

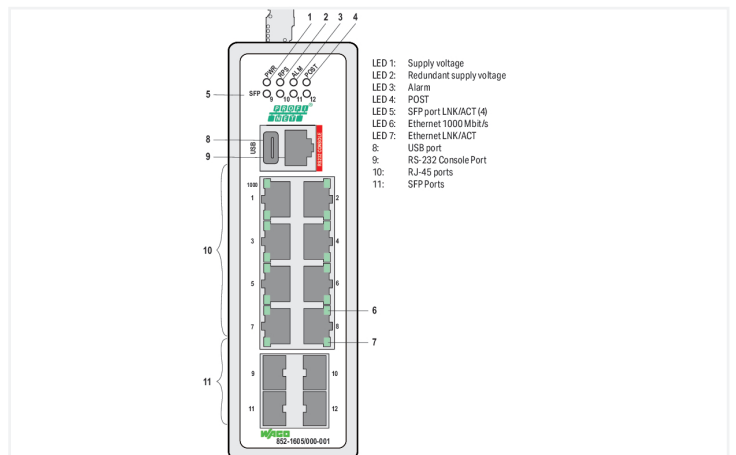
Data Sheet | Item Number: 852-1605/000-001

Industrial Managed Switch; 8 Ports 1000Base-T; 4 SFP Gigabit Ethernet Ports; PRO-FINET; USB; black metallic

<https://www.wago.com/852-1605/000-001>



Color: ■ black metallic



The 852-1605/000-001 Switch is an industrial managed Ethernet switch equipped with 8 RJ-45 Gigabit Ethernet ports (10/100/1000BASE-T/TX) and 4 Gigabit SFP ports (1000BASE-X/LX/SX/ZX) – with optional modules available.

It features a rugged housing with a DIN-rail adapter, redundant power supply and function monitoring with alarm relays. The PROFINET certificate (conformity class B) ensures seamless integration into PROFINET automation systems via the device description file (GSD). The device also supports PROFINET Netload Class II.

Additionally, the switch supports flexible multi-port mirroring configurations through the device description file or Web-Based Management. Function

blocks for cyclic PROFINET switch diagnostics can be implemented efficiently within the TIA Portal, and an application note detailing this process is available.

Key Features:

- Web-based/SNMP management
- Redundant DC power supply with overvoltage, short-circuit and reverse voltage protection
- Power supply range: 12 ... 60 VDC
- DIP switch for setting alarm functions
- Full compliance with IEEE802.3i, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1w, 802.1s, 802.1Q, 802.1p standards
- Media redundancy protocol (MRP) as manager (MRM) or client (MRC), redundant ring
- Non-blocking, store-and-forward switching, rapid spanning tree protocol (RSTP)
- Auto-negotiation and Auto MDI/MDIX (crossover)
- VLAN (802.1Q)
- IGMP Snooping
- Port configuration, status and statistics
- Port trunking and multi-port mirroring
- SNMP v1/v2c/v3 and RMON
- Time synchronization via SNTP and PTP
- Storm control, bandwidth limitation and loop detection
- High resistance to temperature, vibration, and shock

Technical data

Switching mode	Store-and-forward; non-blocking
Number of 1 Gb/s ports	8
Number of 1 Gb/s ports SFP	4
Communication standards	IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-X/LX/SX/ZX IEEE 802.3az Energy Efficient Ethernet IEEE 802.3x Flow Control IEEE 802.3 Autonegotiation IEEE 802.1d Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) IEEE 802.1ab Link Layer Discovery Protocol (LLDP) IEEE 802.1Q VLAN Tagging IEEE 802.1ad QinQ IEEE 802.1p Prioritization IEEE 802.1X Port Authentication IEEE 1588v2 PTP (software based) PROFINET Conformance Class B TACACS+
Redundancy function	Redundant DC power supply; STP; RSTP; MSTP; Media redundancy protocol as manager or client; LACP, XPRESS ring
Configuration options	DIP switch for alarm relay Web-Based Management Command Line Interface (Console, SSH, Telnet) SNMPv1/v2c/v3 Engineering tool (e.g., TIA Portal) USB storage medium
Diagnostics	Signal contact; Port status; Port statistics; Port load; Traffic monitor; SFP information; Syslog; SNMP traps; PN diagnostics (cyclic and acyclic)
MAC table (size)	16000 addresses
Jumbo frame size	10000 bytes
Supply voltage	12 ... 60 VDC; 12 ... 48 VDC (UL)
Power consumption (max.)	18 W
Current consumption (max.)	1500 mA
Transmission rate	Copper cable: 10/1000 Mbit/s; SFP:1000 Mbit/s
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5e or higher, 100 m maximum cable length; SFP: Transmission medium and achievable cable length depends on the SFP module
VLAN	Port-based and tag-based (4k VIDs)
Packet throughput	1480000 pkt/s
Indicators	Device: LEDs (PWR, RPS), green: Supply voltage (primary, secondary); LED (ALM), red: Alarm; LED (POST), green: Self-test status; SFP ports: LED (LNK/ACT), green: Connection and activity status; RJ-45 ports: LED (1000, LNK/ACT), green: Status 1000 Mbit/s, connection and activity status

Connection Data

Connection technology: communication/fieldbus	Copper cable: 8 x RJ-45; Fiber optic: 4 x SFP ports (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

Physical data

Width	50 mm / 1.969 inches
Height	160 mm / 6.299 inches
Depth	120 mm / 4.724 inches

Mechanical data

Weight	860 g
Color	black metallic
Housing material	Aluminum

Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C
Ambient temperature (storage)	-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 MJ

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	TW
GTIN	4066966719406
Customs tariff number	85176200000

Product Classification

UNSPSC	43222612
ETIM 9.0	EC000734
ETIM 10.0	EC000734
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

Declarations of conformity and manufacturer's declarations

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

Protocol and fieldbus specific certificates

Approval	Standard	Certificate Name
Profi-Net PNO-PROFIBUS Nutzerorganisation e.V.	-	Z13972

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 852-1605/000-001	↓

Documentation

Manual			
Funktionshandbuch Industrial Managed Switch; 8 Ports 1000Base-T	4163669515 2 en-US 2025-06-04 10:06 13.06.2025	pdf 9355.51 KB	↓
Product Manual WAGO Industrial Managed Switch	3314598411 4 en-US 2025-08-27 15:24 01.09.2025	pdf 3985.75 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 852-1605/000-001	↓

Libraries

Device Description File

Gerätebeschreibungen PROFINET	Version 3.4 15.11.2024	zip 1533.35 KB	
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