

Data sheet | Item number: 852-1505

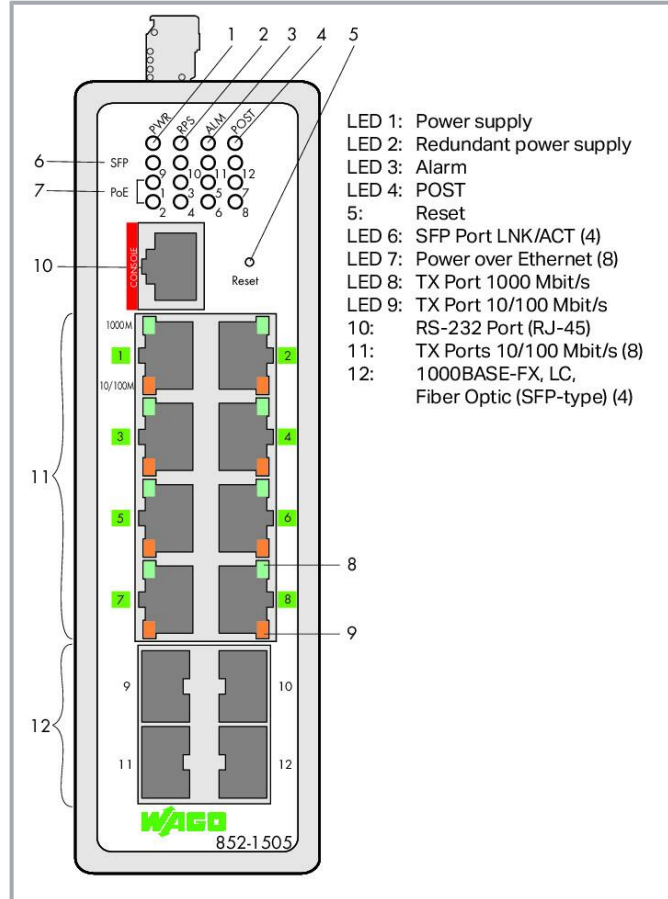
Industrial Managed Switch; 8 Ports 1000Base-T; 4-Slot 1000BASE-SX/LX;
Extended temperature range; 8 * Power over Ethernet; black metallic



www.wago.com/852-1505



Color: ■



Item description

The configurable 852-1505 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.

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

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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
- Supply voltage range: 48 ... 57 VDC
- DIP switch to set alarm functions
- Full compliance with IEEE802.3, 802.3u, 802.3z, 802.3x, 802.3ad, 802.3ab, 802.1d, 802.1q, 802.1p, 802.1w, 802.1x and 802.3at standards
- Xpress Ring (redundant ring, switching time < 20 ms)
- Non-blocking, store-and-forward switching, rapid spanning tree protocol (RSTP)
- Auto-negotiation at all 10/100/1000BASE-T ports
- Auto-MDI/MDIX (crossover) at all 10/100/1000BASE-T ports
- VLAN (802.1q) VID
- IGMP snooping for multicast filtering
- Port configuration, status, statistics
- Port trunking
- SNMP v1/v2 and RMON

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 802.3ad Port Trunk with LACP 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 802.3af Power over Ethernet (PoE) IEEE 802.3at High Power over Ethernet (PoE+) ITU-T G8032v1/v2 Ethernet Ring Protection Switching (ERPS) ITU-T G8032v1/v2 Ethernet Ring Protection Switching (ERPS)

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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 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 Command Line Interface SNMPv1/v2c/v3
Diagnostics	Signal contact, Modbus/TCP, port status, port statistics, port load, traffic monitor, SFP information, syslog, mail alarm, SNMP traps
MAC table (size)	16000 addresses
Jumbo frame size	10000. Byte
Supply voltage	48 ... 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 50 mm / 1.969 inch
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Subject to changes. Please also observe the further product documentation!



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	860 g
Color	black metallic metallic black
Housing material	Aluminum
Conformity marking	CE

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

eCl@ss 10.0	19-17-01-30
eCl@ss 9.0	19-17-01-06
ETIM 8.0	EC000734
ETIM 7.0	EC000734
PU (SPU)	1 pcs 1 Stück
Packaging type	box
Country of origin	TW
GTIN	4055143728010
Customs tariff number	85176200000

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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
	KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-ISW852



Declarations of conformity and manufacturer's declarations

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

Optional accessories



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
	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

Cables and pluggable connectors

Connector plug

	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

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	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
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	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

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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

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



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

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

Downloads

Documentation

Manual

Product Manual Industrial Managed Switch; 8Port 1000BASE-T; 4Slot 1000BASE-SX /LX; EXT; 8PoE	V 1.0.0	pdf	9.6 MB	Download
Industrial Managed Switch; 8 Ports 1000BASE-T; 4 Slots 1000BASESX/LX; Extended Temperature Range; 8 * Power over Ethernet				

Bid Text

852-1505	2019 Feb 19	xml	9.4 kB	Download
X81 - Datei				
852-1505	2018 May 24	docx	23.1 kB	Download
docx - Datei				

Instruction Leaflet

Gebrauchs- und Montageanleitung 852-1505 Industrial-ETHERNET-Switch	V 1.0.0	pdf	793.9 kB	Download
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System Description

Industrial Switches – General Product Information	pdf	Download
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1.9 MB

Additional Information

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

Runtime Software

Firmware

0852-1505, Industrial-Managed-Switch	V 12	zip	Download
WAGO_FW0852-1505_V010108S0_IX12_F	2021 Oct 1	10.4 MB	

CAD/CAE-Data

CAD data

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

EPLAN Data Portal 852-1505	URL	Download
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ZUKEN Portal 852-1505	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 852-1505	URL	Download
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Installation Notes

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