

Data sheet | Item number: 852-103/040-000

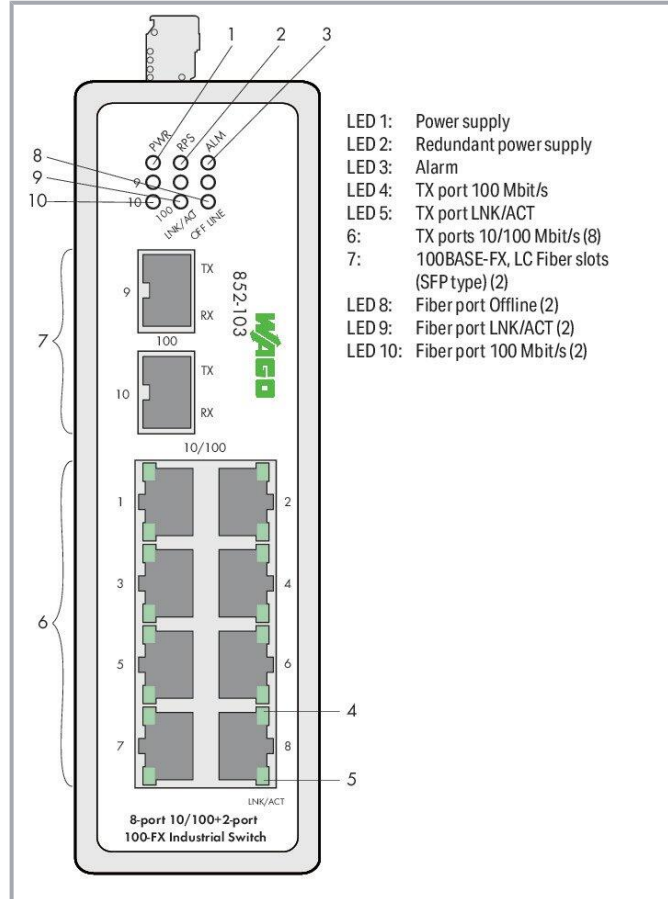
Industrial-Switch; 8-port 100Base-TX; 2 Slots 100Base-FX; Extended temperature range; EXT; black

[www.wago.com/852-103/040-000](http://www.wago.com/852-103/040-000)



 Picture differs from the item.

Color: 



**Item description**

This unmanaged industrial ETHERNET switch (852-103/040-000) has eight Fast ETHERNET ports and 2 SFP slots (100BASE modules) 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

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

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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.

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
Number of 100 Mbit/s SFP ports	2
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/FX 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.)	6.08 W
Power consumption (typ.) (24 V)	5.76 W
ESD (contact/air discharge)	8 KV / 15 KV
Baud rate	Copper cable: 10/100 Mbit/s; Fiber optic:100 Mbit/s
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5 or higher, 100 m maximum cable length; Fiber optic: FX Multi-Mode, LX Single-Mode
Optical fiber type	Single-Mode and Multi-Mode
Packet throughput	148,800 pkt/s
Controls	12 x DIP switch: Alarm function power supplies and ports 1 ... 10

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## Indicators

Device: LED (PWR, RPS) green: Power supply (primary), redundant power supply (secondary); LED (ALM) red: Alarm; LED (LNK/ACT, 100) green, LED (OFFLINE) red: Status 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): 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 887 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 ... +85 °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

eCl@ss 10.0 19-17-01-30

eCl@ss 9.0 19-17-01-06

ETIM 8.0 EC000734

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ETIM 7.0	EC000734
PU (SPU)	1 pcs
Packaging type	box
Country of origin	TW
GTIN	4050821157663
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
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087 /19
	KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43- ISW852

### Declarations of conformity and manufacturer's declarations


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

## Optional accessories

### Interface module


Interface module		
	<b>Item no.: 289-195</b> Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection	<a href="http://www.wago.com/289-195">www.wago.com/289-195</a>
	<b>Item no.: 289-175</b> 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>	<a href="http://www.wago.com/289-175">www.wago.com/289-175</a>
	<b>Item no.: 289-172</b> Interface module; RJ-45; RJ-45; Cat. 5; in mounting carrier	<a href="http://www.wago.com/289-172">www.wago.com/289-172</a>


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	<b>Item no.: 289-196</b> Interface module; RJ-45; with power jumper contacts; PCB terminal blocks; Cat. 5	<a href="http://www.wago.com/289-196">www.wago.com/289-196</a>
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**Plugs**


SFP module


	<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>
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	<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>
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**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>
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	<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>
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	<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>
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	<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>
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	<b>Item no.: 787-1102</b> Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC-OK LED	<a href="http://www.wago.com/787-1102">www.wago.com/787-1102</a>
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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>
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	<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>
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	<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>
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**Cables and pluggable connectors**

Connector plug

	<b>Item no.: 750-975</b> ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly	<a href="http://www.wago.com/750-975">www.wago.com/750-975</a>
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	<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>
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**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

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**Item no.: 750-978/000-022**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief

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**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

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**Item no.: 750-977/000-011**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22

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

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

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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

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## Downloads Documentation

### Manual

Product Manual 8-Port 100 BASE-TX + 2-Slot 100 BASE-FX Industrial Switch	V 1.0.3 2020 Jul 14	pdf 1.3 MB	Download
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### Bid Text

852-103/040-000 X81 - Datei	2019 Feb 19	xml 5.2 kB	Download
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852-103/040-000 docx - Datei	2018 May 9	docx 15.5 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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### System Description

Industrial Switches – General Product Information		pdf 1.9 MB	Download
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### Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
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## CAD/CAE-Data

### CAE data

EPLAN Data Portal 852-103/040-000		URL	Download
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WSCAD Universe 852-103/040-000	<a href="#">URL</a>	<a href="#">Download</a>
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 852-103/040-000	<a href="#">URL</a>	<a href="#">Download</a>
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Industrial-Switch; 8-port 100Base-TX; 2 Slots 100Base-FX; Extended temperature range; EXT; black

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## Installation Notes

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