# TSW304

v1.11

# HARDWARE

## FRONT VIEW

Power socket

Ethernet LEDs

PWR

Grounding screw

Power LED

Ethernet ports

## BACK VIEW

Integrated DIN rail

## POWER SOCKET PINOUT

Power/Red wire

Ground/Black wire

## RJ45 LED MEANING

Orange LED on: link established 10/100 Mbps
Orange LED blinking: active connection

Green LED on: link established 1000Mbps
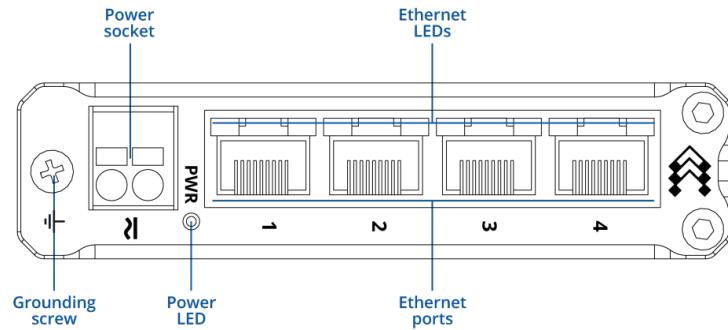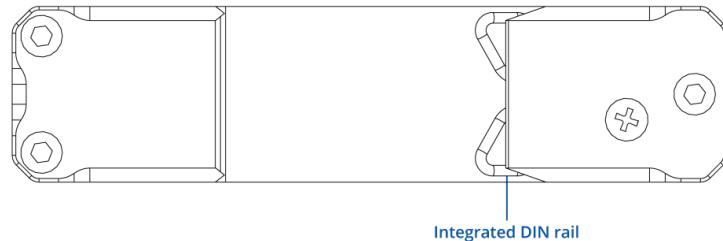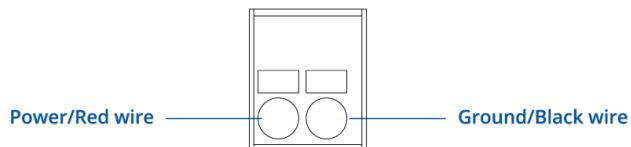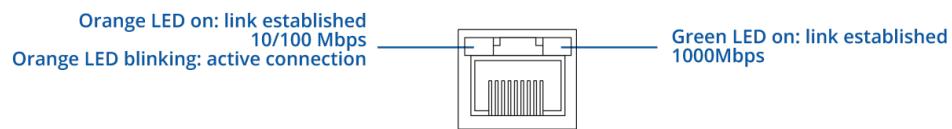
# FEATURES

## Ethernet

| | |
|---|---|
| **ETH** | 4 x ETH ports, 10/100/1000 Mbps, supports auto MDI/MDIX crossover |
| **IEEE 802.3 series standards** | 802.3i, 802.3u, 802.3ab, 802.3x, 802.3az |

## INDUSTRIAL PROTOCOLS

| | |
|---|---|
| **Profinet** | Profinet Class A conformance (available with optional order code) |

## Performance Specifications

| | |
|---|---|
| **Bandwidth (Non-blocking)** | 8 Gbps |
| **Packer buffer** | 128 KB |
| **MAC address table size** | 2K entries |
| **Jumbo frame support** | 9216 bytes |

## Power

| | |
|---|---|
| **Connector** | 2-pin industrial DC power socket |
| **Input voltage range** | 7 - 57 VDC; 9 - 40 VAC |
| **PoE (passive)** | Possibility to power up through ETH1 ports, not compatible with IEEE802.3af, 802.3at and 802.3bt standards, Mode B, 9 - 30 VDC |
| **Power consumption** | Idle: 0.26 W / Max: 1.44 W |

