



# SWM280

SWM280 PoE+ managed switch



Energy & utilities



Enterprise



Industrial & automation



Retail



Smart city

## POE+

Deliver power and data through 12 PoE+ ports with up to 30W per port

## L2+

Advanced routing protocols & VLAN segmentation

## CLOUD-ENABLED

Shipped with 2 years of RMS Management

## PROTOCOLS

Profinet, MRP, and EtherNet/IP for mixed industrial environments

**Ethernet**

|                             |                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------|
| Fiber                       | 4 x SFP ports                                                                          |
| IEEE 802.3 series standards | 802.3i, 802.3u, 802.3ab, 802.3x, 802.3az, 802.3ad                                      |
| ETH                         | Multi-layer managed 24 x ETH ports, 10/100/1000 Mbps, supports auto MDI/MDIX crossover |

**INDUSTRIAL PROTOCOLS**

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

**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**

|                  |                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------|
| Routing          | Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP)                                                             |
| Port aggregation | 802.3ad (LACP)                                                                                               |
| 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                             |
| Multicast        | IGMP snooping, multicast querier support                                                                     |
| 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                                 |

**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 |

## Security

|                       |                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Authentication        | PAM — preshared key, Radius & TACACS+, IP & login attempts block                                                                                    |
| VLAN                  | Port VLAN separation                                                                                                                                |
| 802.1x                | Port-based network access control client and server                                                                                                 |
| 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 |

## 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: <a href="https://developers.teltonika-networks.com">https://developers.teltonika-networks.com</a> |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Site Manager

|                 |                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Supported modes | Managed Device                                                                                                                                |
| Functionalities | FOTA updates, device status reporting, automatic reboot and port restart via ping/wget health checks, centralized VLAN and port configuration |

## Monitoring & Management

|        |                                                                                                                                                                                             |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WEB UI | HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, multiple event log servers, firmware update availability notifications, event log, system log, kernel log, Internet status |
| FOTA   | Firmware update from server, automatic notification                                                                                                                                         |
| SSH    | SSH (v1, v2)                                                                                                                                                                                |

## System Characteristics

|               |                            |
|---------------|----------------------------|
| CPU           | Realtek, 500MHz, MIPS-4KEc |
| 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                                                                                              |
| Factory settings reset | A full factory reset restores all system settings, including the IP address, PIN, and user data to the default manufacturer's configuration |

**FIRMWARE CUSTOMISATION**

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Operating system    | SwmOS (OpenWrt based Linux OS)                                                     |
| Supported languages | Busybox shell, Lua, C, C++                                                         |
| Development tools   | SDK package with build environment provided                                        |
| Package Manager     | The Package Manager is a service used to install additional software on the device |

**Performance Specifications**

|                          |             |
|--------------------------|-------------|
| Bandwidth (Non-blocking) | 56 Gbps     |
| Forwarding rate          | 83.33 Mpps  |
| Packet buffer            | 512 KB      |
| MAC address table size   | 8K entries  |
| Jumbo frame support      | 10000 bytes |

**POE OUT**

|                                 |                                                                           |
|---------------------------------|---------------------------------------------------------------------------|
| PoE+ ports                      | Port 1-12                                                                 |
| PoE standards                   | IEEE 802.3af (PoE, Type 1) and IEEE 802.3at (PoE+, Type 2), Alternative A |
| PoE Max Power per Port (at PSE) | 30 W                                                                      |
| Total PoE Power Budget (at PSE) | 300 W                                                                     |

**Power**

|                     |                                         |
|---------------------|-----------------------------------------|
| Connector           | C14 connector                           |
| Input voltage range | 100-240 VAC, 50/60 Hz                   |
| Power consumption   | Idle: 7.5 W / Max: 325 W / PoE Max: 300 |

**Physical Interfaces**

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Ethernet          | 24 x RJ45 ports, 10/100/1000 Mbps                                        |
| Fiber             | 4 x SFP ports                                                            |
| Status LEDs       | 1 x Power LED, 48 x ETH status LEDs, 1 x Status LED, 4 x SFP status LEDs |
| Power             | 1 x C14 connector                                                        |
| Reset             | Software reset button                                                    |
| Other             | 1 x Grounding screw                                                      |
| Cooling type      | Active                                                                   |
| Fans              | 2 × internal fans                                                        |
| Airflow direction | Side-to-back                                                             |

