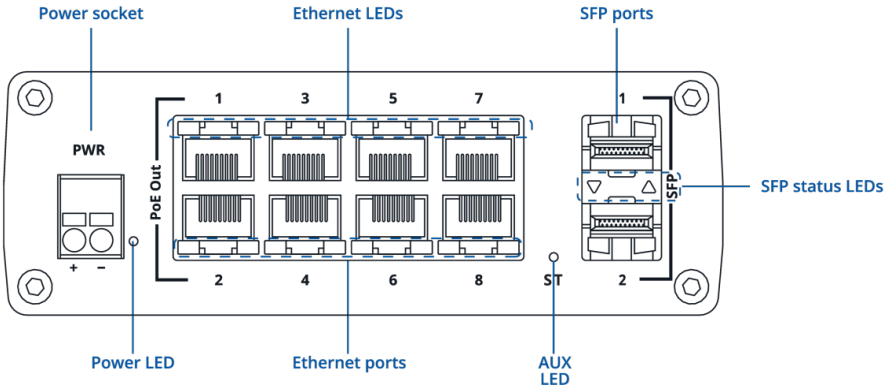
TSW202

v1.3

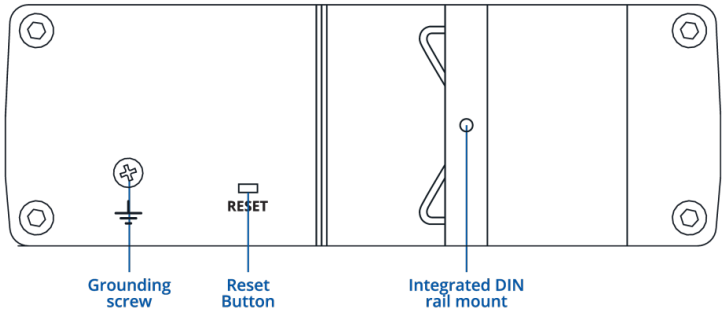
Ensured by PROFINET

HARDWARE

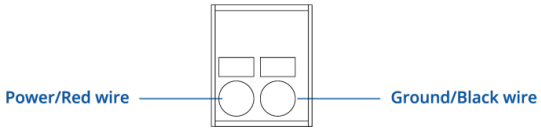
FRONT VIEW



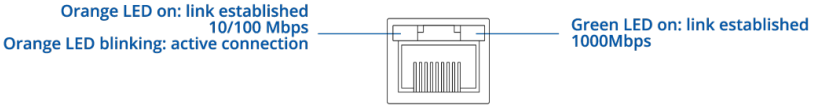
BACK VIEW



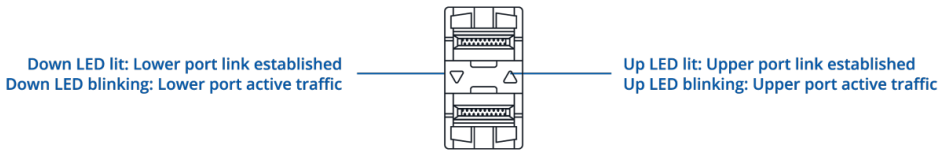
POWER SOCKET PINOUT



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, 802.3az

INDUSTRIAL PROTOCOLS

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

POE OUT

PoE+ ports	Port 1 - 8
PoE standards	IEEE 802.3af (PoE, Type 1) and IEEE 802.3at (PoE+, Type 2), Alternative A (Batch 15 and all batches from Batch 17 onward) IEEE 802.3af (PoE, Type 1) and IEEE 802.3at (PoE+, Type 2), Alternative B (Batches 1–14 and Batch 16)
PoE Max Power per Port (at PSE)	30 W
Total PoE Power Budget (at PSE)	240 W
Maximum Ethernet cable length	100 m

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, PoE Management, 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
MAC filtering support	Allow specific MAC addresses to connect through specified ports, ignore unauthorized or disable the port if an unauthorized MAC address is detected

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

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 + 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*

TSW202

QSG (QUICK START GUIDE)