## Physical Interfaces

| | |
|---|---|
| **Ethernet** | 4 x RJ45 ports, 10/100/1000 Mbps |
| **Status LEDs** | 8 x ETH status LEDs, 1 x Power LED |
| **Power** | 1 x 2-pin industrial DC power socket |
| **Other** | 1 x Grounding screw |

## Physical Specification

| | |
|---|---|
| **Casing material** | Aluminium housing |
| **Dimensions (W x H x D)** | 102 x 25 x 81.5 mm |
| **Weight** | 210 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, REACH, RoHS, WEEE, UKCA, FCC, IC, CB, RCM |

## Safety

| | |
|---|---|
| **Standards** | EN IEC 62368-1:2020+A11:2020 |
| | IEC 60068-2-6:2007 Environmental testing - Part 2-6 |
| | IEC 60068-2-27:2008 Environmental testing - Part 2-27 |
| | IEC 60068-2-31:2008 Environmental testing - Part 2-31 |

# ORDERING

### STANDARD PACKAGE*



**TSW304**



**QSG (QUICK START GUIDE)**

- TSW304
- 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

| | | |
|---|---|---|
| TSW304 *****0 | N/A | TSW304000010 / Standard package |
| TSW304 *****1 **Profinet Class A conformance** | N/A | TSW304000001 / Standard package without PSU |

# TSW304 SPATIAL MEASUREMENTS

### PHYSICAL SPECIFICATION

| | |
|---|---|
| **Device housing (W x H x D)*** | 102 x 25 x 81.5 mm |
| **Box (W x H x D):** | 175 x 35 x 150 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:
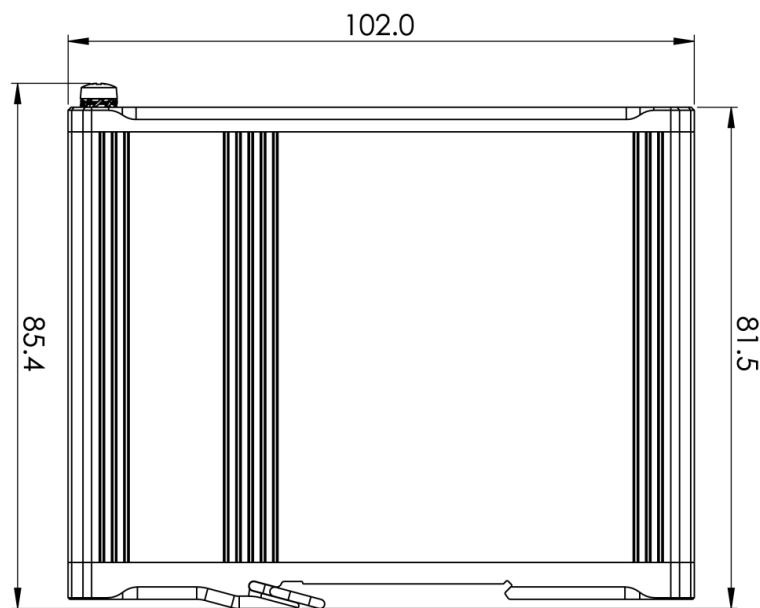


## RIGHT VIEW

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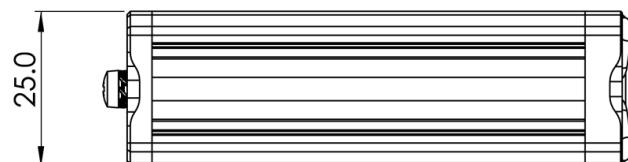
## REAR VIEW

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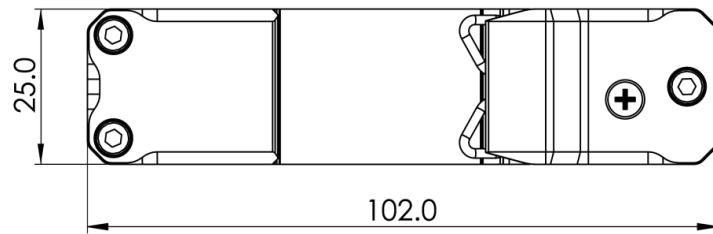


