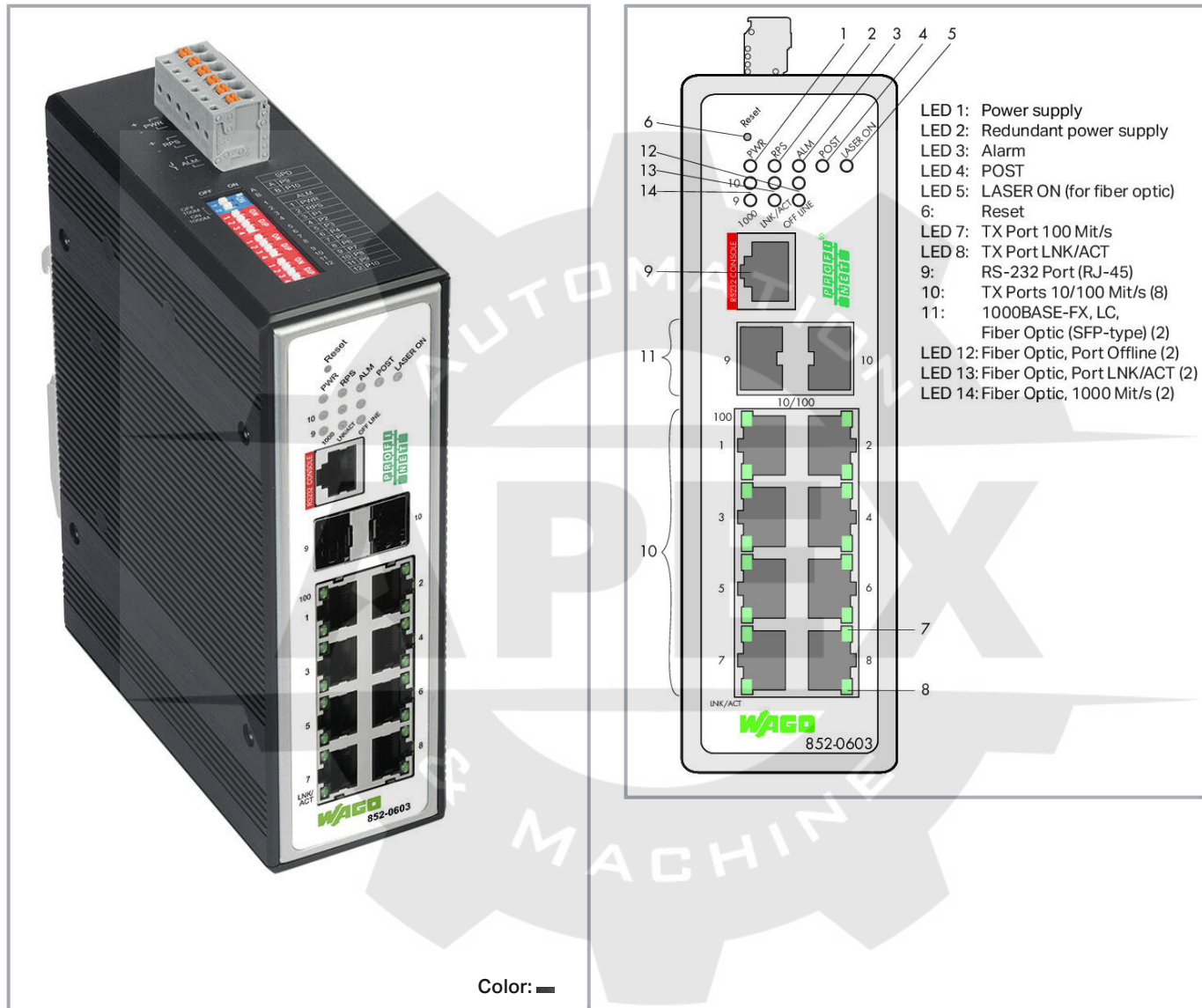


Data sheet | Item number: 852-603

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



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

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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/MDIX (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

www.wago.com/750-978/000-012**Item no.: 750-978/000-013**

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

www.wago.com/750-978/000-013**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.: 750-978/000-022**

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

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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

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Additional Information

Disposal; Electrical and electronic equipment, Packaging

V 1.0.0

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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

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Dec 12, 2019zip
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CAD files**CAE data**

ZUKEN Portal 852-603

URL

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EPLAN Data Portal 852-603

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CAD data

2D/3D Models 852-603

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Device Files**Device Description File**

GSD-Dateien der Version 2.x für PROFINET

2.33
Jul 9, 2019zip
44.1 kB

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750-916; GSD-Dateien der Version 2.x für PROFINET/ Serie 750/753, 765, 767 und 852

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Environmental Product Compliance

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Extended temperature range; metallic black

Installation Notes



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