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

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

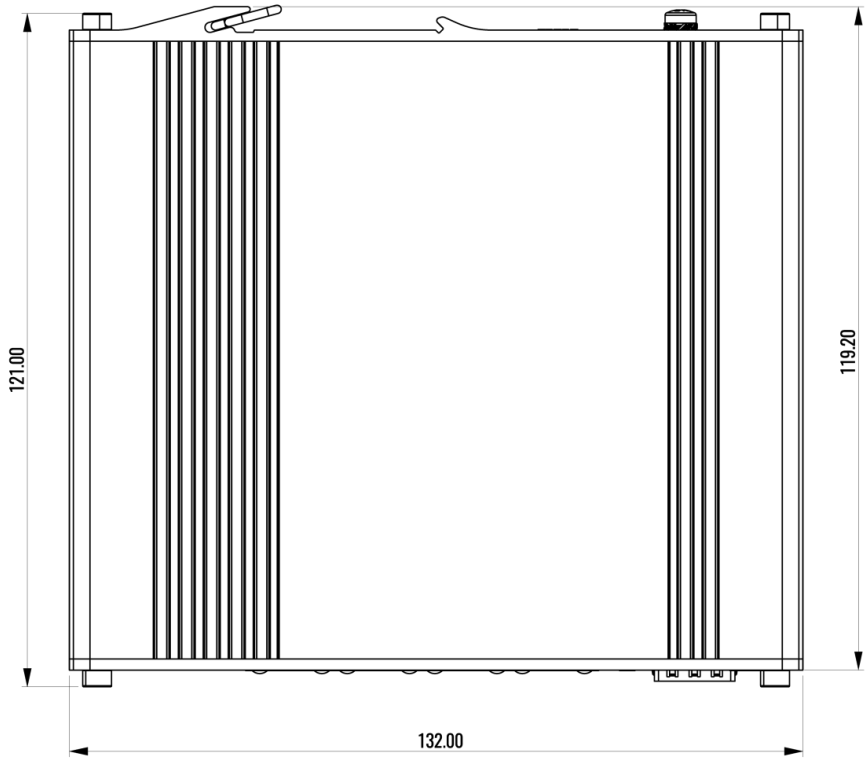
TSW202 SPATIAL MEASUREMENTS

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.

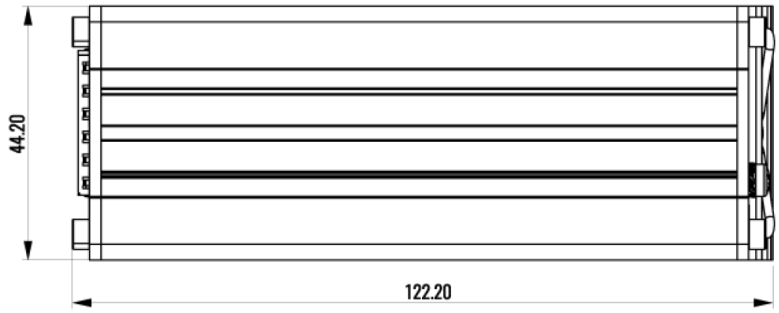
TOP VIEW

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



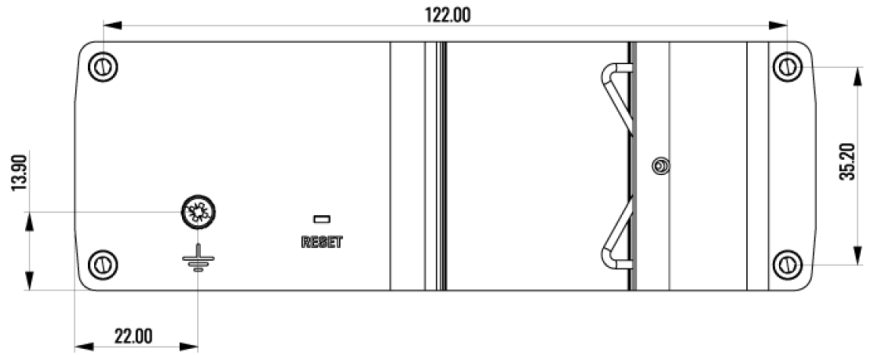
RIGHT VIEW

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



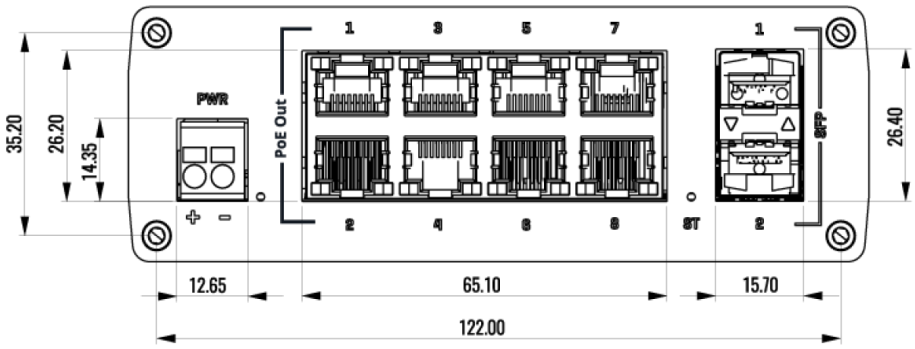
REAR VIEW

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: