS izjavljuje da je ovaj TSW202 u skladu s bitnim zahtjevima i ostalim relevantnim odredbama Direktive 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[CZ] Czech</b>	TELTONIKA NETWORKS erklærer hermed, at denne TSW202 er i overensstemmelse med de væsentlige krav og andre bestemmelser i direktiv 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[DK] Danish</b>	Hereby, TELTONIKA NETWORKS declares that this TSW202 is in compliance with the essential requirements and other relevant provisions of Richtlijnen 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[NL] Dutch</b>	Hereby, TELTONIKA NETWORKS declares that this TSW202 is in compliance with the essential requirements and other relevant provisions of Richtlijnen 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[EE] Estonian</b>	Käesolevaga kinnitab TELTONIKA NETWORKS seadme TSW202 vastavust Direktiivide 2014/30/EU, 2014/35/EU, 2011/65/EU põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
<b>[FI] Finish</b>	TELTONIKA NETWORKS vakuuttaa täten että TSW202 tyyppinen laite on Direktiivien 2014/30/EU, 2014/35/EU, 2011/65/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
<b>[FR] French</b>	TELTONIKA NETWORKS déclare par la présente que ce TSW202 est conforme aux exigences essentielles et autres dispositions des Directives 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[DE] German</b>	TELTONIKA NETWORKS erklärt hiermit, dass dieses TSW202 den grundlegenden Anforderungen und anderen Bestimmungen der Richtlinien 2014/30/EU, 2014/35/EU, 2011/65/EU entspricht.
<b>[GR] Greek</b>	Η TELTONIKA NETWORKS δηλώνει ότι το παρόν TSW202 συμμορφώνεται με τις βασικές απαιτήσεις και άλλες διατάξεις των Οδηγιών 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[HU] Hungarian</b>	A TELTONIKA NETWORKS kijelenti, hogy ez a TSW202 megfelel a 2014/30/EU, 2014/35/EU, 2011/65/EU irányelvek alapvető követelményeinek és egyéb rendelkezéseinek.

<b>[IE] Irish</b>	Leis seo, dearbhaíonn TELTONIKA NETWORKS go gcomhlíonann an TSW202 seo bunriachtanais agus forálacha ábhartha eile Threoir 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[IT] Italian</b>	Con la presente, TELTONIKA NETWORKS dichiara che questo TSW202 è conforme ai requisiti essenziali e ad altre disposizioni pertinenti della Direttive 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[LV] Latvian</b>	TELTONIKA NETWORKS ar šo paziņo, ka šis TSW202 atbilst pamatprasībām un citiem Direktīvas 2014/30/EU, 2014/35/EU, 2011/65/EU noteikumiem.
<b>[LT] Lithuanian</b>	Šiuo dokumentu UAB TELTONIKA NETWORKS deklaruoja, kad šis TSW202 atitinka esminius reikalavimus ir kitas 2014/30/EU, 2014/35/EU, 2011/65/EU Direktyvų nuostatas.
<b>[MT] Maltese</b>	TELTONIKA NETWORKS b'dan tiddikjara li dan TSW202 jikkonforma mar-rekwiżiti essenzjali u dispożizzjonijiet oħra tad-Direttivi 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[NO] Norwegian</b>	TELTONIKA NETWORKS erklærer herved at denne TSW202 er i samsvar med de grunnleggende kravene og andre bestemmelser i Direktivene 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[PL] Polish</b>	TELTONIKA NETWORKS niniejszym oświadcza, że niniejszy TSW202 jest zgodny z zasadniczymi wymaganiami i innymi postanowieniami Dyrektyw 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[PT] Portuguese</b>	A TELTONIKA NETWORKS declara que esta TSW202 cumpre os requisitos essenciais e outras disposições das Directivas 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[RO] Romanian</b>	TELTONIKA NETWORKS declară prin prezenta că acest TSW202 este în conformitate cu cerințele esențiale și cu alte dispoziții ale Directivelor 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[SK] Slovak</b>	Spoločnosť TELTONIKA NETWORKS týmto vyhlasuje, že tento TSW202 spĺňa základné požiadavky a ďalšie ustanovenia smerníc 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[SI] Slovenian</b>	TELTONIKA NETWORKS izjavlja, da je ta TSW202 skladen z bistvenimi zahtevami in drugimi določbami Direktiv 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[ES] Spanish</b>	TELTONIKA NETWORKS declara por la presente que este TSW202 cumple los requisitos esenciales y otras disposiciones de las Directivas 2014/30/EU, 2014/35/EU, 2011/65/EU.
<b>[SE] Swedish</b>	TELTONIKA NETWORKS förklarar härmed att denna TSW202 uppfyller de grundläggande kraven och andra bestämmelser i Direktiven 2014/30/EU, 2014/35/EU, 2011/65/EU.

## FCC

This device complies with Part 15 of the FCC 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.

This equipment has been tested and found to comply with the limits for a Class B 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.

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 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 the instruction manual, 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.

**FCC Caution:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## **ISED Canada**

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference;
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est.

