



TSW202

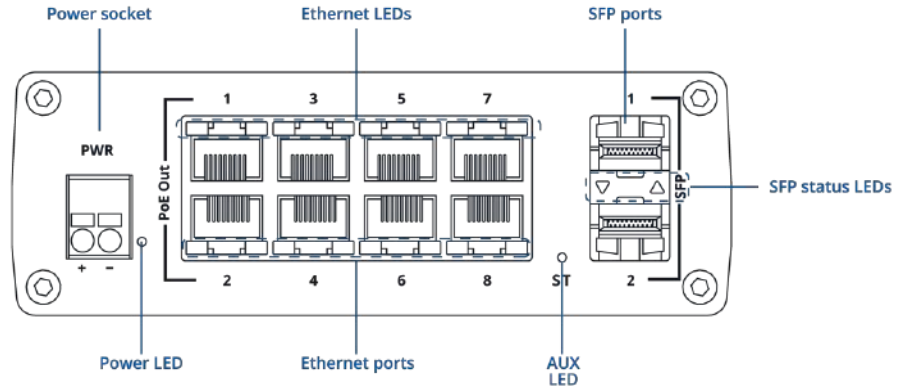
v1.21

Ensured by PROFINET

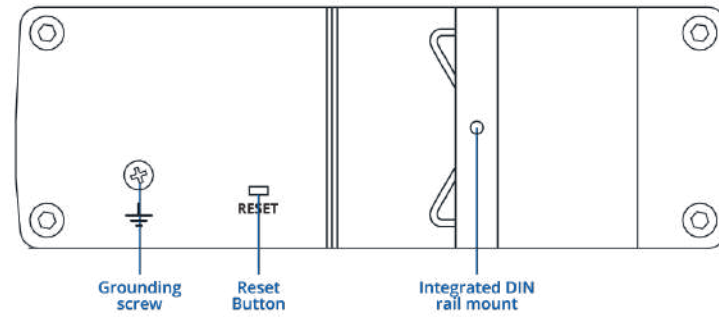


HARDWARE

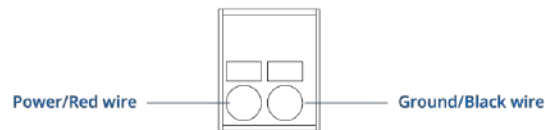
FRONT VIEW



BACK VIEW



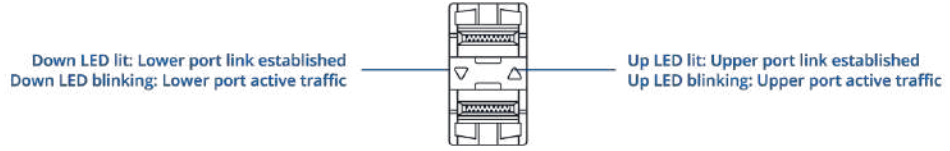
POWER SOCKET PINOUT



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
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Fibre	2 x SFP ports
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IEEE 802.3 series standards	802.3i, 802.3u, 802.3ab, 802.3x, 802.3z
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INDUSTRIAL PROTOCOLS

Profinet	Profinet Class B conformance (available with optional order code)
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POE OUT

PoE ports	Port 1 - 8
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PoE standards	802.3af and 802.3at Alternative A (Batch 15 and all batches from Batch 17 onward) 802.3af and 802.3at Alternative B (Batches 1–14 and Batch 16)
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PoE Max Power per Port (at PSE)	30 W
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Total PoE Power Budget (at PSE)	240 W
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Maximum Ethernet cable length	100 m
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Services

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

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

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
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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
PoE-Out input voltage range	44 – 57 VDC
Power consumption	Idle: < 3 W / Max: 8 W / PoE Max: 248 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	610 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, NBTC, PROFINET, CITC, RoHS, REACH, WEEE, SDPPI (POSTEL), JATE, Kenya, ICASA, Giteki, UL Safety

EMC Emissions & Immunity

Standards EN 55032:2015 + A1:2020 + A1:2020
 EN 55035:2017 + A1:2020
 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 + A1:2020
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*



- TSW202
- 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

TSW202 *****0	N/A	TSW202000000 / Standard package
PROFINET disabled by default		TSW202000040 / Standard package with US PSU without connector
TSW202 *****1	N/A	TSW202000001 / Standard package
Profinet Class B conformance		

For more information on all available packaging options – please [contact us](#) directly.

TSW202 SPATIAL MEASUREMENTS

PHYSICAL SPECIFICATION

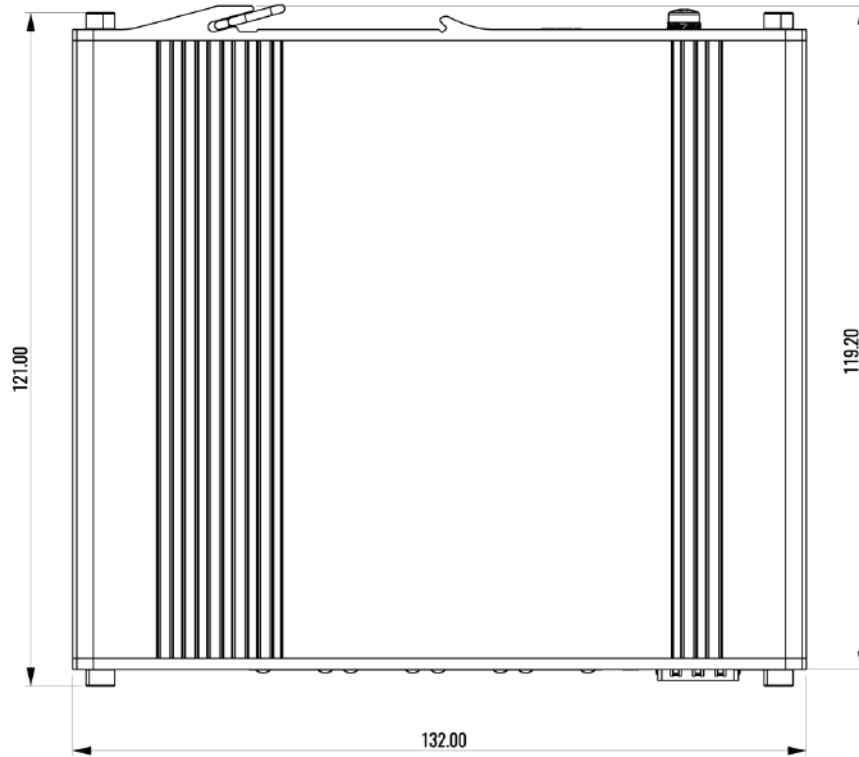
Device housing (W x H x D): 132 x 44.2 x 122.2 mm

Box (W x H x D): 125 x 136x 47 mm

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

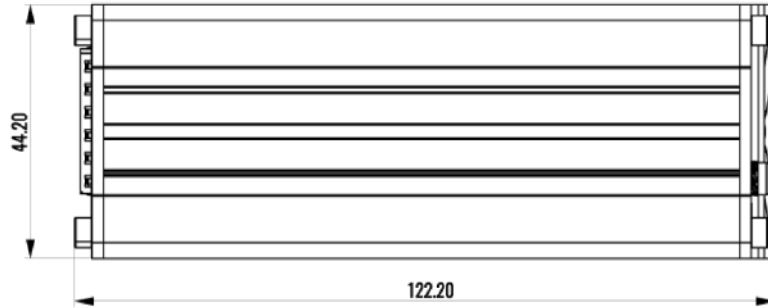
TOP VIEW

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



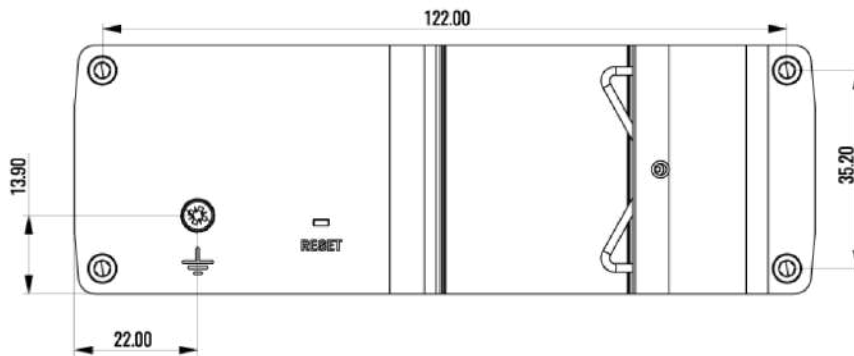
RIGHT VIEW

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



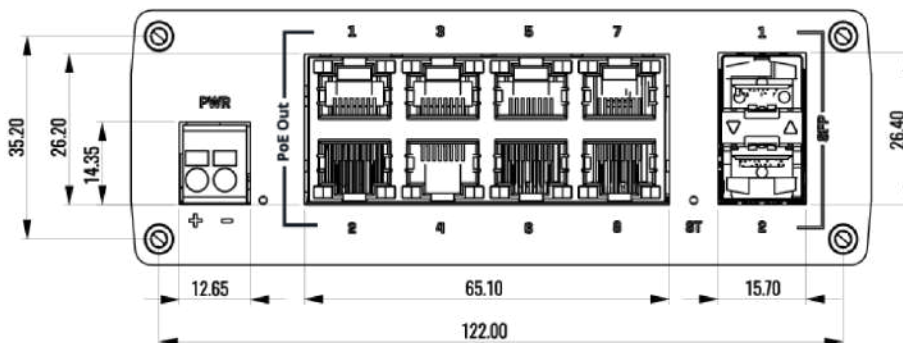
REAR VIEW

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:

