

Data sheet | Item number: 852-603

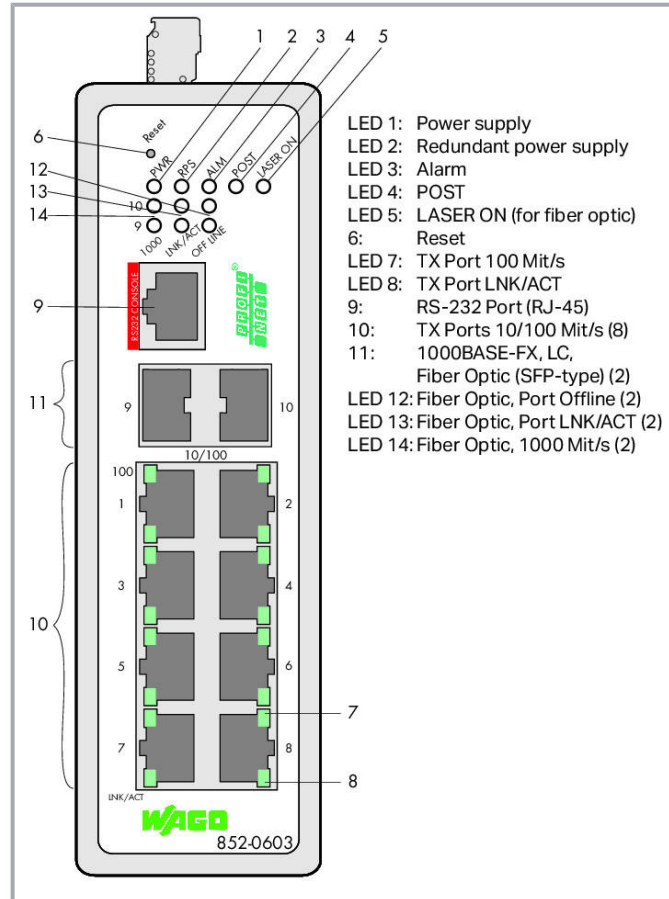
Industrial Managed Switch - PROFINET; 8 - 10/100 Mb/s RJ45 ports; 2 - 1000 Mb/s Fiber Optic ports; Extended temperature range



www.wago.com/852-603



Color: ■



Item description

The configurable 852-603 Industrial Switch is a managed ETHERNET switch equipped with eight 10/100Base-TX copper ports and two SFP slots. It can be configured as a 100Base-FX or 1000Base-SX/LX device (SFP modules are optional).

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

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

WAGO Corporation
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Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
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supports the PROFINET Netload Class II.

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, 802.3z, 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)
- 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 100Base-TX ports	8
Number of 1000Base SX/LX ports	2
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3z 1000BASE-SX/LX 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 Class of service IEEE 802.1ab Link Layer Discovery Protocol (LLDP) 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 Web-Based Management

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	Command Line Interface SNMPv1/v2c/v3
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. Byte
Supply voltage	12 ... 60 VDC
Power consumption without PoE	12 W
ESD (contact/air discharge)	8 KV / 15 KV
Baud 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 VLANs)
Indicators	Device: LED (PWR, RPS, POST) green: Power supply (primary), redundant power supply (secondary), POST function; LED (ALM) red: Alarm or PROFINET error (with active PROFINET mode); LED (LASER ON) yellow, LED (LNK/ACT, 100) green, LED (OFFLINE) red: Status of fiber optic ports; per 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; Fiber optic: 2 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

Physical data

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

Mechanical data

Weight	885 g
Color	metallic black

Environmental requirements

Surrounding air temperature (operation)	-40 ... 70 °C
Surrounding air temperature (storage)	-40 ... 80 °C
Protection type	IP30

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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

Commercial data

Packaging type	BOX
Country of origin	TW
GTIN	4055143908030
Customs tariff number	8517620090







Approvals / Certificates

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

Optional accessories

Power supplies

	Item no.: 787-1602 EPSITRON® CLASSIC power supply; single-phase; output voltage 24 VDC; 1 A	www.wago.com/787-1602
	Item no.: 787-1606 EPSITRON® CLASSIC power supply; single-phase; output voltage 24 VDC; 2 A	www.wago.com/787-1606
	Item no.: 787-1622 EPSITRON® CLASSIC power supply; single-phase; output voltage 24 VDC; 5 A	www.wago.com/787-1622
	Item no.: 787-1623 EPSITRON® CLASSIC power supply; single-phase; output voltage 48 VDC; 2 A	www.wago.com/787-1623
	Item no.: 787-1632 EPSITRON® CLASSIC power supply; 1-phase; output voltage 24 VDC; 10 A	www.wago.com/787-1632
	Item no.: 787-1633 EPSITRON® CLASSIC power supply; 2-phase; output voltage 48 VDC; 5 A	www.wago.com/787-1633

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Item no.: 787-1635
 EPSITRON® CLASSIC power supply; 2-phase; output voltage 48 VDC; 10 A

www.wago.com/787-1635

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

Cables and pluggable connectors



Item no.: 750-976
 PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

www.wago.com/750-976



Item no.: 750-977/000-011
 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22

www.wago.com/750-977/000-011



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



Item no.: 750-977/000-021
 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24

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



Item no.: 750-977/000-022
 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24

www.wago.com/750-977/000-022



Item no.: 750-978/000-011
 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief

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



Item no.: 750-978/000-012
 Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief

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Item no.: 750-978/000-013
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	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.: 750-979/000-012 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief	www.wago.com/750-979/000-012
	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.: 750-979/000-022 Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief	www.wago.com/750-979/000-022

General accessories

	Item no.: 852-1200 Fiber-optic module; 850 nm; 1000Base-SX multi-mode LC; 0.55 km; extended temperature range	www.wago.com/852-1200
	Item no.: 852-1210 Fiber-optic module; 1310 nm; 1000Base-LX single-mode LC; 10 km; extended temperature range	www.wago.com/852-1210
	Item no.: 852-1280 Fiber-optic module; 1550 nm; 1000Base-ZX single-mode LC; 80 km; extended temperature range	www.wago.com/852-1280
	Item no.: 852-201/107-002 Fiber-optic module; 1310 nm; 100Base-FX multi-mode LC; 2 km	www.wago.com/852-201/107-002
	Item no.: 852-201/107-030 Fiber-optic module; 1310 nm; 100Base-FX single-mode LC; 30 km	www.wago.com/852-201/107-030

Downloads

Documentation

Manual

Industrial Managed Switch 8 Ports 100BASE-TX, 2 x 1000BASE-SX/LX	V 1.0.0 Dec 12, 2019	pdf 16.8 MB	Download
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Bid Text

852-603		xml 8.3 kB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging V 1.0.0 pdf
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System Description

Industrial Switches – General Product Information pdf
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Runtime Software

Firmware

Firmware: 852-603 Industrial-Managed-Switch; 8-port 100Base-TX; 2-Slot 1000BASE-SX/LX; PROFINET; Extended temperature range; metallic black 02
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CAD files

CAE data

ZUKEN Portal 852-603 URL Download

EPLAN Data Portal 852-603 URL Download

CAD data

2D/3D Models 852-603 URL Download

Device Files

Device Description File

GSD-Dateien der Version 2.x für PROFINET 2.33
Jul 9, 2019 zip
44.1 kB Download

750-916; GSD-Dateien der Version 2.x für PROFINET/ Serie 750/753, 765, 767 und 852 2.81
Apr 15, 2021 zip
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Environmental Product Compliance

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Compliance Search

Environmental Product Compliance 852-603

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Industrial-Managed-Switch; 8-port 100Base-TX; 2-Slot 1000BASE-SX/LX; PROFINET;
Extended temperature range; metallic black

Installation Notes

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