

Data sheet | Item number: 852-1305/000-001

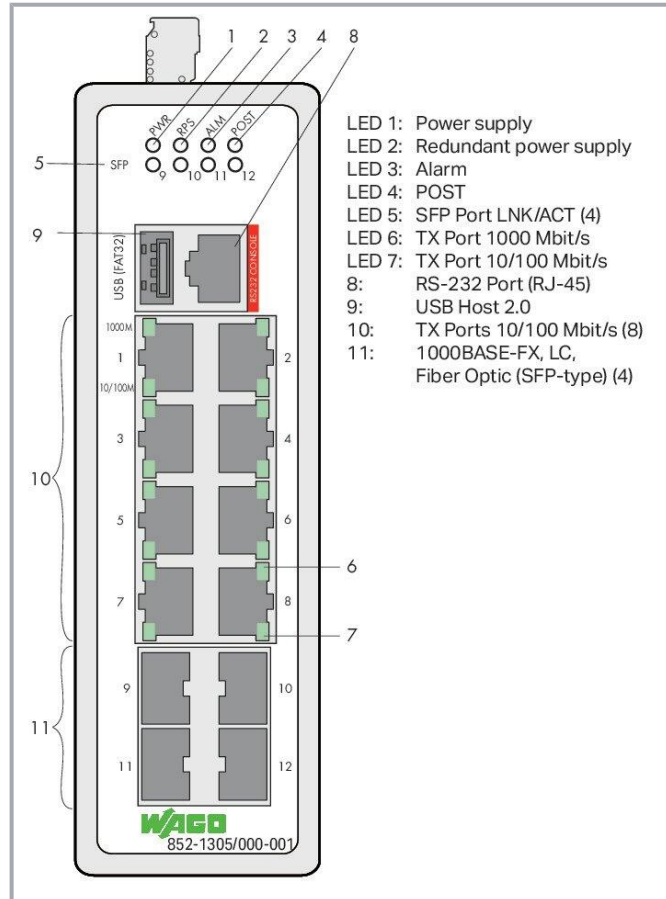
Industrial Managed Switch; 8 Ports 1000Base-T; 4-Slot 1000BASE-SX/LX;
Extended temperature range; USB; black metallic



www.wago.com/852-1305/000-001



Color: ■



Item description

The configurable 852-1305/000-001 Industrial ETHERNET Switch is equipped with eight 10/100/1000BASE-T ports and four 1000BASE-SX/LX SFP ports (SFP modules are available as an option).

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

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

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?

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



- Power supply range: 12 ... 48 VDC
- Diagnostics via Modbus® and SNMP
- DIP switches to set alarm functions
- Autonegotiation at all 10/100/1000Base-T ports
- Auto-MDI/MDIX (crossover) at all 10/100/1000Base-T ports
- IGMP snooping for multicast filtering
- Port configuration, status, statistics
- Port trunking
- SNMP v1/v2c and RMON
- Approval (IEC 61850-3) for the energy market
- Firmware update and switch configuration via USB storage medium

Data

Technical data

Switching mode	Store-and-forward; non-blocking
Number of 1 Gbit/s ports	8
Number of 1 Gbit/s SFP ports	4
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 802.1d Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) IEEE 802.1Q VLAN Tagging IEEE 802.1p Prioritization IEEE 802.1x Port Authentication IEEE 802.1ab Link Layer Discovery Protocol (LLDP) IEEE 802.3ad Link Aggregation ITU-T G8032v1/v2 Ethernet Ring Protection Switching (ERPS)
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 Web-Based Management Command Line Interface SNMPv1/v2c/v3 USB storage medium
Diagnostics	Signal contact; Modbus TCP; Port status; Port statistics; Port load; Traffic monitor; SFP information; Syslog; Mail alarm; SNMP traps; Loop detection; ...

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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



MAC table (size)	16000 addresses
Jumbo frame size	10000. Byte
Supply voltage	12 ... 48 VDC
Power consumption (max.)	18 W
ESD (contact/air discharge)	8 KV / 15 KV
Baud rate	Copper cable: 10/1000 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
Optical fiber type	Single-Mode and Multi-Mode
VLAN	Port-based and tag-based (4k VIDs)
Controls	2 x DIP switch: Alarm function power supplies
Indicators	Device: LED (PWR, RPS, POST) green: power supply (primary), redundant power supply (secondary), POST function; LED (ALM) red: Alarm; LED (SFP) green, 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: 4 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): 2231-106/026-000

Physical data

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

Mechanical Data

Weight	855 g
Color	black metallic

Environmental requirements

Ambient temperature (operation)	-40 ... +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

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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

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
Fire load	0.302 MJ

Commercial data



ETIM 8.0	EC000734
ETIM 7.0	EC000734
PU (SPU)	1 pcs
Packaging type	box
Country of origin	TW
GTIN	4055143898133
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 Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE. AM02.B.00087 /19
	IEC Interocean EMC Technology Corp.	IEC 61850-3	18A092117E_C
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199








Declarations of conformity and manufacturer's declarations

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





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

Optional accessories



Power supplies

Power supply unit		
	Item no.: 787-1632 Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact	www.wago.com/787-1632
	Item no.: 787-1633 Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost; DC OK contact	www.wago.com/787-1633
	Item no.: 787-1635 Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost; DC OK contact	www.wago.com/787-1635
	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
	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
	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
	Item no.: 787-1623 Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 2 A output current; DC OK signal	www.wago.com/787-1623

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 mm ²	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.: 852-1200 SFP Module 1000BASE; SX Multi-Mode 850 nm LC; 0.55 km; Extended temperature range; DDM; silver-colored	www.wago.com/852-1200
	Item no.: 852-1210 SFP Module 1000BASE; LX Single-Mode 1310 nm LC; 10 km; Extended temperature range; Digital Diagnostics Monitoring; silver-colored	www.wago.com/852-1210

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



Item no.: 852-1280

SFP Module 1000BASE; ZX Single-Mode 1550 nm LC; 80 km; Extended temperature range; Digital Diagnostics Monitoring; silver-colored

www.wago.com/852-1280

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



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

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



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

www.wago.com/750-979/000-021



Item no.: 750-977/000-011

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

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

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

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?

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



Item no.: 750-978/000-011
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief

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



Item no.: 750-977/000-012
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22

www.wago.com/750-977/000-012



Item no.: 750-977/000-013
Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22

www.wago.com/750-977/000-013



Item no.: 750-977/000-021
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24

www.wago.com/750-977/000-021

Downloads

Documentation

Manual

Product Manual 8 Port 1000BASE-T + 4-Slot 1000BASE SX-LX Industrial Managed Switch Extended Temperature Range, USB	V 1.0.0 2019 Sep 9	pdf 15.6 MB	Download
---	-----------------------	----------------	----------

Bid Text

852-1305/000-001 docx - Datei	2019 May 22	docx 17.8 kB	Download
852-1305/000-001 X81 - Datei	2019 May 22	xml 7.6 kB	Download
ausschreiben.de 852-1305/000-001		URL	Download

Additional Information

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

System Description

Industrial Switches – General Product Information		pdf 1.9 MB	Download
---	--	---------------	----------

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



Runtime Software

Firmware

0852-1305/0000-0001, Industrial-Managed-Switch	V 12	zip	Download
WAGO_FW0852-1305_0000_0001_V010105SO_IX12_F	2021 Oct 1	12.9 MB	
Firmware: 852-1305/000-001 Industrial-Managed-Switch; 8-Port 1000BASE-T; 4-Slot 1000BASE-SX/LX; Extended temperature range; USB; metallic black	06	zip	Download
	2019 Jun 7	10.1 MB	

CAD/CAE-Data

CAD data

2D/3D Models 852-1305/000-001	URL	Download
-------------------------------	-----	----------

CAE data

ZUKEN Portal 852-1305/000-001	URL	Download
EPLAN Data Portal 852-1305/000-001	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 852-1305/000-001	URL	Download
Industrial Managed Switch; 8 Ports 1000Base-T; 4-Slot 1000BASE-SX/LX; Extended temperature range; USB; black metallic		

Installation Notes

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