



TSW212

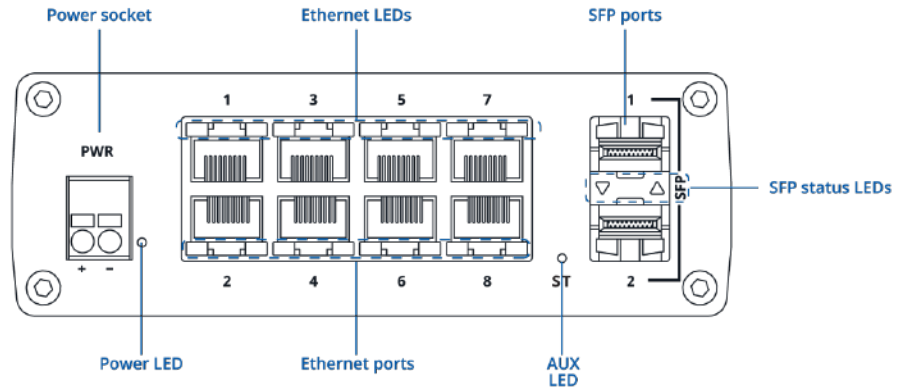
v1.1

Ensured by PROFINET

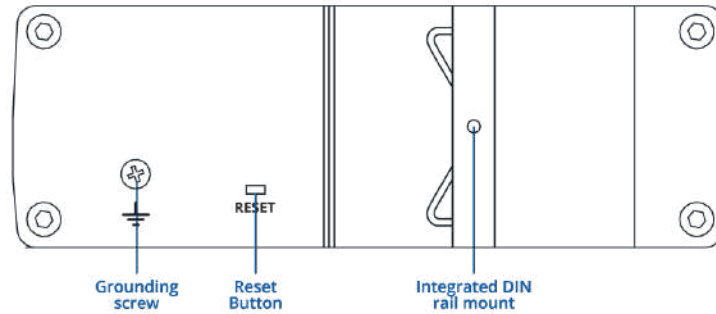


HARDWARE

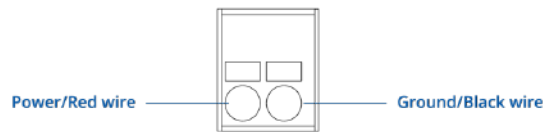
FRONT VIEW



BACK VIEW



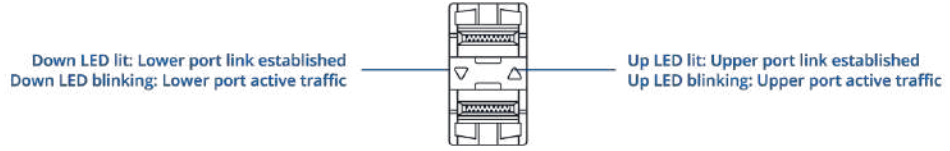
POWER SOCKET PINOUT



RJ45 LED MEANING



SFP LED MEANING



FEATURES

Ethernet

ETH	Multi-layer managed 8 x ETH ports, 10/100/1000 Mbps supports auto MDI/MDIX crossover
Fibre	2 x SFP ports
IEEE 802.3 series standards	802.3i, 802.3u, 802.3ab, 802.3x, 802.3z

INDUSTRIAL PROTOCOLS

Profinet	Profinet Class B conformance (available with optional order code)
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Services

EtherNet/IP	Yes
SNMP V2, V3	Yes
LLDP	Yes
Network Management	802.1p class of service, 802.1x port-based network access control, 802.1Q VLAN

Network

MRP	MRP client role, MRP manager role
L2 features	Loop protection, Forwarding table, VLAN, STP/RSTP
DHCP	DHCP server, DHCP client, DHCP static leases capable of using MAC with wildcards
Port Settings	Enable/disable, link speed control, port isolation, EEE (802.3az) management, Port Mirroring
L3 Features	Static IPv4 routing, static IPv6 routing, DHCPv6 client, static IPv6 address

Security

Authentication	PAM — preshared key, Radius & TACACS+, IP & login attempts block
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QoS

QOS	Port priority, DSCP priority, 802.1p priority, TOS
Scheduling method	SP/WFQ/WRR
Bandwidth control	Rate limiting, storm control
Traffic Shaper	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

Physical Interfaces

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
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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

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

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	N/A	TSW212000000 / Standard package
PROFINET disabled by default		
TSW212 *****1	N/A	TSW212000001 / Standard package
Profinet Class B conformance		

