



# TSW030

8-port Ethernet Switch



Energy &  
utilities



Enterprise



Industrial &  
automation



Retail



Smart city

## 2-PIN POWER INPUT

Simple and suitable for industrial applications

## LOW POWER CONSUMPTION

Up to 0.5 W when idle, up to 1.5 W maximum

## INTEGRATED DIN RAIL

Easy mounting for plug-and-play deployment

## 8 X RJ45 PORTS

Eight 10/100 Mbps Ethernet ports

**Ethernet**

|                             |                                                              |
|-----------------------------|--------------------------------------------------------------|
| Ethernet                    | 8 x ETH ports, 10/100 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) | 20 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, overvoltage protection: 60Vmax, reverse polarity protection: 80Vmax, surge protection: min 64.4V/max 71.2V breakdown voltage, 93.6V maximum reverse voltage @4.3A maximum reverse surge current, 1- Vin, 2-PGND |
| Power consumption   | Idle: 0.5 W / Max: 1.5 W                                                                                                                                                                                                    |

**Physical Interfaces**

|             |                                      |
|-------------|--------------------------------------|
| Ethernet    | 8 x RJ45 ports, 10/100 Mbps          |
| Status LEDs | 1 x Power LED, 16 x ETH status LEDs  |
| Power       | 1 x 2-pin industrial DC power socket |
| Other       | 1 x Grounding screw                  |

**Physical Specification**

|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| Casing material        | Anodized aluminium housing and panels                                            |
| Dimensions (W x H x D) | 113.1 x 41.2 x 74.6 mm                                                           |
| Weight                 | 256 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**

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|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| Regulatory | CE, UKCA, EAC, E-mark, FCC, ISSED (IC), NOM, NYCE, RCM, REACH, RoHS, WEEE, CB, UL/CSA Safety, MTCTE |
|------------|-----------------------------------------------------------------------------------------------------|

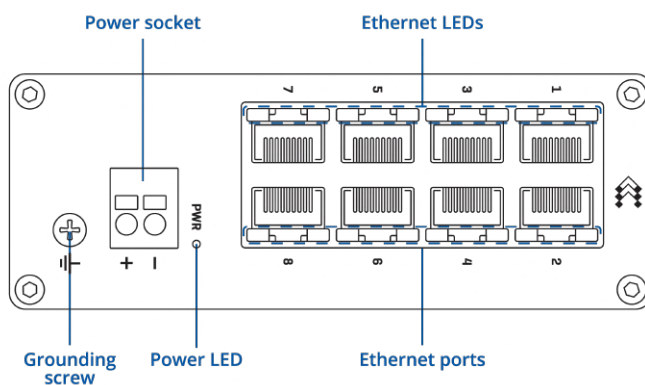
**Safety (Ordinary Locations)**

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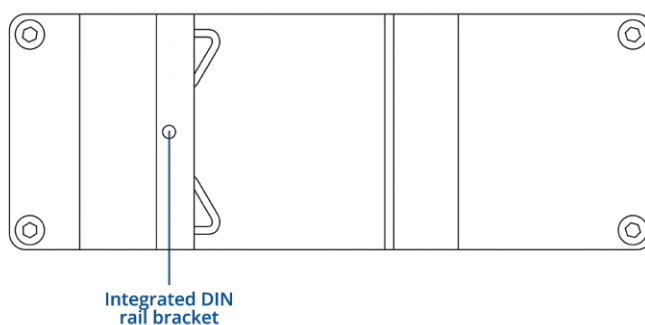
|           |                                                                                                                     |
|-----------|---------------------------------------------------------------------------------------------------------------------|
| Standards | UL/CSA Safety: UL 62368-1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

## Hardware

### FRONT VIEW



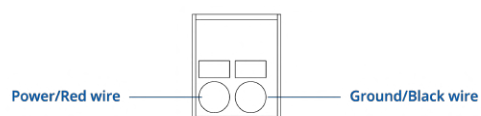
### BACK VIEW



### RJ45 LED MEANING



### POWER SOCKET PINOUT



## Ordering

Standard package\*



TSW030



QUICK START GUIDE

\*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

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

## Available versions

| Hardware version                              | Supported frequencies | Standard order code / Package Contains      |
|-----------------------------------------------|-----------------------|---------------------------------------------|
| TSW030 *****0                                 | N/A                   | TSW030000000 / Standard package without PSU |
| TSW030 *****1<br>Profinet Class A conformance | N/A                   | TSW030000001 / Standard package without PSU |

