

# TSW101 First Start

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This Wiki page contains the online version of the **Quick Start Guide (QSG)** for the **TSW101 Switch**. Here you will find an overview of the various components found on the front and back sides of a TSW101 switch, basic hardware installation, device specifications and general safety information. It is highly recommended that you acquaint yourself with the Quick Start Guide before using the device. If you own a TSW101 switch, you can also find a printed version of the Quick Start Guide in the device's package.



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## Front view

No.	Description
1	2 pin power socket
2	Power LED
3	LAN LEDs
4	PoE powered Ethernet port
5	Ethernet port



## Back view

No.	Description
1	Grounding screw



# Connectors

## 2 pin power socket

No.	Description	Wire color
1	Power	Red
2	Ground	Black



## Ethernet port

No.	Action	Description
1	<b>Orange</b> LED lit	10/100 Mbps link established
1	<b>Orange</b> LED blinking	Active link connection
2	<b>Green</b> LED lit	1000 Mbps link established



## Hardware installation

1. Connect your main internet router/modem to TSW101 LAN port number 5.
2. Connect end devices (ex. IP camera) to TSW101 1 to 4 port, which you want to power via Ethernet.
3. Connect the wires to the 2-PIN industrial DC power socket on TSW101.



## Technical information

### Technical specifications

Input voltage range	9 - 30 V
Max power consumption (no PoE devices connected)	<2.2 W
Max PoE power budget at PSE*	60 W
Max Ethernet cable length	100 m

\* Depends on connected power source. (30 W (max.) @ 12 VDC for total PD consumption; 30 W (max.) for each PoE port ; 60 W (max.) @ 24 VDC for total PD consumption; 30 W (max.) for each PoE port).

### 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  
Pin 8  brown solid  brown solid

DC – TxRx D DC –  
+  
DC – TxRx D DC –  
-

## Safety information

The TSW101 switch 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.

<b>[EN] English</b>	Hereby, TELTONIKA declares that this TSW101 is in compliance with the essential requirements and other relevant provisions of Directive CE/RED.
<b>[BF] Bulgarian</b>	С настоящето, TELTONIKA декларира, че TSW101 е в съответствие със съществените изисквания и другите приложими разпоредби на Директива CE/RED.
<b>[CZ] Czech</b>	TELTONIKA tímto prohlašuje, že TSW101 splňuje základní požadavky a všechna příslušná ustanovení Směrnice CE/RED.
<b>[DE] German</b>	Hiermit erklärt TELTONIKA dass sich das Gerät TSW101 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie CE/RED befindet.
<b>[DK] Danish</b>	Undertegnede TELTONIKA erklærer herved, at følgende udstyr TSW101 overholder de væsentlige krav og øvrige relevante krav i direktiv CE/RED.
<b>[EE] Estonian</b>	Käesolevaga kinnitab TELTONIKA seadme TSW101 vastavust direktiivi CE/RED põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
<b>[ES] Spanish</b>	Por la presente, TELTONIKA declara que este TSW101 cumple con los requisitos esenciales y otras exigencias relevantes de la Directiva CE/RED.
<b>[FI] Finnish</b>	TELTONIKA vakuuttaa täten että TSW101 tyyppinen laite on direktiivin CE/RED oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
<b>[FR] French</b>	TELTONIKA déclare que cette TSW101 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive CE /RED.
<b>[GR] Greek</b>	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Ο ΚΑΤΑΣΚΕΥΑΣΤΗΣ TELTONIKA ΔΗΛΩΝΕΙ ΟΤΙ ΤSW101 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ CE/RED.
<b>[HU] Hungarian</b>	A TELTONIKA ezzennel kijelenti, hogy a TSW101 típusú berendezés teljesíti az alapvető követelményeket és más CE/RED irányelvben meghatározott vonatkozó rendelkezéseket.
<b>[IT] Italian</b>	Con la presente TELTONIKA dichiara che questo TSW101 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva CE/RED.
<b>[LT] Lithuanian</b>	Šiuo dokumentu UAB TELTONIKA deklaruoja, kad šis TSW101 atitinka esminius reikalavimus ir kitas CE/RED Direktyvos nuostatas.
<b>[LV] Latvian</b>	Ar šo TELTONIKA deklarē, ka TSW101 atbilst Direktīvas CE/RED būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
<b>[NL] Dutch</b>	Hierbij verklaart TELTONIKA dat het toestel l TSW101 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn CE/RED.
<b>[NO] Norwegian</b>	TELTONIKA Erklærer herved at TSW101 er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv CE/RED.
<b>[PL] Polish</b>	Niniejszym TELTONIKA deklaruje że TSW101 jest zgodny z zasadniczymi wymaganiami i innymi właściwymi postanowieniami Dyrektywy CE/RED.
<b>[PT] Portuguese</b>	Eu, TELTONIKA declaro que o TSW101 cumpre os requisitos essenciais e outras provisões relevantes da Directiva CE/RED.

