

**Data sheet | Item number: 852-1816**

Lean Managed Switch; 16 Ports 1000Base-T

[www.wago.com/852-1816](http://www.wago.com/852-1816)



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

---

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



**Successor model**

**Item no.852-1816/010-000**

Lean Managed Switch; 16 Ports 1000Base-T; light gray

[www.wago.com/852-1816/010-000](http://www.wago.com/852-1816/010-000)

**Item description**

The configurable 852-1816 Industrial ETHERNET Switch is equipped with 16 10/100/1000BASE-T ports.

Packaged in rugged housing, this switch offers both a redundant power supply and relay-based function monitoring. This device also streamlines network management: Commissioning and diagnostics are intuitive and can be performed without extensive IT knowledge. The topology map clearly displays the switch and connected devices. Key diagnostic information is displayed on the diagnostics dashboard.

The following functions increase the robustness, availability and security of the network.

**Security:**

Network segmentation per IEEE802.1Q (max. 5 VLANs), authentication of network participants per IEEE802.1X, firewall functions using access-control list (max. 32 entries)/service control, port security

**Availability:**

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

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.



Rapid Spanning Tree Protocol (RSTP) for meshed and ring networks, ETHERNET Ring Protection Switching (ERPS) for up to two rings per switch, loop detection and storm control on each port

**Configuration/Diagnostics/Maintenance:**

Port mirroring, Modbus® registers, SNMP v3, SNMP trap events, alarm threshold, port statistics, backup and restore, system log, syslog server, command line interface with SSH/Telnet, topology map and dashboard

## Data

### Technical data

Switching mode	Store-and-forward; non-blocking
Number of 1 Gbit/s ports	16
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/FX IEEE 802.3ab 1000BASE-T IEEE 802.3x Flow Control IEEE 802.1d Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1Q VLAN Tagging IEEE 802.1p Prioritization IEEE 802.1x Port Authentication IEEE 802.1ab Link Layer Discovery Protocol (LLDP) IEEE 802.3az Energy Efficient Ethernet ITU-T G8032v1/v2 Ethernet Ring Protection Switching (ERPS)
Redundancy function	Redundant DC power supply; STP; RSTP; ERPSv1/v2 (max. 2 rings per switch, max. 16 switches per ring, switching time < 800 ms)
Configuration options	DIP switch for signal contact Web-Based Management Command Line Interface SNMPv1/v2c/v3
Diagnostics	Signal contact; Modbus TCP; port status; port statistics; port load; traffic monitor; syslog; SNMP traps; loop detection; diagnostics dashboard; topology map
Safety	Access-control list with max. 32 entries; port security; IEEE 802.1X authentication
MAC table (size)	8000 addresses
Jumbo frame size	10000. Byte
Supply voltage	12 ... 60 VDC
Power consumption (max.)	12 W
ESD (contact/air discharge)	8 KV / 15 KV
Baud rate	Copper cable: 10/1000 Mbit/s
VLAN	Port-based and tag-based (max. 5 VLANs)

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



## Connection data

Connection technology: communication/fieldbus

Copper cable: 16 x RJ-45

## Physical data

Width 50 mm / 1.969 inches

Height 160 mm / 6.299 inches

Depth 120 mm / 4.724 inches

## Mechanical Data

Weight 840 g

Conformity marking CE

## Environmental requirements

Ambient temperature (operation) -40 ... +60 °C

Ambient temperature (storage) -40 ... +85 °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

## Commercial data

ETIM 8.0 EC000734

ETIM 7.0 EC000734

PU (SPU) 1 pcs

Country of origin TW

GTIN 4066966072969

Customs tariff number 85176200000

## Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

## Approvals / Certificates

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

WAGO GmbH &amp; Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.



## General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02.B.00087/19
	<b>KC</b> National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-ISW852
	<b>UL</b> Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

## Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

## Downloads

## Documentation

## Manual

Product Manual Lean Managed Switch 16 Ports 1000BASE-T	V 1.0.0 2020 年9月23 日	pdf 8.2 MB	Download
---	-------------------------	---------------	----------

## Bid Text

ausschreiben.de 852-1816		URL	Download
--------------------------	--	-----	----------

## Runtime Software

## Firmware

0852-1816, Lean-Managed-Switch WAGO_FW0852-1816_V010200S0_IX03	V 03 2022 年11月22 日	zip 10.2 MB	Download
---	-----------------------	----------------	----------

## CAD/CAE-Data

## CAD data

2D/3D Models 852-1816

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

WAGO GmbH & Co. KG  
 Hansastr. 27  
 32423 Minden  
 Phone: +49571 887-0 | Fax: +49571 887-169  
 Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
 We are always happy to take your call at +49 (571) 887-44222.



-----

[URL](#) [Download](#)

#### CAE data

ZUKEN Portal 852-1816

[URL](#) [Download](#)

EPLAN Data Portal 852-1816

[URL](#) [Download](#)

### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 852-1816  
Lean Managed Switch; 16 Ports 1000Base-T

[URL](#) [Download](#)

### Installation Notes

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