## TSW030 spatial measurements

### Available versions

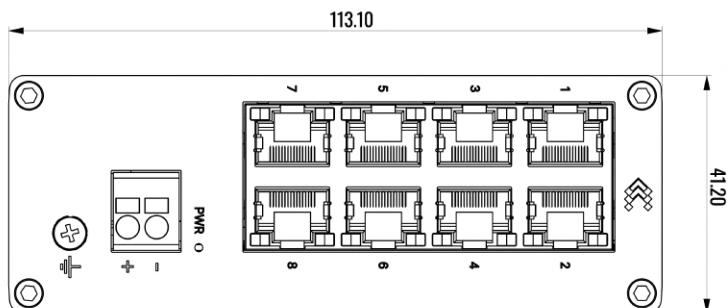
|                             |                        |
|-----------------------------|------------------------|
| Device housing (W x H x D)* | 74.6 x 41.2 x 113.1 mm |
|-----------------------------|------------------------|

|                  |                        |
|------------------|------------------------|
| Box (W x H x D): | 79.5 x 45.7 x 118.5 mm |
|------------------|------------------------|

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

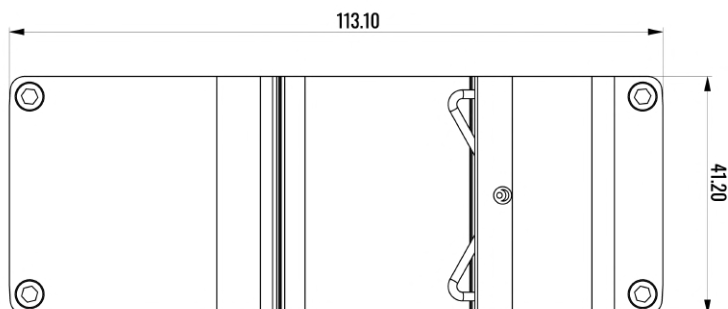
## FRONT VIEW

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



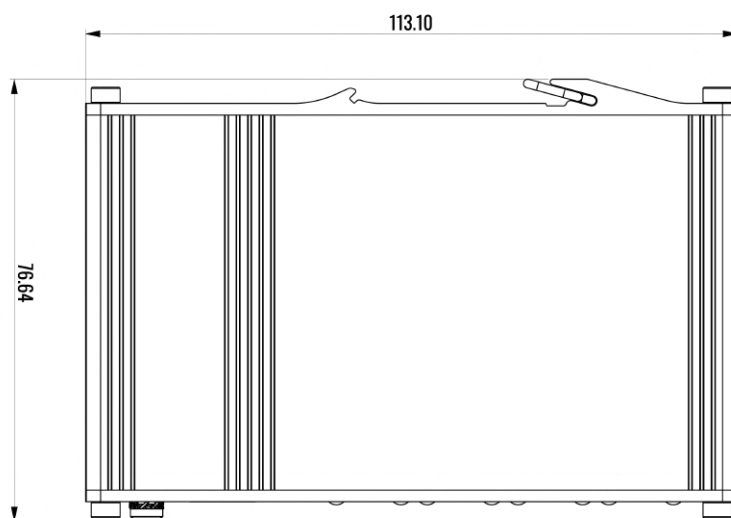
## REAR VIEW

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



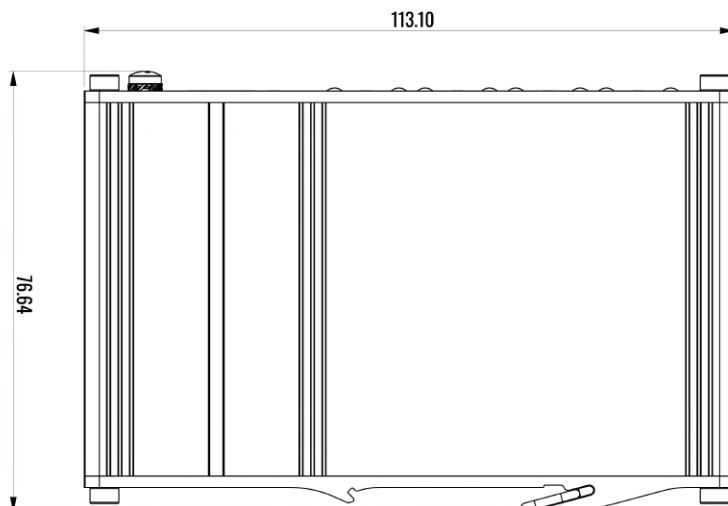
## LEFT VIEW

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



## RIGHT VIEW

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



## MOUNTING SPACE REQUIREMENTS

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

