

**Data sheet | Item number: 852-303**

Industrial Managed Switch; 8-port 100Base-TX; 2-Slot 1000BASE-SX/LX;  
black metallic



[www.wago.com/852-303](http://www.wago.com/852-303)



**Item description**

The configurable 852-303 Industrial ETHERNET Switch is equipped with eight ports 10/100BASE-TX and two SFP slots 100BASE-FX/1000BASE-FX /SX (SFP modules are available as an option).

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Packaged in a rugged housing, this switch offers both a redundant power supply and relay-based function monitoring. These functions, along with extensive ETHERNET switch options, make it ideal for a wide range of applications.

#### Features:

- Web-based/SNMP management
- Redundant DC power supply
- Wide supply voltage range: 12 ... 60 VDC
- DIP switch to set alarm functions
- Fully compatible with IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.3ad, 802.3ab, 802.1d, 802.1q, 802.1p, 802.1w and 802.1x standards
- Xpress Ring (redundant ring, recovery < 50 ms)
- Non-blocking, store-and-forward switching, rapid spanning tree protocol (RSTP)
- Autonegotiation at all 10/100BASE-TX ports
- Auto-MDI/MDIX (crossover) at all 10/100BASE-TX ports
- VLAN (802.1q) VID
- IGMP snooping for multicast filtering
- Port configuration, status, statistics
- Port trunking
- SNMP v1/v2 and RMON

## Data

### Technical data

Switching mode	Store-and-forward; non-blocking
Number of 100 Mbit/s ports	8
Number of 1 Gbit/s SFP ports	2
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/FX IEEE 802.3z 1000BASE-SX/LX IEEE 802.3x Flow Control IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1q VLAN Tagging IEEE 802.1ab Link Layer Discovery Protocol (LLDP) IEEE 802.1p Prioritization IEEE 802.1x Port Authentication
Redundancy function	Redundant DC power supply; STP; RSTP; MSTP; Jet Ring < 300 ms; Xpress Ring < 20 ms; Dual Homing < 20 ms; Dual Ring; ERPSv2 < 50 ms; LCAP
Configuration options	DIP switch for signal contact Command Line Interface SNMPv1/v2c/v3
Diagnostics	Signal contact, Modbus/TCP, port status, port statistics, port load,

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	traffic monitor, SFP information, syslog, mail alarm, SNMP traps
MAC table (size)	16000 addresses
Jumbo frame size	10000. Byte
Supply voltage	12 ... 60 VDC; Cable length:< 3 m
Power consumption (max.)	12 W
ESD (contact/air discharge)	8 KV / 15 KV
Baud rate	Copper cable: 10/100 Mbit/s; Fiber optic:1000 Mbit/s
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5e or higher, 100 m maximum cable length; Fiber optic: SX Multi-Mode, LX Single-Mode
Optical fiber type	Single-Mode and Multi-Mode
VLAN	Port-based and tag-based (4k VIDs)
Controls	14 x DIP switch: Alarm function power supplies and ports 1 ... 10, 100 /1000 Mbps fiber optic ports; 1 x Reset button: system restart
Indicators	Device: LED (PWR, RPS, POST) green: Power supply (primary), redundant power supply (secondary), POST function; LED (ALM) red: Alarm; LED (LASER ON) yellow, LED (LNK/ACT, 100) green, LED (OFFLINE) red: Status of fiber optic ports; per port: LED (100, LNK /ACT) green: Status 100 Mbps, LNK/ACT ports 1 ... 8

## Connection data

Connection technology: communication/fieldbus	Copper cable: 8 x RJ-45; Fiber optic: 2 x SFP slots (e.g., with SFP module and LC fiber-optic connector)
Connection technology: supply	1 x Built-in male connector: 231-436/001-000; included female connector (MCS Connectors): 2231-106/026-000

## Physical data

Width	50 mm / 1.969 inches
Height	162 mm / 6.378 inches
Depth	120 mm / 4.724 inches

## Mechanical Data

Weight	910 g
Color	black metallic
Housing material	Aluminum
Conformity marking	CE

## Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C
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Ambient temperature (storage)	-40 ... +80 °C
Protection type	IP30
Relative humidity (without condensation)	95 %
Mounting type	DIN-35 rail
Vibration resistance	per IEC 60068-2-6
Shock resistance	per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2
EMC emission of interference	per EN 61000-6-4
Fire load	0.302 MJ

### Commercial data

eCl@ss 10.0	19-17-01-30
eCl@ss 9.0	19-17-01-06
ETIM 8.0	EC000734
ETIM 7.0	EC000734
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	TW
GTIN	4055143327176
Customs tariff number	85176200000

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Approvals / Certificates

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087 /19
	<b>KC</b> National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43- ISW852
	<b>UL</b> Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

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## Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

## Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	DNVGL-CG-339,Nov.2016	TAA0000239

## Optional accessories

## Plugs

SFP module			
	<b>Item no.: 852-1200</b> SFP Module 1000BASE; SX Multi-Mode 850 nm LC; 0.55 km; Extended temperature range; DDM; silver-colored		<a href="http://www.wago.com/852-1200">www.wago.com/852-1200</a>
	<b>Item no.: 852-1210</b> SFP Module 1000BASE; LX Single-Mode 1310 nm LC; 10 km; Extended temperature range; Digital Diagnostics Monitoring; silver-colored		<a href="http://www.wago.com/852-1210">www.wago.com/852-1210</a>
	<b>Item no.: 852-1280</b> SFP Module 1000BASE; ZX Single-Mode 1550 nm LC; 80 km; Extended temperature range; Digital Diagnostics Monitoring; silver-colored		<a href="http://www.wago.com/852-1280">www.wago.com/852-1280</a>
	<b>Item no.: 852-201/107-002</b> SFP Module 100BASE; FX Multi-Mode 1310 nm LC; 2 km; silver-colored		<a href="http://www.wago.com/852-201/107-002">www.wago.com/852-201/107-002</a>
	<b>Item no.: 852-201/107-030</b> SFP Module 100BASE; LX Single-Mode 1310 nm LC; 30 km; silver-colored		<a href="http://www.wago.com/852-201/107-030">www.wago.com/852-201/107-030</a>

## Power supplies

Power supply unit			
	<b>Item no.: 787-1632</b> Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact		<a href="http://www.wago.com/787-1632">www.wago.com/787-1632</a>
	<b>Item no.: 787-1633</b> Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost; DC OK contact		<a href="http://www.wago.com/787-1633">www.wago.com/787-1633</a>
	<b>Item no.: 787-1635</b> Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost; DC OK contact		<a href="http://www.wago.com/787-1635">www.wago.com/787-1635</a>
	<b>Item no.: 787-1602</b>		

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Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 1 A output current; NEC Class 2; DC OK signal [www.wago.com/787-1602](http://www.wago.com/787-1602)

**Item no.: 787-1622**

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost; DC OK contact [www.wago.com/787-1622](http://www.wago.com/787-1622)

**Item no.: 787-1606**

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal [www.wago.com/787-1606](http://www.wago.com/787-1606)

**Item no.: 787-1623**

Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 2 A output current; DC OK signal [www.wago.com/787-1623](http://www.wago.com/787-1623)

**Cables and pluggable connectors**

## Connector plug

**Item no.: 750-976**

PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly [www.wago.com/750-976](http://www.wago.com/750-976)

**Item no.: 750-978/000-012**

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief [www.wago.com/750-978/000-012](http://www.wago.com/750-978/000-012)

**Item no.: 750-979/000-012**

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief [www.wago.com/750-979/000-012](http://www.wago.com/750-979/000-012)

**Item no.: 750-978/000-021**

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief [www.wago.com/750-978/000-021](http://www.wago.com/750-978/000-021)

**Item no.: 750-979/000-022**

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief [www.wago.com/750-979/000-022](http://www.wago.com/750-979/000-022)

**Item no.: 750-978/000-022**

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief [www.wago.com/750-978/000-022](http://www.wago.com/750-978/000-022)

**Item no.: 750-979/000-011**

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief [www.wago.com/750-979/000-011](http://www.wago.com/750-979/000-011)

**Item no.: 750-979/000-013**

Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief [www.wago.com/750-979/000-013](http://www.wago.com/750-979/000-013)

**Item no.: 750-979/000-021**

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief [www.wago.com/750-979/000-021](http://www.wago.com/750-979/000-021)

**Item no.: 750-977/000-011**

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22 [www.wago.com/750-977/000-011](http://www.wago.com/750-977/000-011)

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Item no.: 750-978/000-013  
Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief

[www.wago.com/750-978/000-013](http://www.wago.com/750-978/000-013)

Item no.: 750-978/000-011  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief

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Item no.: 750-977/000-022  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24

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Item no.: 750-977/000-012  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22

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Item no.: 750-977/000-013  
Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22

[www.wago.com/750-977/000-013](http://www.wago.com/750-977/000-013)

Item no.: 750-977/000-021  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24

[www.wago.com/750-977/000-021](http://www.wago.com/750-977/000-021)

#### Interface module

Interface module

Item no.: 289-195  
Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection

[www.wago.com/289-195](http://www.wago.com/289-195)

## Downloads

### Documentation

#### Manual

Product Manual 8-Port 100BASE-TX + 2-Slot 1000BASE-SX/LX Industrial Switch	V 1.5.0 2019 年12月17日	pdf 14.2 MB	Download
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#### Bid Text

852-303 X81 - Datei	2019 年2月19日	xml 6.3 kB	Download
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852-303 docx - Datei	2018 年5月9日	docx 18.8 kB	Download
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### System Description

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Industrial Switches – General Product Information

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Disposal and Recycling

V 1.1.0

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Electrical and electronic equipment, Batteries, Packaging

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### Runtime Software

#### Firmware

0852-0303, Industrial-Managed-Switch

V 12

zip

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2021 年10月1日

39.6 MB

### CAD/CAE-Data

#### CAD data

2D/3D Models 852-303

URL

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#### CAE data

EPLAN Data Portal 852-303

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WSCAD Universe 852-303

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ZUKEN Portal 852-303

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### Device Files

#### Device Description File

MIB-Datei für Managed Switches 852

2016 年7月22日

mib

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MIB-Datei für Managed Switch 852-303

2016 年7月22日

MIB

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### Environmental Product Compliance

#### Compliance Search

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Environmental Product Compliance 852-303

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## Installation Notes

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