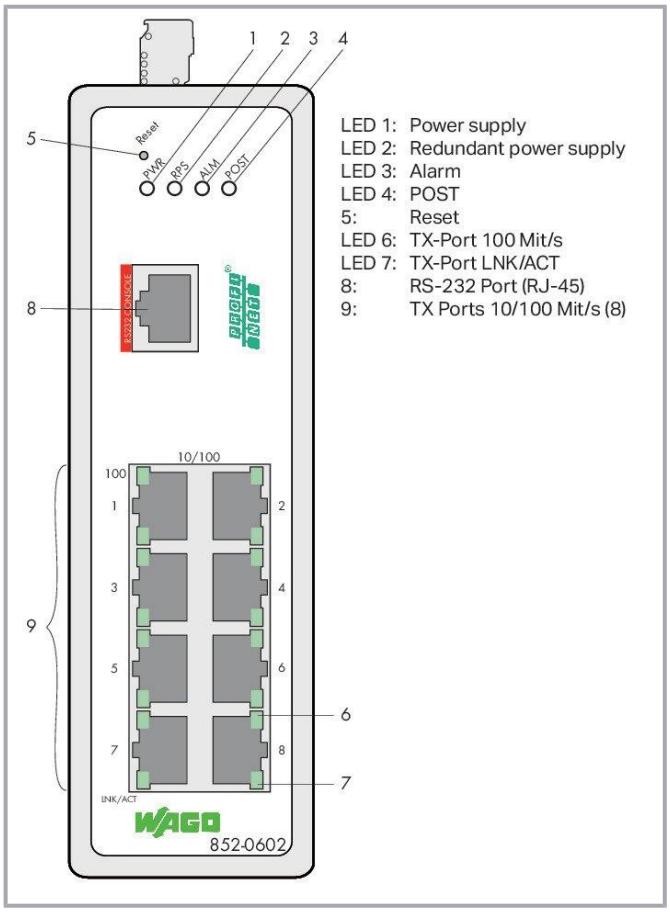
# Data sheet | Item number: 852-602

Industrial Managed Switch; 8-port 100Base-TX; PROFINET; Extended temperature range; black metallic

www.wago.com/852-602




Color:




## Item description

The 852-602 Industrial Managed Switch is a configurable ETHERNET switch equipped with eight 10/100Base-TX copper ports. Packaged in a rugged housing, this switch offers both a redundant power supply and relay-based function monitoring.
The PROFINET certificate (conformity class B) guarantees easy integration into PROFINET automation systems using the device description file (GSD). In addition, the device supports the PROFINET Netload Class II.

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

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The device supports flexible multi-port mirroring configuration via device description file or Web-Based Management. Function blocks allow cyclic PROFINET switch diagnostics to be efficiently implemented within the TIA Portal. An application note that outlines this process is available.

**Features:**

- Web-based/SNMP management
- Redundant DC power supply
- Power supply range: 12 … 60 VDC
- DIP switches to set alarm functions
- Full compliance with IEEE802.3, 802.3u, 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)
- Autonegotiation and AUTO-MDI/MDIC (crossover)
- VLAN (802.1Q) VID
- IGMP snooping
- Port configuration, status, statistics
- Port trunking and multi-port mirroring
- SNMP v1/v2c/v3 and RMON
- Time synchronization via SNTP
- Storm control, bandwidth limitation and loop detection

## Data

### Technical data

| | |
|---|---|
| Switching mode | Store-and-forward; non-blocking |
| Number of 100 Mbps ports | 8 |
| Communication standards | IEEE 802.3 10BASE-T<br>IEEE 802.3u 100BASE-TX<br>IEEE 802.3x Flow Control<br>IEEE 802.1d Spanning Tree Protocol (STP)<br>IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)<br>IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)<br>IEEE 802.1Q VLAN Tagging<br>IEEE 802.1p Class of service<br>IEEE 802.1ab Link Layer Discovery Protocol (LLDP)<br>PROFINET Conformance Class B |
| Redundancy function | Redundant DC power supply; STP; RSTP; MSTP; Media redundancy protocol as manager or client |
| Configuration options | DIP switch for signal contact<br>Web-Based Management<br>Command Line Interface<br>SNMPv1/v2c/v3 |
| Diagnostics | Signal contact; Port status; Port statistics; Port load; Traffic monitor; |

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| | |
|---|---|
| | SFP information; Syslog; SNMP traps; PN diagnostics (cyclic and acyclic) |
| MAC table (size) | 16000 addresses |
| Jumbo frame size | 10000. Byte |
| Supply voltage | 12 … 60 VDC |
| Power consumption (max.) | 12 W |
| ESD (contact/air discharge) | 8 KV / 15 KV |
| Transmission rate | Copper cable: 10/100 Mbit/s |
| Transmission medium (communication/fieldbus) | Copper cable: Cat. 5e or higher, 100 m maximum cable length |
| VLAN | Port-based and tag-based (4k VIDs) |
| Indicators | Device: LED (PWR, RPS) green: Power supply (primary), redundant power supply (secondary); LED (ALM) red: Alarm or PROFINET error (with active PROFINET mode); pro Port: LED (100, LNK/ACT) green: Status 100 Mbps, LNK/ACT ports 1 … 8 |

## Connection data

| | |
|---|---|
| Connection technology: communication/fieldbus | Copper cable: 8 x RJ-45 |
| 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 | 162 mm / 6.378 inches |
| Depth | 120 mm / 4.724 inches |

## Mechanical data

| | |
|---|---|
| Weight | 882 g |
| Color | black metallic |

## 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 |

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| | |
|---|---|
| EMC emission of interference | per EN 61000-6-4 |
| Fire load | 0.302 MJ |

## Commercial data

| | |
|---|---|
| ETIM 9.0 | EC000734 |
| ETIM 8.0 | EC000734 |
| Recupel Type | |
| ECCN | 5A992.C |
| PU (SPU) | 1 pcs |
| Packaging type | box |
| Country of origin | TW |
| GTIN | 4055143907989 |
| Customs tariff number | 85176200000 |

## Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant,No Exemption |

## Approvals / Certificates

### General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **EAC**<br>GZO Almaty Standart | TP TC 020/2011 | EAC CoC 03083 |
| | **KC**<br>National Radio Research Agency | Article 58-2, Clause 3 | MSIP-REM-W43-ISW852 |
| | **UL**<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 61010-2-201 | E175199 |

### Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **EU-Declaration of Conformity**<br>WAGO GmbH & Co. KG | - | - |

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### Protocol and fieldbus specific certificates

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **Profi-Net**<br>Siemens AG/ComDeC | - | Z12462 |

## Optional accessories

### Cables and pluggable connectors

Connector plug

| | | |
|---|---|---|
|  | **Item no.: 750-976**<br>PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly | www.wago.com/750-976 |
|  | **Item no.: 750-978/000-012**<br>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**<br>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**<br>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**<br>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**<br>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**<br>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**<br>Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief | www.wago.com/750-979/000-013 |
|  | **Item no.: 750-979/000-021**<br>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief | www.wago.com/750-979/000-021 |



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www.wago.com/750-977/000-021

**Power supplies**

Power supply unit



Item no.: 787-1632
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact
www.wago.com/787-1632



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



Item no.: 787-1602
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 1 A output current; NEC Class 2; DC OK signal
www.wago.com/787-1602



Item no.: 787-1622
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost; DC OK contact
www.wago.com/787-1622



Item no.: 787-1606
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal
www.wago.com/787-1606



Item no.: 787-1623
Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 2 A output current; DC OK signal
www.wago.com/787-1623

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### 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 8 Ports 100BASE-TX, PROFINET; EXT | V 1.0.0<br>Dec 12, 2019 | pdf<br>15.0 MB | Download |

### Bid Text

| | | | |
|---|---|---|---|
| 852-602<br>X81 - Datei | | xml<br>8.0 kB | Download |
| 852-602<br>docx - Datei | | docx<br>18.0 kB | Download |

### Additional Information

| | | | |
|---|---|---|---|
| Disposal and Recycling<br>Electrical and electronic equipment, Batteries, Packaging | V 1.1.0<br>Aug 18, 2022 | pdf<br>2.2 MB | Download |

### System Description

| | | | |
|---|---|---|---|
| Industrial Switches – General Product Information | | pdf<br>1.9 MB | Download |

## Runtime Software

### Firmware

| | | | |
|---|---|---|---|
| 0852-0602, Industrial-Managed-Switch<br>WAGO_FW0852-0602_V010006_IX03_F | V 03<br>Nov 29, 2023 | zip<br>10.8 MB | Download |

## CAD/CAE-Data

### CAD data

| | | | |
|---|---|---|---|
| 2D/3D Models 852-602 | | URL | Download |

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### CAE data

| | | |
|---|---|---|
| ZUKEN Portal 852-602 | URL | Download |
| EPLAN Data Portal 852-602 | URL | Download |

### Asset Administration Shell

| | | |
|---|---|---|
| Asset Administration Shell 852-602 | URL | Download |

## Device Files

### Device Description File

| | | | |
|---|---|---|---|
| 750-916; GSD files of version 2.x for PROFINET/ series 750/753, 765, 767 and 852 | 3.0 | URL | Download |
| GSD-Dateien der Version 2.x für PROFINET | | URL | Download |

## Environmental Product Compliance

### Compliance Search

| | | |
|---|---|---|
| Environmental Product Compliance 852-602<br>Industrial Managed Switch; 8-port 100Base-TX; PROFINET; Extended temperature range; black metallic | URL | Download |

## Installation Notes



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