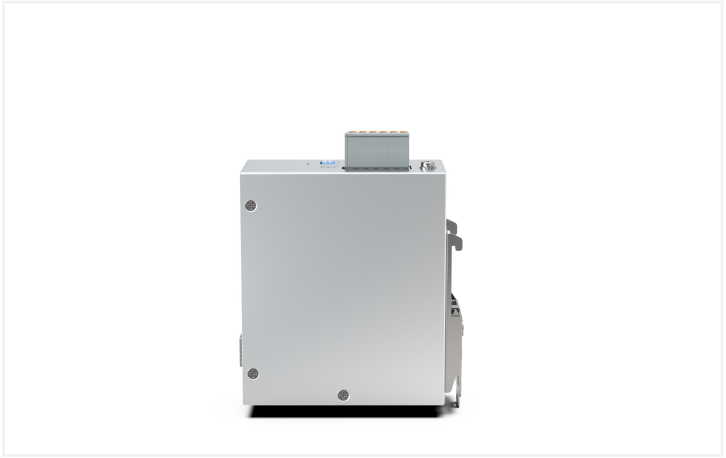
# Data Sheet | Item Number: 852-1813

Lean Managed Switch; 8 Ports 1000Base-T; 2-Slot 1000BASE-SX/LX

https://www.wago.com/852-1813





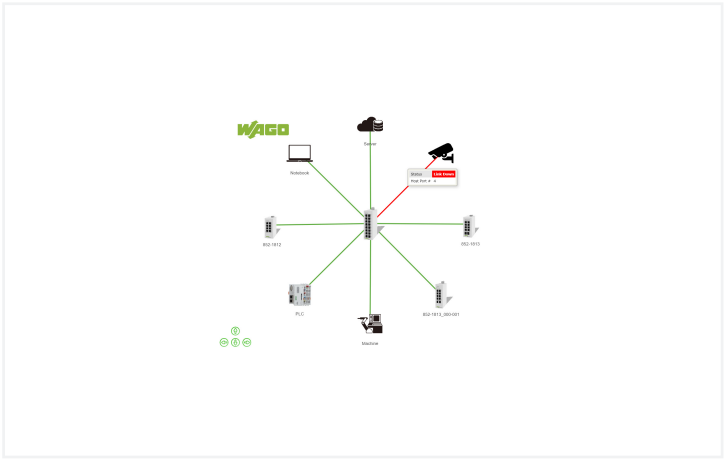


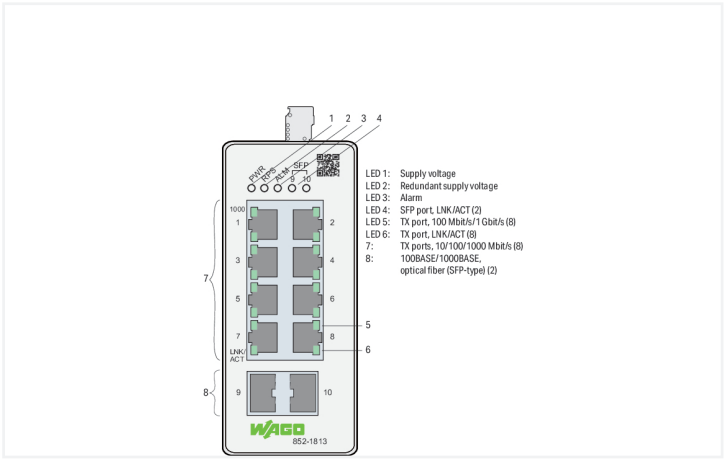













The configurable 852-1813 Industrial ETHERNET Switch is equipped with eight 10/100/1000BASE-T ports and two 100BASE-FX/1000BASE-SX/LX/ZX SFP ports (SFP modules are available as an option).
Packaged in a rugged housing, this switch offers both a redundant power supply and relay-based function monitoring. 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:**
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

