

### Item description

The configurable 852-1328 Industrial ETHERNET Switch is equipped with eight 10/100/1000BASE-T ports and two 1000BASE-SX/LX SFP ports (SFP modules are optional). Data encryption complies with IEEE802.1AE (MAC Security Standard) for communication via SFP slots (ports 7 and 8). This functionality, combined with compact dimensions, makes WAGO's managed switch ideal for retrofitting network security during operation of the automation system. The customer application remains unchanged. The optional authentication of the other participants in the network is port-specific in accordance with IEEE 802.1X and RADIUS server.

Packaged in a rugged housing, this switch offers a redundant power supply.

### Features:

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



- Web-based (HTTP(S))
- Configuration and diagnostics via SNMPv3
- Redundant DC power supply
- Supply voltage range: 9 ... 48 VDC
- Full compliance with IEEE802.3, 802.3u, 802.3z, 802.3x, 802.3ab, 802.1p, 802.1X, 802.1Q and 802.1AE standards
- Non-blocking, store-and-forward switching
- Auto-negotiation at all 10/100/1000BASE-T ports
- Auto-MDI/MDIX (crossover) at all 10/100/1000Base-T ports
- SNMP v1/v2c/v3

## Data

### Technical data

Switching mode	Store-and-forward; non-blocking
Number of 1 Gbit/s ports	6
Number of 1 Gbit/s SFP ports	2
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-SX/LX IEEE 802.3x Flow Control IEEE 802.1p Prioritization IEEE 802.1x Port Authentication IEEE 802.1Q VLAN Tagging IEEE 802.1AE MAC Security
Redundancy function	Redundant DC power supply
Configuration options	Web-based (HTTP(S)) SNMPv1/v2c/v3
Diagnostics	Modbus TCP; Port status; Syslog; SNMP traps
MAC table (size)	16000 addresses
Supply voltage	9 ... 48 VDC
Power consumption (max.)	5.8 W
ESD (contact/air discharge)	8 KV / 15 KV
Baud rate	Copper cable: 10/1000 Mbit/s; Fiber optic:1000 Mbit/s
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 (100M/1G, LNK/ACT) green: Status 100 Mbit/s/1 Gbit/s, LNK/ACT ports 1 ... 6; LED ports 7, 8 green: Fiber optic port status

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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Connection data

Connection technology: communication/fieldbus	Copper cable: 6 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: 231-435/001-000; included female connector (MCS Connectors): 2231-105/026-000

## Physical data

Width	45.3 mm / 1.783 inches
Height	110 mm / 4.331 inches
Depth	92 mm / 3.622 inches

## Mechanical Data

Weight	639 g
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## Environmental requirements

Ambient temperature (operation)	-20 ... +70 °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 55011, 55024, 55032 (Class A + B), 61000-6-3, -4

## Commercial data

ETIM 8.0	EC000734
ETIM 7.0	EC000734
PU (SPU)	1 pcs
Country of origin	TW
GTIN	4055143978415
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
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 62368-1	E175199

### 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			
	<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.: 750-978/000-012</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.: 750-979/000-012</b> Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief		<a href="http://www.wago.com/750-979/000-012">www.wago.com/750-979/000-012</a>
	<b>Item no.: 750-978/000-021</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief		<a href="http://www.wago.com/750-978/000-021">www.wago.com/750-978/000-021</a>
	<b>Item no.: 750-979/000-022</b> Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief		<a href="http://www.wago.com/750-979/000-022">www.wago.com/750-979/000-022</a>

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**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

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**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)



**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)



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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)

#### Power supplies

Power supply unit









**Item no.: 787-1632**  
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current;

[www.wago.com/787-1632](http://www.wago.com/787-1632)






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TopBoost; DC OK contact

	<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> 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.: 787-1622</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.: 787-1606</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.: 787-1623</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>

## 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>

## Downloads

### Documentation

#### Manual

Product Manual Industrial Managed Switch 6-Port 1000BASE-T; 2-Slot 1000BASE-SX/LX; MAC Security	V 1.2.0 2021 Oct 14	pdf 8.4 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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## Runtime Software

### Firmware

0852-1328, Industrial-Managed-Switch WAGO_FW0852-1328_V20210830_IX02	V 02 2021 Aug 30	zip 9.3 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 852-1328		URL	Download
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### CAE data

EPLAN Data Portal 852-1328		URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 852-1328 Industrial-Managed-Switch; 6-Port 1000BASE-T; 2-Slot 1000BASE-SX/LX; MAC Security		URL	Download
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## Installation Notes

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