## FRONT VIEW

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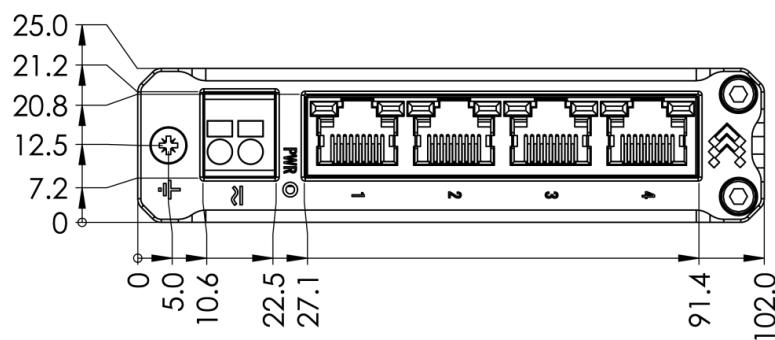
## MOUNTING SPACE REQUIREMENTS

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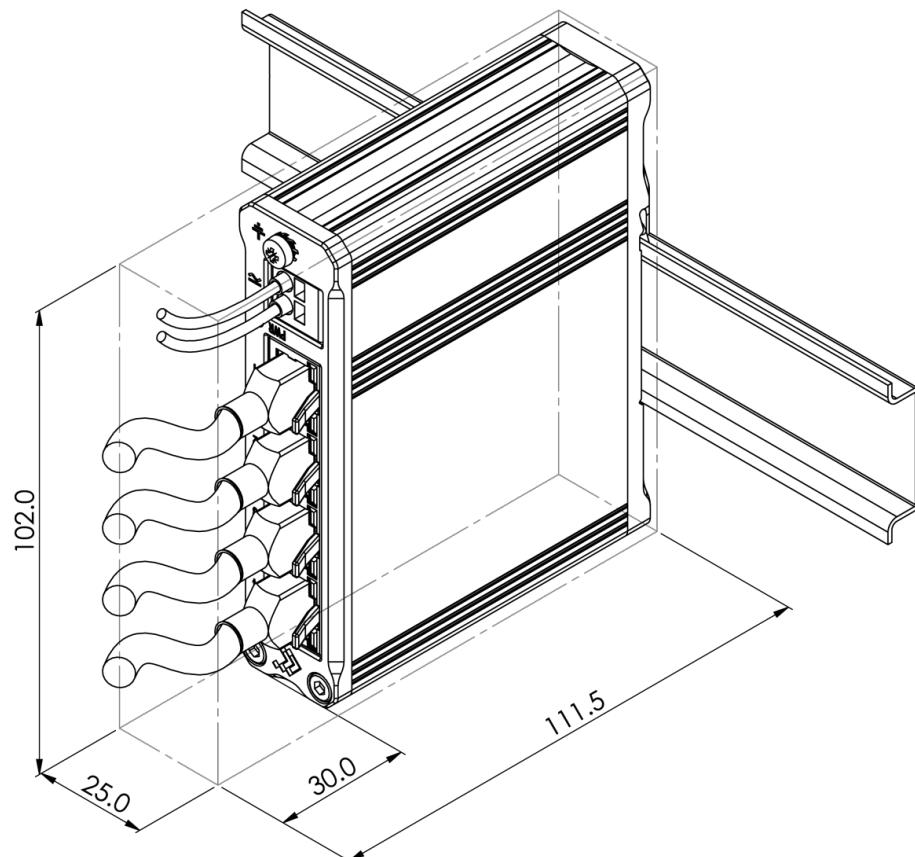
## DIN RAIL

The scheme below depicts protrusion measurements of an attached DIN Rail: