

Template:Networking tsw100 first start safety information

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			Rx +	DC +	TxRx A + DC +
Pin 2			Rx -	DC +	TxRx A - DC +
Pin 3			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 -



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This sign on the package 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