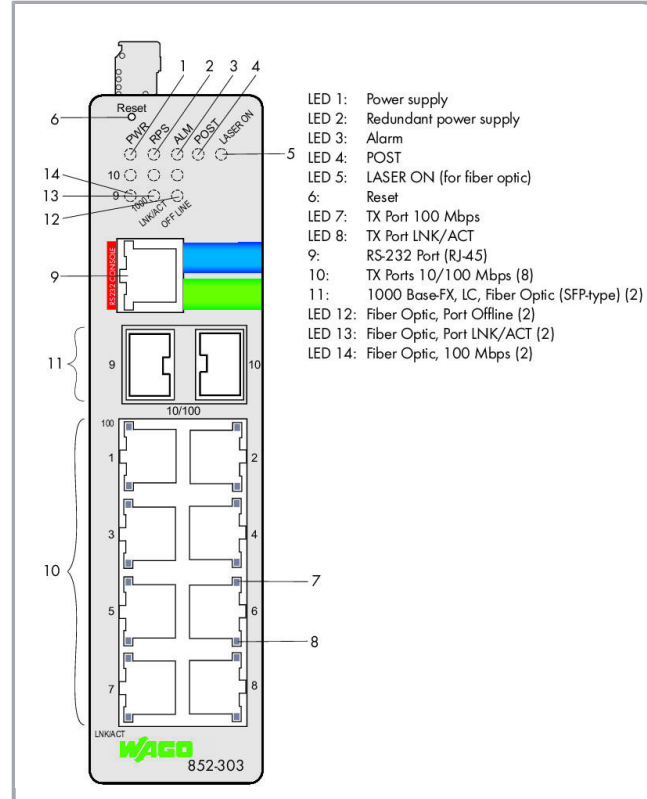


Data sheet | Item number: 852-303

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



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



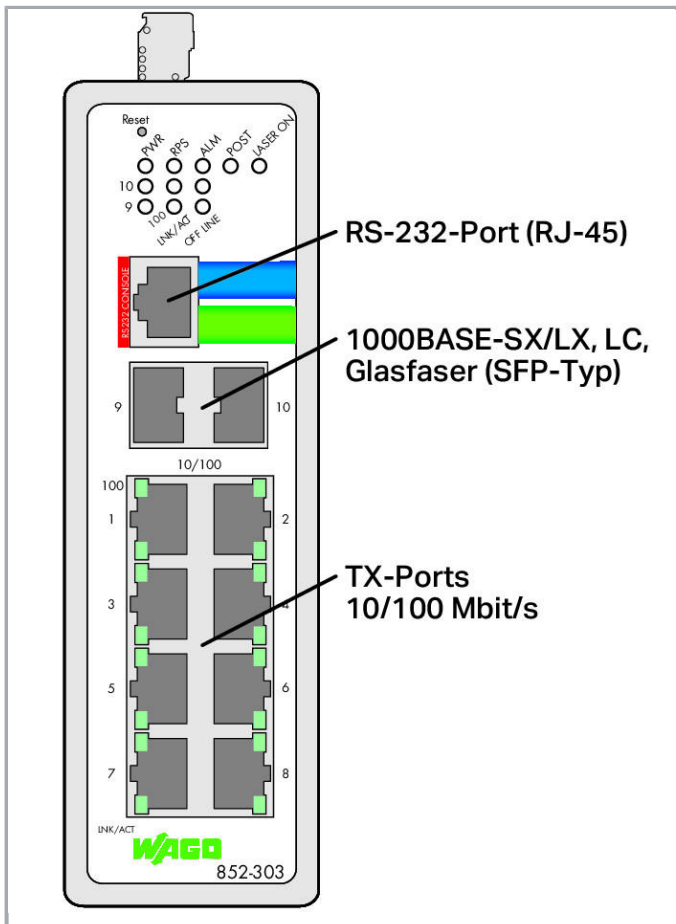
RoHS Compliant

Color:

Subject to changes. Please also observe the further product documentation!

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## Item description

The 852-303 Industrial Switch is a 8-port 10/100Base-TX and 2-port SFP 100Base-FX/1000Base-FX/SX (optional SFP modules) configurable ETHERNET switch.

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 switches 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, 802.1x standards
- Xpress Ring (redundant ring, recovery < 50 ms)
- Non-blocking, store-and-forward switching, rapid spanning tree protocol (RSTP)

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- 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

Switchingmodus	Store-and-forward; non-blocking
Number of 100Base-TX ports	8
Number of 1000Base SX/LX 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, traffic monitor, SFP information, syslog, mail alarm, SNMP traps
MAC table (large)	16000 addresses
Jumbo frame size	10000. Byte
Supply voltage	DC 12 ... 60 V; Cable length:< 3 m
Energy 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
LWL-Fasertyp	Single-Mode and Multi-Mode
VLANs	Port-based and tag-based (4k VIDs)

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Panel	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; LC fiber-optic connector
Anschlussstechnik: Versorgung	1 x Built-in male connector: 231-436/001-000; included female connector (MCS Connectors): 2231-106/026-000

## Geometrical Data

Width	50 mm / 1.969 inch
Height from upper-edge of DIN-35 rail	120 mm / 4.724 inch
Depth	162 mm / 6.378 inch

## Mechanical data

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

## Environmental Requirements

Surrounding air (operating) temperature	-40 ... 70 °C
Surrounding air (storage) temperature	-40 ... 80 °C
Protection class	IP30
Relative air humidity (no condensation)	95 %
Type of mounting	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

## Commercial data

Packaging type	BOX
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Country of origin	TW
GTIN	4055143327176
Customs Tariff No.	85176200000

## Counterpart

## Compatible products

### wiring and connectors

	<b>Item no.: 750-976</b> PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly	<a href="http://www.wago.com/750-976">www.wago.com/750-976</a>
	<b>Item no.: 750-977/000-011</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22	<a href="http://www.wago.com/750-977/000-011">www.wago.com/750-977/000-011</a>
	<b>Item no.: 750-977/000-012</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22	<a href="http://www.wago.com/750-977/000-012">www.wago.com/750-977/000-012</a>
	<b>Item no.: 750-977/000-013</b> Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22	<a href="http://www.wago.com/750-977/000-013">www.wago.com/750-977/000-013</a>
	<b>Item no.: 750-977/000-021</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24	<a href="http://www.wago.com/750-977/000-021">www.wago.com/750-977/000-021</a>
	<b>Item no.: 750-977/000-022</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24	<a href="http://www.wago.com/750-977/000-022">www.wago.com/750-977/000-022</a>
	<b>Item no.: 750-978/000-011</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief	<a href="http://www.wago.com/750-978/000-011">www.wago.com/750-978/000-011</a>
	<b>Item no.: 750-978/000-012</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief	<a href="http://www.wago.com/750-978/000-012">www.wago.com/750-978/000-012</a>
	<b>Item no.: 750-978/000-013</b> Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief	<a href="http://www.wago.com/750-978/000-013">www.wago.com/750-978/000-013</a>

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**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.:** 750-978/000-022

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.:** 750-979/000-012

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.:** 750-979/000-013

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.:** 750-979/000-022

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)

#### General accessories

**Item no.:** 852-1200

SFP Module 1000BASE; SX Multi-Mode 850 nm LC; 0.55 km; Extended temperature range; DDM; silver-colored [www.wago.com/852-1200](http://www.wago.com/852-1200)

**Item no.:** 852-1210

SFP Module 1000BASE; LX Single-Mode 1310 nm LC; 10 km; Extended temperature range; DDM; silver-colored [www.wago.com/852-1210](http://www.wago.com/852-1210)

**Item no.:** 852-1280

SFP Module 1000BASE; ZX Single-Mode 1550 nm LC; 80 km; Extended temperature range; DDM; silver-colored [www.wago.com/852-1280](http://www.wago.com/852-1280)



**Item no.:** 852-201/107-002

SFP module 2: 1310nm; 100Base-FX Multi-Mode LC; 2 km; silver-colored

[www.wago.com/852-201/107-002](http://www.wago.com/852-201/107-002)



**Item no.:** 852-201/107-030

SFP module 30: 1310nm; 100Base-FX Single-Mode LC; 30 km; silver-colored

[www.wago.com/852-201/107-030](http://www.wago.com/852-201/107-030)

#### transfer 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)

#### power supply

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	<b>Item no.: 787-1602</b> Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 1 A output current; NEC Class 2; DC OK signal	<a href="http://www.wago.com/787-1602">www.wago.com/787-1602</a>
	<b>Item no.: 787-1606</b> Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal	<a href="http://www.wago.com/787-1606">www.wago.com/787-1606</a>
	<b>Item no.: 787-1622</b> Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost; DC OK contact	<a href="http://www.wago.com/787-1622">www.wago.com/787-1622</a>
	<b>Item no.: 787-1623</b> Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 2 A output current; DC OK signal	<a href="http://www.wago.com/787-1623">www.wago.com/787-1623</a>
	<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>

## Downloads

### Documentation

#### Manual

8-Port 100BASE-TX + 2-Slot 1000BASE-SX/LX Industrial Switch	V 1.5.0 Dec 17, 2019	pdf 14.2 MB	Download
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#### Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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#### System Description

Industrial Switches – General Product Information		pdf 2.0 MB	Download
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## Runtime Software

#### Firmware

Firmware: 852-303 Industrial-Managed-Switch; 8-port 100Base-TX; 2-Slot 1000BASE-SX/LX; metallic black	06 Jun 7, 2019	zip 10.1 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 852-303	URL	Download
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### CAE data

EPLAN Data Portal 852-303	URL	Download
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WSCAD Universe 852-303	URL	Download
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## Device Files

### Device Description File

MIB File for 852 Managed Switch	Jul 22, 2016	MIB 15.7 kB	Download
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MIB File for 852-303 Managed Switch	Mar 27, 2017	MIB 21.8 kB	Download
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## Installation Notes

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