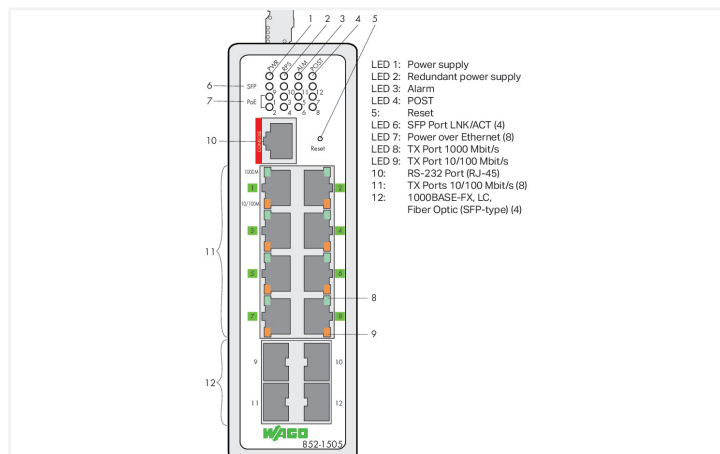


Data Sheet | Item Number: 852-1505

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

<https://www.wago.com/852-1505>



Color: ■ black metallic

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.

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

Technical data

Switching mode	Store-and-forward; non-blocking
Number of 1 Gb/s ports	8
Number of 1 Gb/s ports SFP	4

Technical data

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 1588v2 Precision Time Protocol (PTP) 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 ms; LACP
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 Alarm contact; Alarm relay; NO; 1 A at 24 VDC
MAC table (size)	16000 addresses
Jumbo frame size	10000 bytes
Supply voltage	48 ... 57 VDC; 24 ... 57 VDC (CE, UL); 24 VDC (DIN VDE); 24, 48 VDC (LR)
Power consumption (max.)	18 W
Power consumption (note)	258 W with 8 PoE+
Current consumption (max.)	5000 mA
ESD (contact/air discharge)	8 KV / 15 KV
Transmission 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)
Power over Ethernet (PoE) features	Available power for powered devices (PD): 25.5 W Power (max.) from the power sourcing equipment (PSE): 30 W Voltage (PSE): 24 ... 57 VDC Voltage (PD): 50 ... 57 VDC Current (max.): 600 mA Resistance (max.): 12.5 Ω (Category 5) PoE power budget: 240 W (48 VDC), 120 W (24 VDC) PoE-supported operating mode: Mode A
Control Elements	14 x DIP switches: alarm function for supply voltages 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)
Connection technology: supply	1 x Built-in male connector: 231-436/001-000; included female connector (MCS Connectors): 2231-106/026-000
Connection technology: device configuration	1 x RS-232 serial interface

Physical data

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

Mechanical data

Mounting type	DIN-35 rail
Mounting (note)	Compass safe distance: > 40 cm

Material data

Color	black metallic
Housing material	Aluminum
Fire load	0.2 MJ
Weight	860 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C (-40 ... +70 °C (CE); -10 ... +60 °C (UL); -25 ... +70 °C (DNV GL); +5 ... +70 °C (LR))
Ambient temperature (storage)	-40 ... +80 °C
Protection type	IP30
Note on protection type	Use per UL 61010: Indoor
Pollution degree	2 per UL 61010
Relative humidity (without condensation)	95 %
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

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	TW
GTIN	4055143728010
Customs tariff number	85176200000

Product Classification

UNSPSC	43222612
eCl@ss 10.0	19-17-01-30
eCl@ss 9.0	19-17-01-06
ETIM 9.0	EC000734
ETIM 10.0	EC000734
ECCN	5A992.C

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals **Declarations of conformity and manufacturer's declarations**



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

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 852-1505 ↓

Documentation

Manual
Product Manual Industrial Managed Switch; 8Port 1000BASE-T; 4Slot 1000BASE-SX/LX; EXT; 8PoE V 1.0.0 pdf 9371.07 KB ↓

System Description
Industrial Switches – General Product Information pdf 1873.93 KB ↓

Bid Text
852-1505 24.05.2018 docx 22.58 KB ↓
852-1505 19.02.2019 xml 9.21 KB ↓

Instruction Leaflet
Gebrauchs- und Montageanleitung 852-1505 V 1.0.0 pdf 775.34 KB ↓

CAD/CAE-Data

CAD data
2D/3D Models 852-1505 ↓

CAE data
EPLAN Data Portal 852-1505 ↓
ZUKEN Portal 852-1505 ↓

Runtime Software

Firmware

0852-1505, Industrial-Managed-Switch	V 14 04.03.2024	zip 10184.94 KB	
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1 Compatible Products

1.1 Optional Accessories

1.1.1 Cables and connectors

1.1.1.1 Connector plug



Item No.: 750-979/000-011

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief



Item No.: 750-979/000-021

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief



Item No.: 750-979/000-012

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief



Item No.: 750-979/000-022

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief



Item No.: 750-977/000-011

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



Item No.: 750-978/000-011

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



Item No.: 750-977/000-021

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24



Item No.: 750-978/000-021

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief



Item No.: 750-977/000-012

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



Item No.: 750-978/000-012

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



Item No.: 750-977/000-022

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24



Item No.: 750-978/000-022

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief



Item No.: 750-979/000-013

Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief



Item No.: 750-977/000-013

Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22



Item No.: 750-978/000-013

Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief



Item No.: 750-976

PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

1.1.2 Interface module

1.1.2.1 Interface module



Item No.: 289-195

Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection

1.1.3 Plug

1.1.3.1 SFP module



Item No.: 852-1210

SFP Module 1000BASE; LX Single-Mode 1310 nm LC; 10 km; Extended temperature range; Digital Diagnostics Monitoring; silver-colored



Item No.: 852-1200

SFP Module 1000BASE; SX Multi-Mode 850 nm LC; 0.55 km; Extended temperature range; Digital Diagnostics Monitoring; silver-colored



Item No.: 852-1280

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

1.1.4 Power supply

1.1.4.1 Power Supply



Item No.: 787-1635

Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost; DC OK contact

Item No.: 787-1633

Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost; DC OK contact