

TSW212

v1.1



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HARDWARE

FRONT VIEW



BACK VIEW



POWER SOCKET PINOUT



RJ45 LED MEANING



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DATASHEET - TSW212

SFP LED MEANING

Down LED lit: Lower port link established Down LED blinking: Lower port active traffic



Up LED II: Upper port link established Up LED blinking: Upper port active traffic



FEATURES

Ethernet		
ЕТН	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, 802.3z	
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		
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, 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	
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	



Diag	nostics

Tools	Cable diagnostic, ping, traceroute, nslookup		
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		
Power consumption	ldle: < 2.5 W / Max: 6 W		



Physical Interfaces

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	615 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, WEEE, RoHS, REACH, SDPPI (POSTEL), JATE Kenya, ICASA, Giteki, NBCT, ICASA, PROFINET, 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		

 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*



- TSW212
- 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

TSW212 *****0 PROFINET disabled by default	N/A	TSW212000000 / Standard package
TSW212 *****1 Profinet Class B conformance	N/A	TSW212000001 / Standard package

TSW212 SPATIAL MEASUREMENTS

PHYSICAL SPECIFICATION		
Device housing (W x H x D)*	132 x 44.2 x 122 mm	
Box (W x H x D):	136 x 47 x 125 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:

