TSW100 First Start

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 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.

Contents

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	Describtion
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

* 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 −	

Pin 7	white/brown stripe	white/brown stripe	DC −	TxRx D +	DC −
Pin 8	brown solid	brown solid	DC −	TxRx D -	DC −

日本国内専用です

本製品を電気通信事業者（移動体通信事業者、固定通信事業者、インターネットプロバイダなど）の電気通信回線（または公衆無線LAN）に直接接続することはできません。電気通信事業者の公衆電気通信回線設備に接続する場合は、必ず日本の「電気通信事業法」で認められた機器（ルーター、ゲートウェイ、モデムなど）を介して接続してください。

This sign on the package means that 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