

TSW100 First Start

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This Wiki page contains the online version of the **Quick Start Guide (QSG)** for the **TSW100 Switch**. Here you will find an overview of the various components found on the front and back sides of a TSW100 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 TSW100 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	4 pin power socket
2	ETH LEDs
3	Power LED
4	PoE powered Ethernet port
5	Ethernet port




Back view

No.	Description
1	Grounding screw




Connectors

4 pin power socket

No.	Description	Wire color	
1	Power	Red	
2	Ground	Black	
3	Not connected	-	
4	Not connected	-	

Ethernet port

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

Safety information

TSW100 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.

Technical specifications

Input voltage range*	7 - 57 VDC
Max power consumption	<9 W
Max PoE power budget at PSE**	120 W

Bundled accessories specifications***

Power adapter	Input: 1.8 A @ 100-240 VAC, Output: 48 VDC, 1.3 A, 4-pin plug
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* PoE operates properly only when connected power supply outputs 44 V or higher voltage.

** Default Teltonika provided power supply only allows 60 W PoE power budget at PSE, to reach maximum 120 W at PSE, a >130 W power supply must be used.

*** Order code dependant.

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 -

