

Data sheet | Item number: 852-1505/000-001

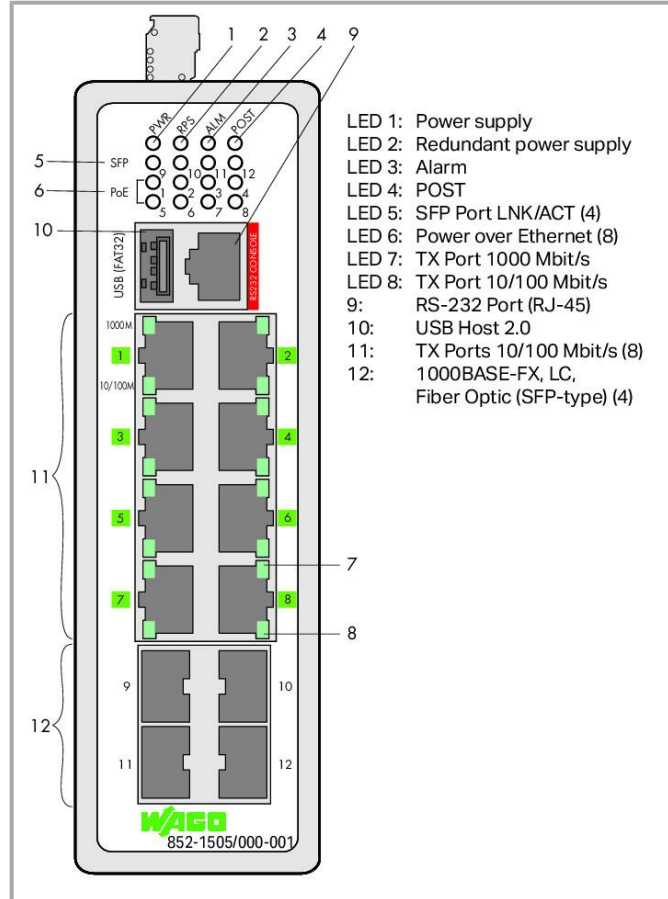
Industrial-Managed-Switch; 8-Port 1000BASE-T; 4-Slot 1000BASE-SX/LX;  
Extended temperature range; 8 \* Power over Ethernet; USB



[www.wago.com/852-1505/000-001](http://www.wago.com/852-1505/000-001)



Color: ■■



### Item description

The configurable 852-1505/000-001 Industrial ETHERNET Switch features eight 10/100/1000BASE-T ports that all support Power over Ethernet (PoE+) at 30 W, and has four 1000BASE-SX/LX SFP slots (SFP modules are available as an option). All eight PoE+ ports can be operated simultaneously.

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.

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.

**Features:**

- Web-based/SNMP management
- Redundant DC power supply
- Power supply range: 24 ... 57 VDC
- Diagnostics via Modbus® and SNMP
- DIP switch to set alarm functions
- Auto-negotiation 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 802.3af Power over Ethernet (PoE) IEEE 802.3at High Power over Ethernet (PoE+) ITU-T G8032v1/v2 Ethernet Ring Protection Switching (ERPS) 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 802.3af Power over Ethernet (PoE) IEEE 802.3at High Power over Ethernet (PoE+) 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

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	ms; LCAP 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; ...
MAC table (size)	16000 addresses
Jumbo frame size	10000. Byte
Supply voltage	24 ... 57 VDC
Power consumption (max.)	18 W
Power consumption (note)	258 W with 8 PoE+
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	14 x DIP switch: Alarm function power supplies and ports 1 ... 12
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 (1000M, 10/100M) green, yellow: Status 1000 Mbps, 10/100 Mbps 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) 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 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
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	50 mm / 1.969 inch
Height	162 mm / 6.378 inches 162 mm / 6.378 inch
Depth	120 mm / 4.724 inches 120 mm / 4.724 inch

### Mechanical Data

Weight	955 g
Color	metallic black

### Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C -40 ... 70 °C
Ambient temperature (storage)	-40 ... +80 °C -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 61000-6-4
Fire load	0.302 MJ 0.234 MJ

### Commercial data

ETIM 8.0	EC000734
ETIM 7.0	EC000734
PU (SPU)	1 pcs 1 Stück
Packaging type	box
Country of origin	TW
GTIN	4055143897969
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
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE. AM02.B.00087 /19
	<b>IEC</b> Interocean EMC Technology Corp.	IEC 61850-3	18A092117E_C
	<b>UL</b> Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

### Declarations of conformity and manufacturer's declarations


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

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV</b> DNV Germany GmbH	DNVGL-CG-339,Dec.2019	TAA00002YN
	<b>LR</b> Lloyds Register	-	LR2128525TA

## 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>

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



**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

[www.wago.com/750-979/000-022](http://www.wago.com/750-979/000-022)



**Item no.: 750-978/000-022**  
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[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

[www.wago.com/750-979/000-021](http://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](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)



**Item no.: 750-978/000-011**  
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[www.wago.com/750-977/000-012](http://www.wago.com/750-977/000-012)

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



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

[www.wago.com/750-977/000-013](http://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](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)

## 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](http://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](http://www.wago.com/852-1210)



**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](http://www.wago.com/852-1280)

## Power supplies

Power supply unit



**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](http://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](http://www.wago.com/787-1635)

## Downloads

### Documentation

#### Manual

Product Manual 8 Port 1000BASE-T + 4-Slot 1000BASE SX-LX Industrial Managed Switch Extended Temperature Range; 8PoE; USB	V 1.1.0 2021 Apr 15	pdf 16.5 MB	Download
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#### Bid Text

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## Runtime Software

### Firmware

0852-1505/000-001, Industrial-Managed-Switch WAGO_FW0852-1505_000_001_V010105S0_IX12_F	V 12 2021 Oct 1	zip 13.0 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 852-1505/000-001		URL	Download
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### CAE data

EPLAN Data Portal 852-1505/000-001		URL	Download
ZUKEN Portal 852-1505/000-001		URL	Download

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 852-1505/000-001 Industrial-Managed-Switch; 8-Port 1000BASE-T; 4-Slot 1000BASE-SX/LX; Extended temperature range; 8 * Power over Ethernet; USB		URL	Download
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## Installation Notes

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