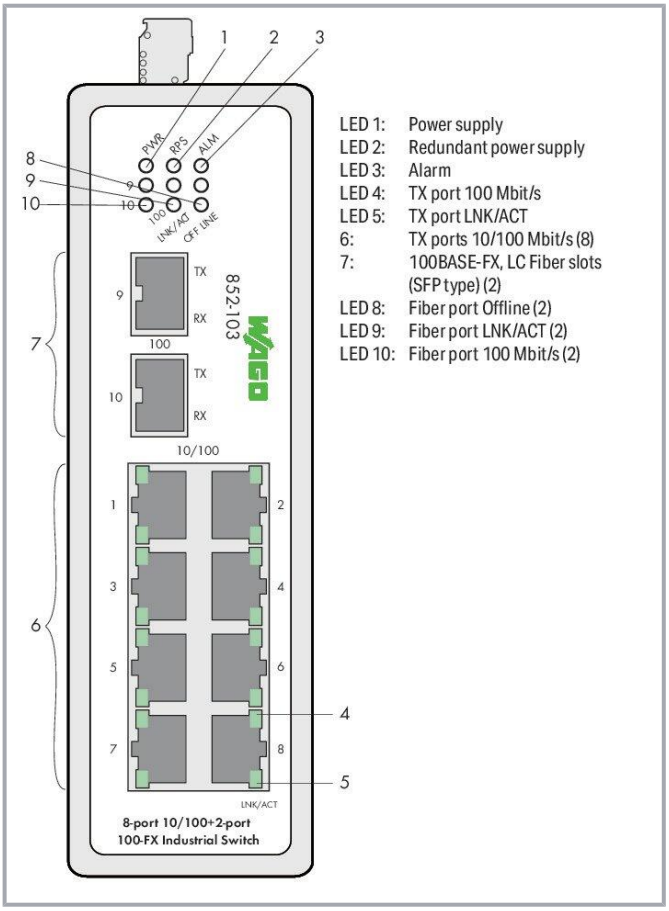
Data sheet | Item number: 852-103

Industrial-Switch; 8-port 100Base-TX; 2 Slots 100Base-FX; black

www.wago.com/852-103



Color:



Item description

This unmanaged industrial ETHERNET switch (852-103) 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 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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Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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We are always happy to take your call at +49 (571) 887-44222.

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 Mbps ports	8
Number of 100 Mbit/s ports SFP	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
Transmission 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
Control Elements	12 x DIP switch: Alarm function power supplies and ports 1 … 10
Indicators	Device: LED (PWR, RPS) green: Power supply (primary), redundant power supply (secondary); LED (ALM) red: Alarm; LED (LNK/ACT,

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	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	922 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

Product Group	27 (special components I/O)
eCl@ss 10.0	19-17-01-30
eCl@ss 9.0	19-17-01-06
ETIM 9.0	EC000734
ETIM 8.0	EC000734

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Recupel Type	
ECCN	NO DATA
PU (SPU)	1 pcs
Packaging type	box
Country of origin	TW
GTIN	4045454665951
Customs tariff number	85176200000

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
	KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-ISW852
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.7

Declarations of conformity and manufacturer's declarations

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

Optional accessories

Cables and pluggable connectors

Connector plug

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Item no.: 750-975
ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly
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



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



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



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



Item no.: 750-979/000-022
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief
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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



Item no.: 750-979/000-013
Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief
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.: 750-977/000-021
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24
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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



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 mm²
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



Item no.: 289-196
Interface module; RJ-45; with power jumper contacts; PCB terminal blocks; Cat. 5
www.wago.com/289-196

Plugs

SFP module



Item no.: 852-201/107-002
SFP Module 100BASE; FX Multi-Mode 1310 nm LC; 2 km; silver-colored
www.wago.com/852-201/107-002



Item no.: 852-201/107-030
SFP Module 100BASE; LX Single-Mode 1310 nm LC; 30 km; silver-colored
www.wago.com/852-201/107-030

Downloads

Documentation

Manual

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

Bid Text

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852-103 X81 - Datei	Feb 19, 2019	xml 5.2 kB	Download
852-103 docx - Datei	May 9, 2018	docx 15.4 kB	Download

Instruction Leaflet

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

Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 Aug 18, 2022	pdf 2.2 MB	Download

System Description

Industrial Switches – General Product Information		pdf 1.9 MB	Download

CAD/CAE-Data

CAD data

2D/3D Models 852-103	URL	Download

CAE data

EPLAN Data Portal 852-103	URL	Download
WSCAD Universe 852-103	URL	Download
ZUKEN Portal 852-103	URL	Download

Asset Administration Shell

Asset Administration Shell 852-103	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 852-103	URL	Download

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Installation Notes

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