

TSW212

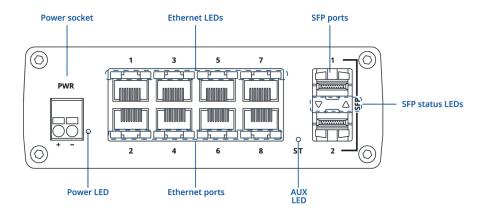
v1.2



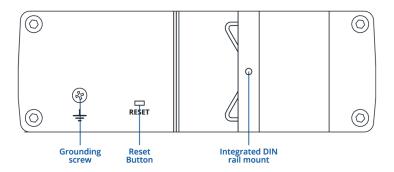


HARDWARE

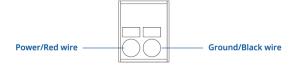
FRONT VIEW



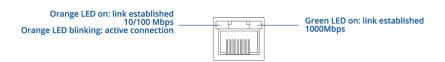
BACK VIEW



POWER SOCKET PINOUT



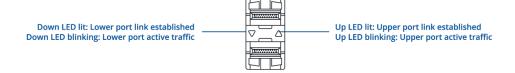
RJ45 LED MEANING







SFP LED MEANING





FEATURES

Traffic Shaper

Multi-layer managed 8 x ETH ports, 10/100/1000 Mbps supports auto MDI/MDIX crossover
2 x SFP ports
802.3i, 802.3u, 802.3ab, 802.3x, 802.3az
Profinet Class B conformance (available with optional order code)
Yes
Yes
Yes
802.1p class of service, 802.1x port-based network access control, 802.1Q VLAN
MRP client role, MRP manager role
Loop protection, Forwarding table, VLAN, STP/RSTP
DHCP server, DHCP client, DHCP static leases capable of using MAC with wildcards
Enable/disable, link speed control, port isolation, EEE (802.3az) management, Port Mirroring
Static IPv4 routing, static IPv6 routing, DHCPv6 client, static IPv6 address
PAM — preshared key, Radius & TACACS+, IP & login attempts block
Allow specific MAC addresses to connect through specified ports, ignore unauthorized or disable the port if an unauthorized MAC address is detected
Port priority, DSCP priority, 802.1p priority, TOS
Port priority, DSCP priority, 802.1p priority, TOS SP/WFQ/WRR

Port-based shaping



Diagnostics		
Tools	Cable diagnostic, ping, traceroute, nslookup	
API		
Teltonika Networks Web API (beta) support	Expand your device's possibilities by using a set of configurable API endpoints to retrieve or change data. For more information, please refer to this documentation: https://developers.teltonika-networks.com	
System Characteristics		
RAM	128MB, DDR3	
FLASH storage	16 MB serial flash	
Firmware / Configuration		
WEB UI	Update FW from file, check FW on server, configuration profiles, configuration backup	
FOTA	Update FW	
RMS	Update FW/configuration for multiple devices at once	
Keep settings	Update FW without losing current configuration	
FIRMWARE CUSTOMISATION		
Operating system	TSWOS (OpenWrt based Linux OS)	
Supported languages	Busybox shell, Lua, C, C++	
Development tools	SDK package with build environment provided	
Performance Specifications		
Bandwidth (Non-blocking)	20 Gbps	
Forwarding rate	14.88 Mpps	
Packet buffer	512 KB	
MAC address table size	8K entries	
Jumbo frame support	10000 bytes	
Power		
Connector	2-pin industrial DC power socket	
Input voltage range	7 – 57 VDC	
Power consumption	Idle: < 2.5 W / Max: 6 W	



Phy	vsical	Inte	rfaces
	y Sicui		

Ethernet	8 x RJ45 ports, 10/100/1000 Mbps
Fibre	2 x SFP ports
Status LEDs	1 x Power LED, 1 x Aux LED, 16 x ETH status LEDs, 2 x SFP status LEDs
Power	1 x 2-pin industrial DC power socket
Reset	Software reset button
Other	1 x Grounding screw

Physical Specification

Casing material	Anodized aluminum housing and panels	
Dimensions (W x H x D)	132 x 44.2 x 122.2 mm	
Weight	615 g	
Mounting options	Integrated DIN rail bracket; wall mount and flat surface (additional kit needed)	

Operating Environment

Operating temperature	-40 °C to 75 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP30

Regulatory & Type Approvals

Regulatory	CE, UKCA, RCM, ANRT, FCC, IC, CB, WEEE, RoHS, REACH, SDPPI (POSTEL), JATE,
	Kenya, ICASA, Giteki, NBCT, ICASA, PROFINET, UL Safety

EMC Emissions & Immunity

Standards	EN 55032:2015 + A11:2020 + A1:2020
	EN 55035:2017 + A11:2020
	EN IEC 61000-3-2: 2019 + A1:2021
	EN 61000-3-3: 2013 + A1:2019 + A2:2021
ESD	EN 61000-4-2:2009
Radiated Immunity	EN IEC 61000-4-3:2020
EFT	EN 61000-4-4:2012
Surge Immunity (AC Mains Power Port)	EN 61000-4-5:2014 + A1:2017
cs	EN 61000-4-6:2014
DIP	EN 61000-4-11:2020





Safety

Standards CE: EN IEC 62368-1:2020 + A11:2020

RCM: AS/NZS 62368.1:2022

CB: IEC 62368-1:2018

Safety (Ordinary Locations)

Standards UL/CSA Safety: UL 62368-1 (3rd Ed., Rev. December 13, 2019), C22.2 No. 62368-1:19

(3rd Ed., Rev. December 13, 2019)



ORDERING

STANDARD PACKAGE*





- TSW212
- QSG (Quick Start Guide)
- Packaging box

For more information on all available packaging options - please contact us directly.

CLASSIFICATION CODES

HS Code: 851762 **HTS:** 8517.62.00

AVAILABLE VERSIONS

TSW212 *****0 PROFINET disabled by default	N/A	TSW212000000 / Standard package
TSW212 *****1	N/A	TSW212000001 / Standard package

TSW212 SPATIAL MEASUREMENTS

PHYSICAL SPECIFICATION

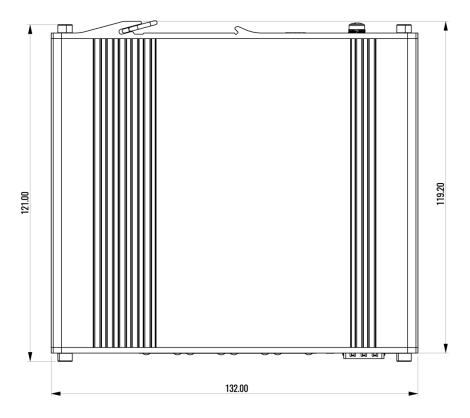
Device housing (W x H x D)*	132 x 44.2 x 122 mm
Box (W x H x D):	136 x 47 x 125 mm
	*Housing measurements are presented without antenna connectors and screws; for measurements of other device elements look to the sections below.

^{*}Standard package contents may differ based on standard order codes.



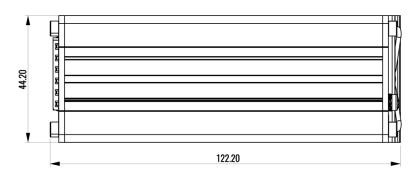
TOP VIEW

The figure below depicts the measurements of device and its components as seen from the top:



RIGHT VIEW

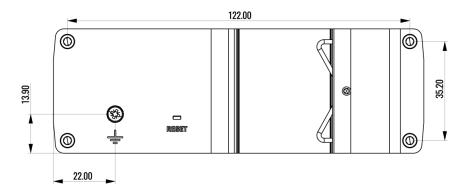
The figure below depicts the measurements of device and its components as seen from the right:





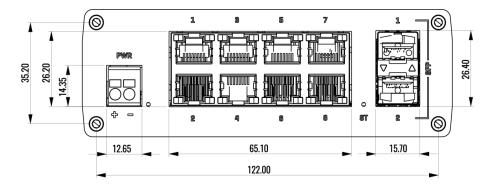
REAR VIEW

The figure below depicts the measurements of device and its components as seen from the back panel side:



FRONT VIEW

The figure below depicts the measurements of device and its components as seen from the front panel side:





MOUNTING SPACE REQUIREMENTS

The figure below depicts an approximation of the device's dimensions when cables and antennas are attached:

