

Data sheet | Item number: 852-102

Industrial-Switch; 8-port 100Base-TX; black

[www.wago.com/852-102](http://www.wago.com/852-102)



Color:



### Item description

This unmanaged industrial ETHERNET switch (852-102) has eight Fast ETHERNET ports for easily setting up small- to medium-sized networks. Its slim design paired with a DIN-rail adapter simplifies installation in the control cabinet and provides high vibration and shock resistance. Additionally, automatic transmission rate detection (auto-negotiation) and automatic identification of the transmit and receive lines (Auto MDI-X) allow simple plug-and-play operation, saving time and money during commissioning.

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

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Status LEDs, a redundant power supply and an alarm contact (configurable via DIP switch) increase the switch's redundancy and diagnostic capabilities, providing higher operational uptime.

#### Features:

- Redundant DC power supply
- Large supply voltage range: 9 ... 48 V
- DIP switch to set alarm functions
- Full compliance with IEEE802.3, 802.3u standards
- Non-blocking, store-and-forward switching
- Autonegotiation at all 10/100Base TX ports
- Auto-MDI/MDIX (crossover) at all 10/100BASE-TX ports

## Data

### Technical data

Switching mode	Store-and-forward; non-blocking
Number of 100 Mbit/s ports	8
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x Flow Control
Redundancy function	Redundant DC power supply
Configuration options	DIP switch for signal contact
Diagnostics	Signal contact
MAC table (size)	2000 addresses
Jumbo frame size	1536. Byte
Supply voltage	9 ... 48 VDC; Cable length:< 3 m
Power consumption (max.)	5.28 W
Power consumption (typ.) (24 V)	4.56 W
ESD (contact/air discharge)	8 KV / 15 KV
Baud rate	Copper cable: 10/100 Mbit/s
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5 or higher, 100 m maximum cable length
Packet throughput	148,800 pkt/s
Controls	12 x DIP switch: Alarm function power supplies and ports 1 ... 8
Indicators	Device: LED (PWR, RPS) green: Power supply (primary), redundant power supply (secondary); LED (ALM) red: Alarm; per port: LED (100, LNK/ACT) green: Status 100 Mbps, LNK/ACT ports 1 ... 8

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



## Connection data

Connection technology: communication/fieldbus	Copper cable: 8 x RJ-45
Connection technology: supply	1 x Built-in male connector: 231-436/001-000; included female connector (MCS Connectors): 231-106/026-000

## Physical data

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

## Mechanical Data

Weight	860 g
Color	black
Housing material	Aluminum
Conformity marking	CE

## Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C (UL max. +60 °C)
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

## Commercial data

Product Group	27 (special components I/O)
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

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Packaging type	box
Country of origin	TW
GTIN	4045454665944
Customs tariff number	8517620000

## 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 508	E175199 Sec.7

### Declarations of conformity and manufacturer's declarations

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

## Optional accessories

### Power supplies

Power supply unit	
<b>Item no.: 787-1722</b> Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED	<a href="http://www.wago.com/787-1722">www.wago.com/787-1722</a>
<b>Item no.: 787-1712</b> Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED	<a href="http://www.wago.com/787-1712">www.wago.com/787-1712</a>
<b>Item no.: 787-1702</b> Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED	<a href="http://www.wago.com/787-1702">www.wago.com/787-1702</a>
<b>Item no.: 787-1632</b> Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current;	<a href="http://www.wago.com/787-1632">www.wago.com/787-1632</a>

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



TopBoost; DC OK contact

**Item no.: 787-1102**

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC-OK LED [www.wago.com/787-1102](http://www.wago.com/787-1102)

**Item no.: 787-1602**

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)

**Cables and pluggable connectors**

Connector plug

**Item no.: 750-975**

ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

[www.wago.com/750-975](http://www.wago.com/750-975)

**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)

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Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief

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Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief

[www.wago.com/750-978/000-011](http://www.wago.com/750-978/000-011)

**Item no.: 750-977/000-022**

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24

[www.wago.com/750-977/000-022](http://www.wago.com/750-977/000-022)

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Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22

[www.wago.com/750-977/000-012](http://www.wago.com/750-977/000-012)

**Item no.: 750-977/000-013**

Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22

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**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)

**Item no.: 289-175**

Interface module; RJ-45; PCB terminal blocks, double-row; Cat. 5; in mounting carrier; with shield connection; with shield clamping saddle; 1,50 mm<sup>2</sup>

[www.wago.com/289-175](http://www.wago.com/289-175)

**Item no.: 289-172**

Interface module; RJ-45; RJ-45; Cat. 5; in mounting carrier

[www.wago.com/289-172](http://www.wago.com/289-172)

**Item no.: 289-196**

Interface module; RJ-45; with power jumper contacts; PCB terminal blocks; Cat. 5

[www.wago.com/289-196](http://www.wago.com/289-196)

**Downloads**

**Documentation**

**Manual**

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### Bid Text

852-102 X81 - Datei	2019 年2月19 日	xml 4.7 kB	Download
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852-102 docx - Datei	2018 年5月9 日	docx 17.1 kB	Download
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### Instruction Leaflet

Gebrauchs- und Montageanleitung 852-101 /852-102 / 852-103 / 852-104		pdf 1.7 MB	Download
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### Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
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### System Description

Industrial Switches – General Product Information		pdf 1.9 MB	Download
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### CAD/CAE-Data

#### CAD data

2D/3D Models 852-102		URL	Download
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#### CAE data

EPLAN Data Portal 852-102		URL	Download
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WSCAD Universe 852-102		URL	Download
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ZUKEN Portal 852-102		URL	Download
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### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 852-102

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## Installation Notes

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