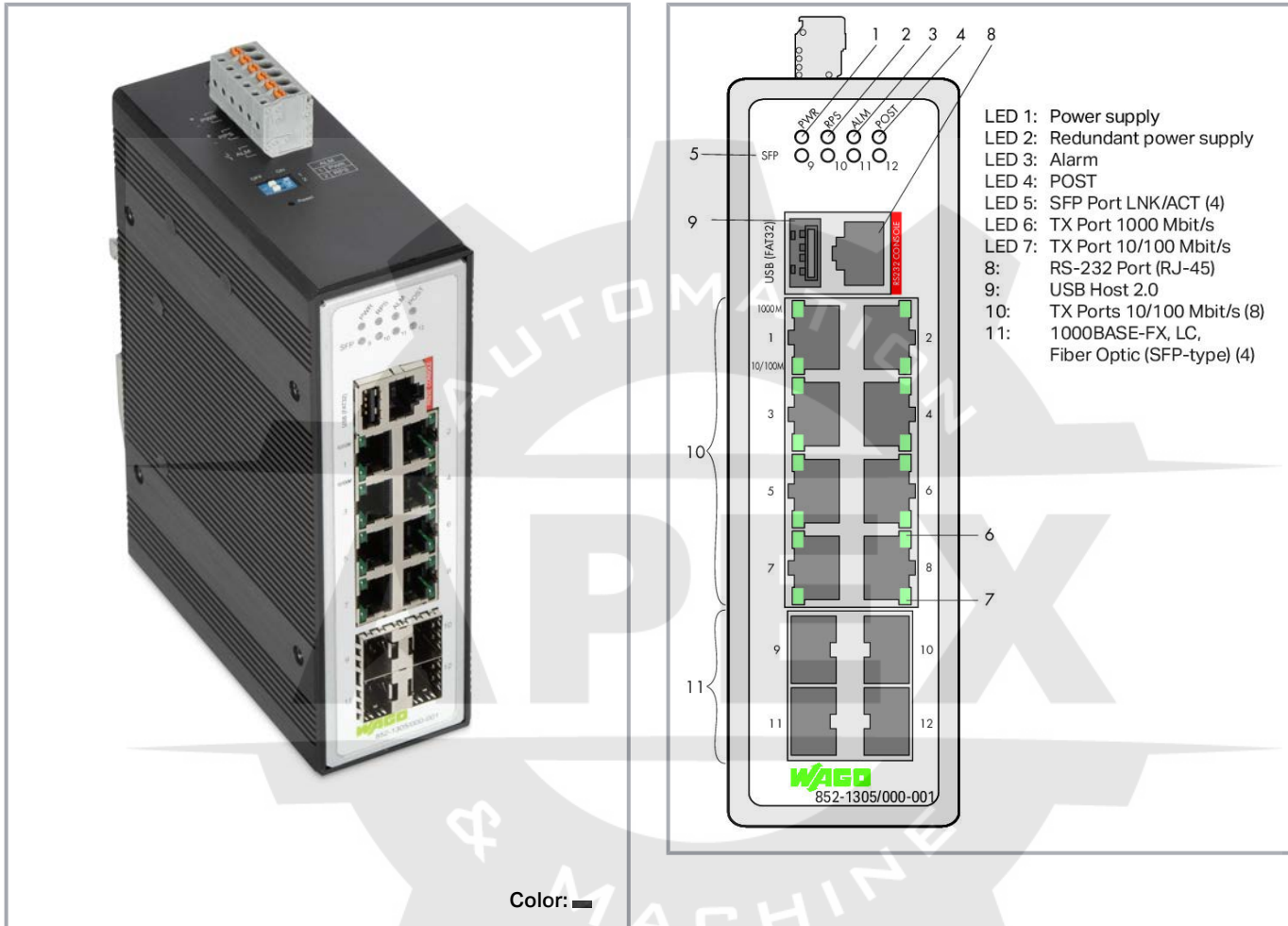


Data sheet | Item number: 852-1305/000-001

Industrial managed switch; 8 - 10/100/1000 Mb/s RJ45 ports; 4 - 1000 Mb/s Fiber Optic ports

www.wago.com/852-1305_000-001



Item description

The 852-1305/000-001 Industrial Managed Switch is an 8-port 10/100/1000BASE-T and 4-port SFP-1000BASE-SX/LX configurable ETHERNET switch (SFP modules are optional).

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!

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- 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 1000BASE-T ports	8
Number of 1000Base SX/LX 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 IEEE 1588v2 Precision Time Protocol (PTP) 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;

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	Loop detection; ...
MAC table (size)	16000 addresses
Jumbo frame size	10000 Byte
Supply voltage	12 ... 48 VDC
Power consumption without PoE	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 VLANs)
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; 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 inch
Height	162 mm / 6.378 inch
Depth	120 mm / 4.724 inch

Mechanical data

Weight	855 g
Color	metallic black

Environmental requirements

Surrounding air temperature (operation)	-40 ... 70 °C
Surrounding air temperature (storage)	-40 ... 80 °C
Protection type	IP30
Relative humidity (without condensation)	95 %
Mounting type	DIN-35 rail

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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

Packaging type	BOX
Country of origin	TW
GTIN	4055143898133
Customs tariff number	8517620090

Approvals / Certificates

Other Approvals

Logo	Approval	Additional Approval Text	Certificate name
	IEC	IEC 61850-3	18A092117E_C
	InterOcean EMC Technology Corp.		

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL	UL 61010-2-201	E175199
	Underwriters Laboratories Inc. (ORDINARY LOCATIONS)		

Optional accessories

General accessories

	Item no.: 852-1200 Fiber-optic module; 850 nm; 1000Base-SX multi-mode LC; 0.55 km; extended temperature range	www.wago.com/852-1200
	Item no.: 852-1210 Fiber-optic module; 1310 nm; 1000Base-LX single-mode LC; 10 km; extended temperature range	www.wago.com/852-1210
	Item no.: 852-1280 Fiber-optic module; 1550 nm; 1000Base-ZX single-mode LC; 80 km; extended temperature range	www.wago.com/852-1280

Cables and pluggable connectors

	Item no.: 750-975 RJ-45 connector; IP20; ETHERNET 10/100 Mbit/s	www.wago.com/750-975
	Item no.: 750-976	

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	PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly	www.wago.com/750-976
	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.: 750-977/000-012 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
	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.: 750-978/000-011 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief	www.wago.com/750-978/000-011
	Item no.: 750-978/000-012 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief	www.wago.com/750-978/000-012
	Item no.: 750-978/000-013 Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief	www.wago.com/750-978/000-013
	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.: 750-978/000-022 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.: 750-979/000-012 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief	www.wago.com/750-979/000-012
	Item no.: 750-979/000-013 Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief	www.wago.com/750-979/000-013

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	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
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	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
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Interface module

	Item no.: 289-172 Interface module; RJ-45; Cat. 5; in mounting carrier	www.wago.com/289-172
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	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
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	Item no.: 289-195 Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection	www.wago.com/289-195
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	Item no.: 289-196 Interface module; RJ-45; with power jumper contacts; PCB terminal blocks; Cat. 5	www.wago.com/289-196
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Power supplies

	Item no.: 787-1602 EPSITRON® CLASSIC power supply; single-phase; output voltage 24 VDC; 1 A	www.wago.com/787-1602
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	Item no.: 787-1606 EPSITRON® CLASSIC power supply; single-phase; output voltage 24 VDC; 2 A	www.wago.com/787-1606
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	Item no.: 787-1622 EPSITRON® CLASSIC power supply; single-phase; output voltage 24 VDC; 5 A	www.wago.com/787-1622
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	Item no.: 787-1623 EPSITRON® CLASSIC power supply; single-phase; output voltage 48 VDC; 2 A	www.wago.com/787-1623
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	Item no.: 787-1632 EPSITRON® CLASSIC power supply; 1-phase; output voltage 24 VDC; 10 A	www.wago.com/787-1632
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	Item no.: 787-1633 EPSITRON® CLASSIC power supply; 2-phase; output voltage 48 VDC; 5 A	www.wago.com/787-1633
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	Item no.: 787-1635 EPSITRON® CLASSIC power supply; 2-phase; output voltage 48 VDC; 10 A	www.wago.com/787-1635
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Downloads

Documentation

Manual

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

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X81 - Datei		7.6 kB	

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf	Download
		265.8 kB	

System Description

Industrial Switches – General Product Information	pdf	Download
	2.0 MB	

Runtime Software

Firmware

Firmware: 852-1305/000-001 Industrial-Managed-Switch; 8-Port 1000BASE-T; 4-Slot 1000BASE-SX/LX; Extended temperature range; USB; metallic black	06 Jun 7, 2019	zip	Download
		10.1 MB	

CAD files

CAD data

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

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

Compliance Search

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

Installation Notes



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