## **NOM**

La operación de este equipo está sujeta a las siguientes dos condiciones:

1. Es posible que este equipo o dispositivo no cause interferencia perjudicial.
2. Este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Detailed compliance information is available at the following internet address: [wiki.teltonika-networks.com/view/Certificates](http://wiki.teltonika-networks.com/view/Certificates).

- ✘ This sign means that it is necessary to read the User's Manual before you start using the device.
- ✘ This sign on the package means that all used electronic and electric equipment should not be mixed with general household waste.
- ✘ Hereby, TELTONIKA NETWORKS declares that this TSW202 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following internet address:  
[https://wiki.teltonika-networks.com/view/TSW202\\_CE/RED](https://wiki.teltonika-networks.com/view/TSW202_CE/RED)
- ✘ Hereby, TELTONIKA NETWORKS declares that the radio equipment type TSW202 is in compliance with Radio Equipment Regulations 2017. The full text of the UK declaration of conformity is available at the following internet address:  
[https://wiki.teltonika-networks.com/view/TSW202\\_UKCA](https://wiki.teltonika-networks.com/view/TSW202_UKCA).

## Operating conditions

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- Operating temperature: -40° to +75° Celsius
- Humidity should be in the range of 5% to 95% (non-condensing). Only use the device in dry environments.
- Out of direct sunlight
- Away from heat source, corrosive substances, salts, and flammable gases

**Attention:** operation outside the permissible range can considerably shorten the service life of the device.

## Faulty and damaged products

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- Do not attempt to disassemble the device or its accessories.
- Only qualified personnel must service or repair the device or its accessories.
- If your device or its accessories have been submerged in water punctured or subjected to a severe fall, do not use until they have been checked at an authorized service center.

## Electrical safety

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- Only use approved accessories.
- Do not connect with incompatible products or accessories.
- It is recommended to ground devices with grounding terminals before connecting them to power. Failure to ground appropriately might result in a shock hazard. The cross-sectional area of the protective grounding conductor should be at least 1mm<sup>2</sup>.

## Product handling

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- You alone are responsible for how you use your device and any consequences related to its use.

- Use of your device is subject to safety measures designed to protect users and their environment.
- Always treat your device and its accessories with care and keep it in a clean and dust-free place.
- Do not expose your device or its accessories to open flames, lit tobacco products, liquid, moisture, or high humidity.
- Do not drop, throw or try to bend your device or its accessories.
- Do not use harsh chemicals, cleaning solvents, or aerosols to clean the device or its accessories.
- Do not paint your device or its accessories.
- Do not attempt to disassemble your device (exemptions for devices that require disassembly for SIM insertion) or its accessories: it does not contain any user-serviceable parts. For safety reasons, the equipment should be opened only by qualified personnel.
- Make sure to use ESD personal protective equipment while the equipment is serviced.
- Do not use your device in an enclosed environment where heat dissipation is poor.
- Prolonged use in such space may cause excessive heat and raise ambient temperature, which will lead to the automatic shutdown of your device or the disconnection of the mobile network connection for your safety. To use your device again after such a shutdown, cool it in a well-ventilated place before turning it on.
- Please check all national laws and local regulations for the disposal of electronic products.
- Do not operate the device where ventilation is restricted.
- Do not use or install this product near water to avoid fire or shock hazards.
- Avoid exposing the equipment to rain or damp areas.
- Arrange power and Ethernet cables so that they are not likely to be stepped on or have items placed on them.
- Ensure that the voltage and the rated current of the power source match the device's requirements. Do not connect the device to an inappropriate power source.
- During a thunderstorm, no operations should be carried out on the device and cables.
- The unit must be powered off where blasting is in progress and explosive atmospheres are present or near medical life support equipment.
- Do not leave your device and its accessories within reach of small children or allow them to play with it. They could hurt themselves or others and could accidentally damage the device. Your device contains small parts with sharp edges that may cause an injury choking hazard.
- The device may become warm during regular use.

## Front view



## Back view



## Connectors

### POWER SOCKET PINOUT



## RJ45 LED MEANING



## SFP LED MEANING




## Video Quick Start Guide

Need some help setting up your Teltonika Networks TSW202 PoE+ managed switch? Watch our quick start guide video and follow the step-by-step instructions to easily set up your new router for operation.

## Hardware installation



## Login to device

1. Ensure the  Network connection is Enabled. Go to Start — Control Panel — Network and Internet — Network and Sharing Center. Click on the **Change adapter settings** in the left panel, then right-click on Network Adapter, and select Enable.

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2. Right-click on Network Adapter and select Properties. Then select **Internet Protocol Version 4** and click Properties.

3. If not selected, check to **Use the following IP address** and enter **192.168.1.5**.



4. Click in the **Subnet mask** it should get auto-filled with 255.255.255.0. Click OK.

5. To enter the managed switch's Web interface (WebUI), type <http://192.168.1.2> into the URL field of your Internet browser.



2. When prompted for authentication enter the username admin and enter the password located on the device information label/engraving.

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6. After logging in, you must set a new password for security reasons. You will not be able to interact with the managed switch 's WebUI until the default password is changed. The new password must consist of a minimum of **8 characters**. Requirements: one uppercase letter, one lowercase letter, and one digit.

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