<b>[RO] Romanian</b>	Prin prezenta, TELTONIKA declară că aparatul TSW101 este în conformitate cu cerințele esențiale și cu alte prevederi pertinente ale Directivei CE/RED.
<b>[SE] Swedish</b>	Härmed intygar TELTONIKA att denna TSW101 är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv CE/RED.
<b>[SI] Slovenian</b>	TELTONIKA izjavlja, da je ta TSW101 v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive CE/RED.

The full text of the EU declaration of conformity is available at this Wiki via the following address:  
[https://wiki.teltonika-networks.com/view/TSW101\\_CE/RED](https://wiki.teltonika-networks.com/view/TSW101_CE/RED)

**[EN]** Instruction Manual: Connect the power adapter to turn on the device. Open 192.168.1.1 in your web browser to configure it. More information on <https://wiki.teltonika-networks.com>

**[BG]** Инструкция: Свържете адаптера на захранване, за да включите устройството. Отворете 192.168.1.1 в уеб браузър, за да настроите продукта. Повече информация в <https://wiki.teltonika-networks.com>

**[CZ]** Návod k použití: Připojte napájecí adaptér k zapnutí přístroje. Otevřete 192.168.1.1 ve webovém prohlížeči pro konfiguraci produktu. Více informací najdete v <https://wiki.teltonika-networks.com>

**[DE]** Bedienungsanleitung: Verbinden Sie das Netzteil, um das Gerät einzuschalten. Öffnen Sie 192.168.1.1 in einem Web Browser, um das Produkt zu konfigurieren. Weitere Informationen im <https://wiki.teltonika-networks.com/>

**[DK]** Instruktionsbog: Tilslut strømadapteren for at tænde for enheden. Åbn 192.168.1.1 i en webbrowser til at konfigurere produktet. Mere information i <https://wiki.teltonika-networks.com>

**[EE]** Kasutusjuhend: Ühendage toiteadapter seadme sisselülitamiseks. Avatud 192.168.1.1 in veebilehitseja seadistada toodet. Rohkem teavet <https://wiki.teltonika-networks.com>

**[ES]** Manual de instrucciones: Conecte el adaptador de alimentación para encender la unidad. Abra 192.168.1.1 en un navegador web para configurar el producto. Más información en <https://wiki.teltonika-networks.com>


**[FI]** Käyttöohje: Kytke virtalähde päälle laitteen. Avaa 192.168.1.1 in selaimen määrittää tuotteen. Lisää tietoa <https://wiki.teltonika-networks.com>

**[FR]** Mode d'emploi: Connectez l'adaptateur d'alimentation pour allumer l'appareil. Ouvrez 192.168.1.1 dans un navigateur Web pour configurer le produit. Plus d'informations dans <https://wiki.teltonika-networks.com>

**[GR]** εγχειρίδιο οδηγιών: Συνδέστε τον προσαρμογέα τροφοδοσίας για να ενεργοποιήσετε τη μονάδα. Ανοίξτε 192.168.1.1 σε ένα πρόγραμμα περιήγησης στο Web για να διαμορφώσετε το προϊόν. Περισσότερες πληροφορίες στο <https://wiki.teltonika-networks.com>

**[HU]** Használati utasítás: Csatlakoztassa a hálózati adaptert a készülék bekapcsolásához. Megnyitása 192.168.1.1 egy webböngészőben beállítani a terméket. Több információ <https://wiki.teltonika-networks.com>



 This sign means that product meets the requirements of the applicable EU directives.