**Physical Specification**

|                        |                                       |
|------------------------|---------------------------------------|
| Casing material        | Anodised aluminium housing and panels |
| Dimensions (W x H x D) | 483 x 44 x 234 mm                     |
| Weight                 | 1842 g                                |
| Mounting options       | Rack mounting kit                     |

**Operating Environment**

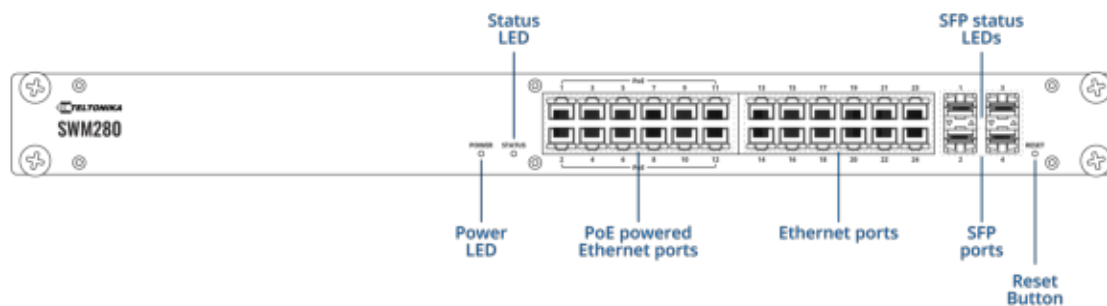
|                           |                           |
|---------------------------|---------------------------|
| Operating temperature     | 0 °C to 50 °C             |
| Operating humidity        | 10% to 90% non-condensing |
| Ingress Protection Rating | IP30                      |

## Certification

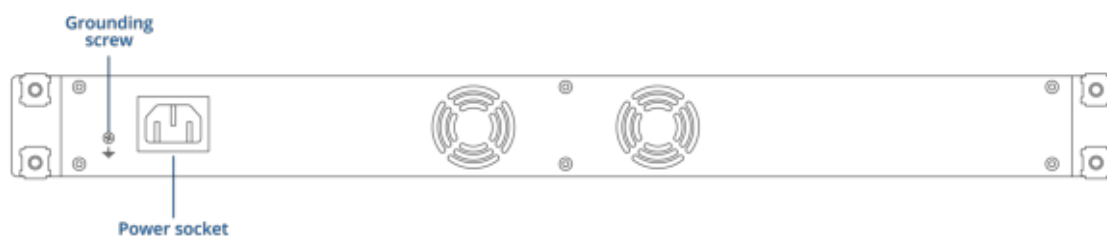
|               |                                  |
|---------------|----------------------------------|
| EMEA          | <a href="#">SWM280 CE</a>        |
|               | <a href="#">SWM280 UKCA</a>      |
|               | <a href="#">SWM280 RoHS</a>      |
|               | <a href="#">SWM280 REACH</a>     |
|               | <a href="#">SWM280 ICASA</a>     |
| APAC          | <a href="#">SWM280 RCM</a>       |
| AMERICAS      | <a href="#">SWM280 FCC</a>       |
|               | <a href="#">SWM280 IC(ISED)</a>  |
|               | <a href="#">SWM280 NOM</a>       |
| MISCELLANEOUS | <a href="#">SWM280 CB Scheme</a> |

## Hardware

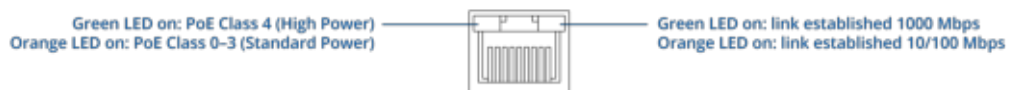
### FRONT VIEW



### BACK VIEW



### RJ45 LED MEANING



### POWER SOCKET PINOUT



## Ordering

Standard package\*



SWM280



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                                                                                                                                                                                                                                     |
|------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SWM280 *****0<br><b>PROFINET disabled by default</b> | N/A                   | SWM280000200 / Standard package without power cord<br>SWM280000700 / Standard package with EU power cord<br>SWM280000800 / Standard package with UK power cord<br>SWM280000900 / Standard package with US power cord<br>SWM280000A00 / Standard package with AU power cord |
| SWM280 *****1<br><b>Profinet Class B conformance</b> | N/A                   | SWM280000201 / Standard package without power cord                                                                                                                                                                                                                         |