TSW212 SPATIAL MEASUREMENTS

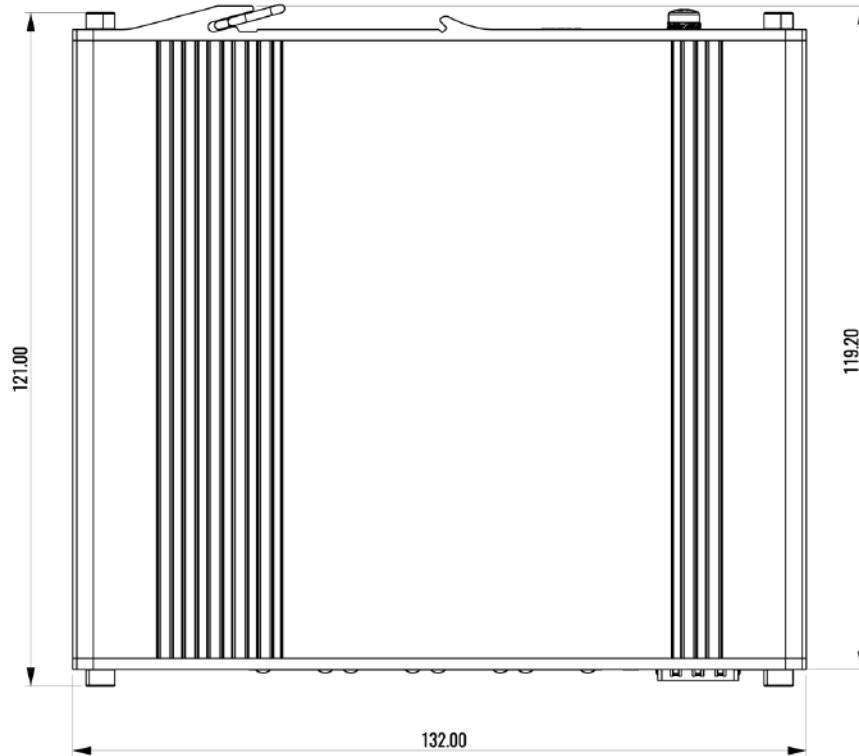
PHYSICAL SPECIFICATION

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

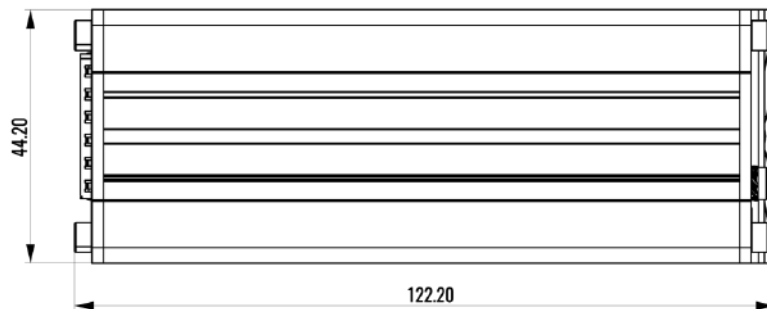
*Housing measurements are presented without antenna connectors and screws; for measurements of other device elements look to the sections below.

TOP VIEW

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

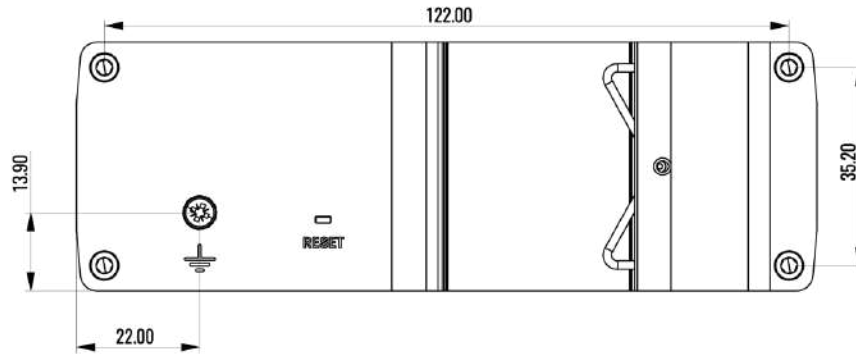
**RIGHT VIEW**

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



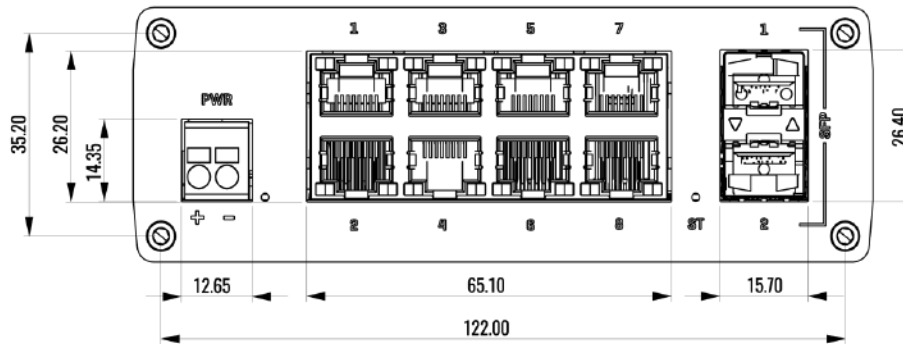
REAR VIEW

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:

