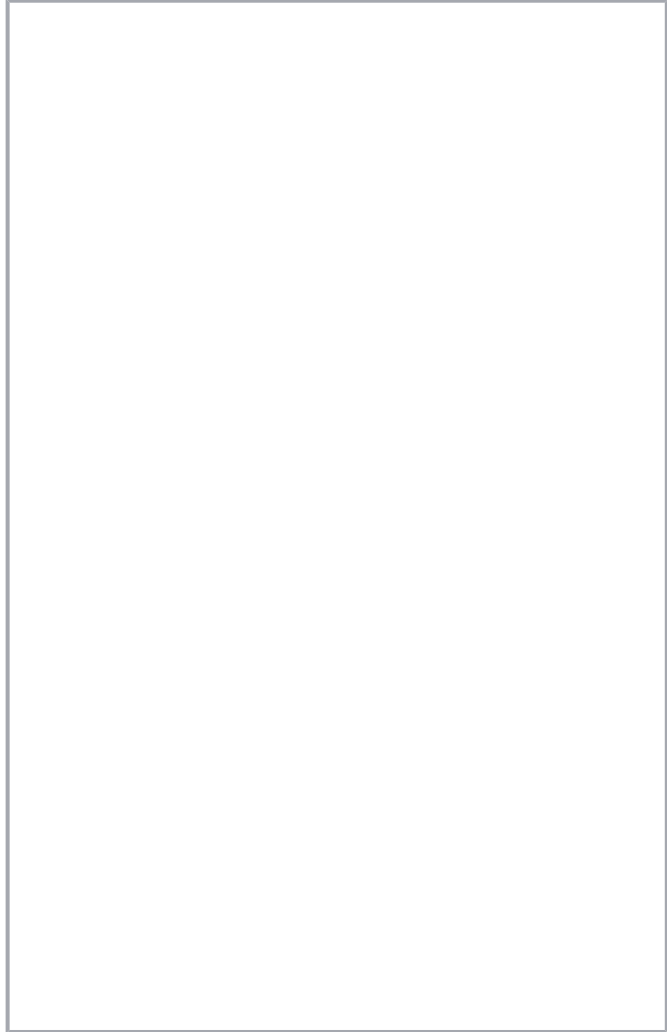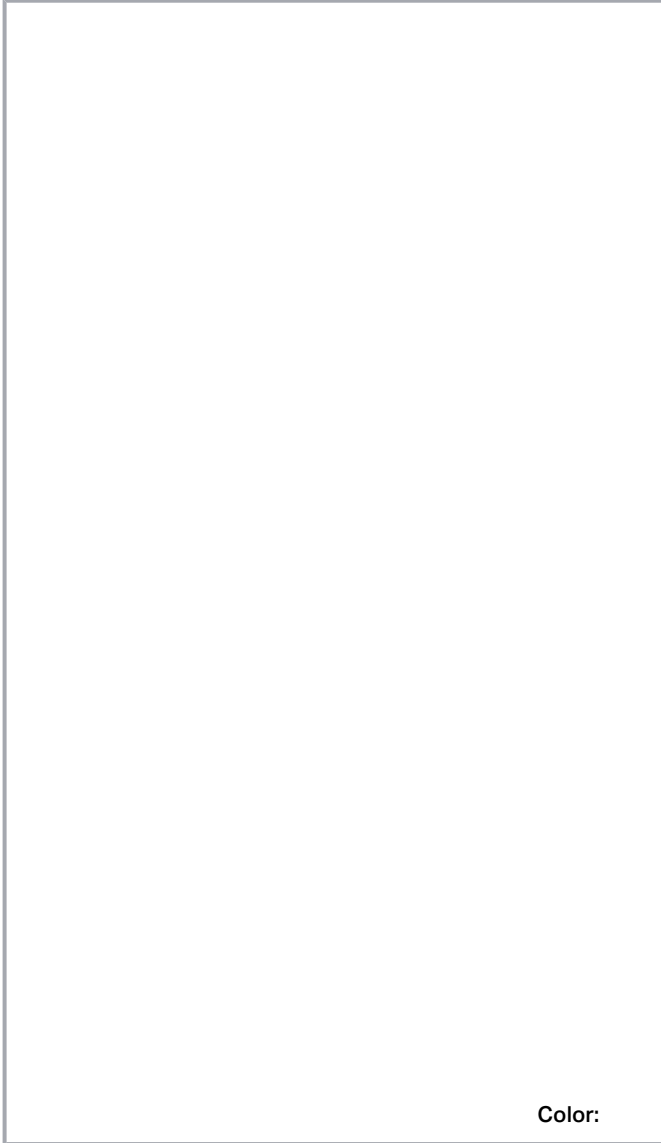# Data sheet | Item number: 852-1505

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!

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

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

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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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Do you have any questions about our products?
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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

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
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

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

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

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/000-013

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www.wago.com/750-978
/000-011

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/000-022

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Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22

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

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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

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

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;

www.wago.com/787-1633

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

	DC OK contact	
	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

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

Downloads

Documentation

Manual

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

Bid Text

852-1505 X81 - Datei	2019 年2月19 日	xml 9.4 kB	Download
852-1505 docx - Datei	2018 年5月24 日	docx 23.1 kB	Download

Instruction Leaflet

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

System Description

Industrial Switches – General Product Information		pdf 1.9 MB	Download

Additional Information

Disposal and Recycling	V 1.1.0	pdf	Download

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Electrical and electronic equipment, Batteries, Packaging	2022 年8月18日	2.2 MB

Runtime Software

Firmware

0852-1505, Industrial-Managed-Switch	V 12	zip	Download
WAGO_FW0852-1505_V010108S0_IX12_F	2021 年10月1日	10.4 MB	

CAD/CAE-Data

CAD data

2D/3D Models 852-1505	URL	Download

CAE data

EPLAN Data Portal 852-1505	URL	Download

ZUKEN Portal 852-1505	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 852-1505	URL	Download

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

Installation Notes

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