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

## SWM280 spatial measurements

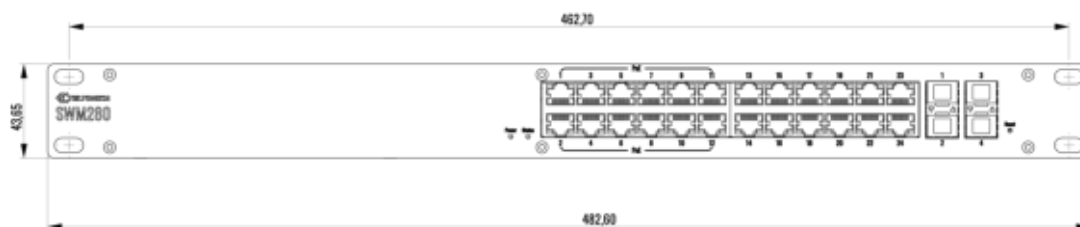
### Available versions

|                             |                   |
|-----------------------------|-------------------|
| Box:                        | 510 x 73 x 318 mm |
| Device housing (W x H x D)* | 483 x 44 x 234 mm |

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

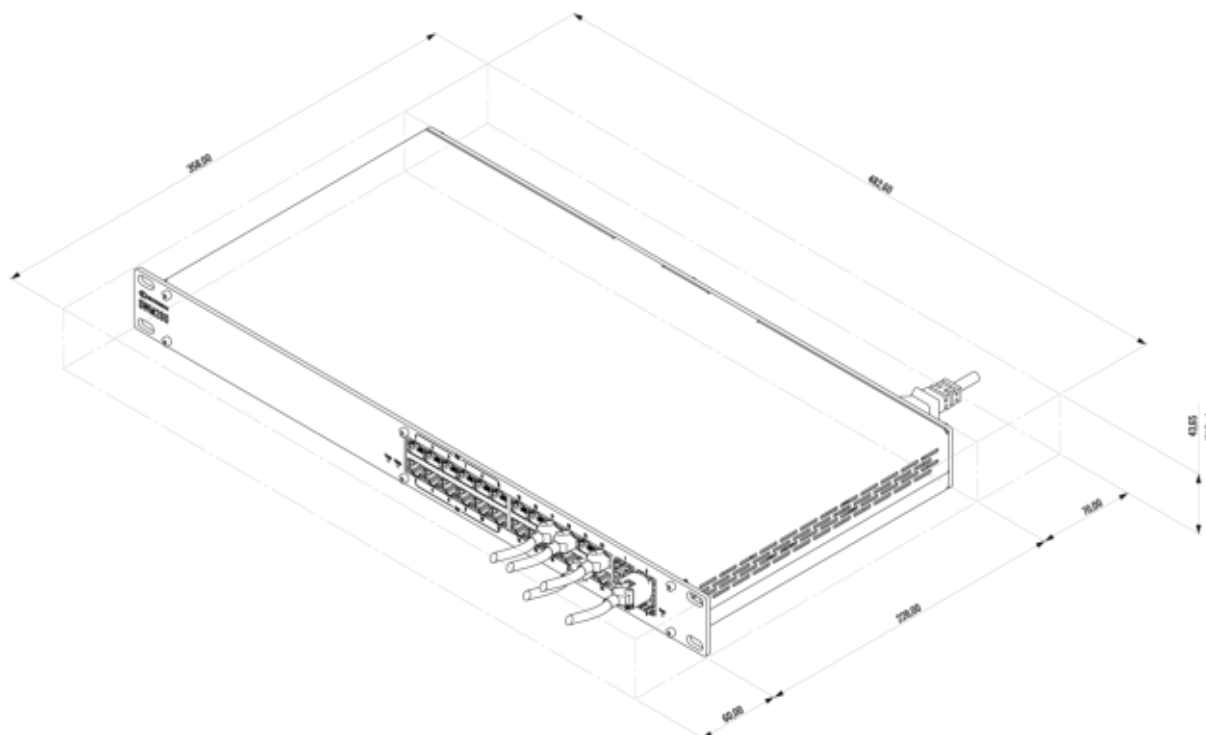
## FRONT VIEW

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



## MOUNTING SPACE REQUIREMENTS

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



## REAR VIEW

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



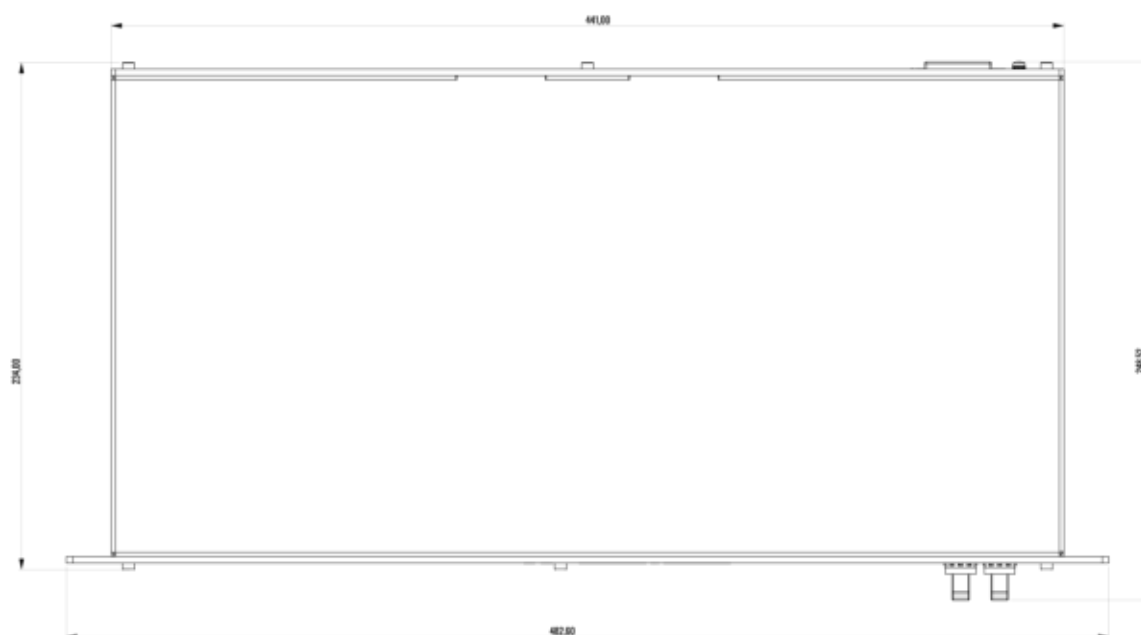
## RIGHT VIEW

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



## TOP VIEW

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



RMS

# REMOTE MANAGEMENT SYSTEM



## UNIFIED ENTERPRISE CONTROL. SIMPLIFIED.

### One Integrated Ecosystem

**Your complete networking solution:** TAP Access Points, SWM/TSW Switches, and the power of RMS – all working together on one secure platform.

- Vendor-Neutral Management: RMS manages Teltonika and 3rd-Party networking devices from a single platform.
- No Hardware Controllers: Save cost and complexity. Manage everything through RMS or local OS.
- Enterprise OS: RutOS & TswOS come with built-in VPN, VLAN/QoS, enhanced security, and powerful automation tools.

### Unmatched Remote power

- **RMS Access Included:** Get two years of free remote monitoring and configuration immediately upon purchase.
- **Interactive Network Map:** Visual 2D topology for faster diagnostics and configuration directly from the map.
- **Extend Your Reach:** Securely access any device behind your network through RMS Connect (cameras, PLCs, servers, etc.) extending management beyond our hardware.