## Technical data

| | |
|---|---|
| Switching mode | Store-and-forward; non-blocking |
| Number of 1 Gb/s ports | 8 |
| Number of 1 Gb/s ports SFP | 2 |
| Communication standards | IEEE 802.3 10BASE-T<br>IEEE 802.3u 100BASE-TX/FX<br>IEEE 802.3ab 1000BASE-T<br>IEEE 802.3z 1000BASE-SX/LX<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 802.1Q VLAN Tagging<br>IEEE 802.1p Prioritization<br>IEEE 802.1X Port Authentication<br>IEEE 802.1ab Link Layer Discovery Protocol (LLDP)<br>IEEE 802.3az Energy Efficient Ethernet<br>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<br>Web-Based Management<br>Command Line Interface<br>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<br>Alarm contact; Alarm relay; NO; 1 A at 24 VDC |
| Security | Access-control list with max. 32 entries; port security; IEEE 802.1X authentication |
| MAC table (size) | 8000 addresses |
| Jumbo frame size | 10000 bytes |
| Supply voltage | 24 … 48 VDC; (±15 %); 24 … 48 VDC (UL) |
| Power consumption (max.) | 11 W |
| Current consumption (max.) | 400 mA |
| ESD (contact/air discharge) | 8 KV / 15 KV |
| Transmission rate | Copper cable: 10/1000 Mbit/s; Fiber optic:100/1000 Mbit/s |
| Transmission medium (communication/fieldbus) | Fiber optic: SX Multi-Mode, LX Single-Mode |


Continued on next page

## Technical data

| | |
|---|---|
| Optical fiber type | Single-mode and multi-mode |
| VLAN | Port-based and tag-based (max. 5 VLANs) |

## Connection Data

| | |
|---|---|
| Connection technology: communication/fieldbus | Copper cable: 8 x RJ-45; Fiber optic: 2 x SFP slots (e.g., with SFP module and LC fiber-optic connector) |

## Physical data

| | |
|---|---|
| Width | 50 mm / 1.969 inches |
| Height | 116 mm / 4.567 inches |
| Depth | 100 mm / 3.937 inches |

## Mechanical data

| | |
|---|---|
| Mounting type | DIN-35 rail |

## Material data

| | |
|---|---|
| Weight | 570 g |
| Conformity marking | CE |

## Environmental requirements

| | |
|---|---|
| Ambient temperature (operation) | -40 … +60 °C |
| Ambient temperature (storage) | -40 … +85 °C |
| Protection type | IP30 |
| Note on protection type | Use per UL 61010: Indoor |
| Pollution degree | 2 per UL 61010 |
| Relative humidity (without condensation) | 95 % |
| 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 |

## Data Act

| | |
|---|---|
| Pre-contractual Information | <a href="https://www.wago.com/global/d/Data-Act-AUT-Products-Switches">Data-Act-AUT-Products-Switches</a> |

## Commercial data

| | |
|---|---|
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | TW |
| GTIN | 4066966072983 |
| Customs tariff number | 85176200000 |


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## Product Classification

| | |
|---|---|
| UNSPSC | 43222612 |
| ETIM 9.0 | EC000734 |
| ETIM 10.0 | EC000734 |
| ECCN | 5A992.C |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Approval | Standard | 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) | - | E175199 |

### Declarations of conformity and manufacturer's declarations

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

## Downloads

### Environmental Product Compliance

**Compliance Search**

| | |
|---|---|
| Environmental Product Compliance 852-1813 | |

### Documentation

**Manual**

| | | | |
|---|---|---|---|
| Function manual Lean Managed Switch | m085218xx \| 2.0.0 \| en \| 01.10.2026 20.10.2026 | pdf<br>2748.28 KB | |
| Product Manual Lean Managed Switch | V 1.0.0<br>24.08.2020 | pdf<br>8311.85 KB | |

**Additional Information**

| | | |
|---|---|---|
| 852-1813,Lean Managed Switch; 8 1000BASE-T Ports; 2 1000BASE-FX/ TX Slots | pdf<br>171.99 KB | |

**Bid Text**

| | | |
|---|---|---|
| 852-1813 | docx<br>24.41 KB | |
| 852-1813 | x81<br>7.97 KB | |
| ausschreiben.de<br>852-1813 | | |


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## CAD/CAE-Data

### CAD data

2D/3D Models 852-1813

### CAE data

EPLAN Data Portal
852-1813

ZUKEN Portal 852-1813

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Plug

##### 1.1.1.1 SFP module



Item No.: 852-1210
SFP Module 1000BASE; LX Single-Mode 1310 nm LC; 10 km; Extended temperature range; Digital Diagnostics Monitoring; silver-colored



Item No.: 852-1200
SFP Module 1000BASE; SX Multi-Mode 850 nm LC; 0.55 km; Extended temperature range; Digital Diagnostics Monitoring; silver-colored



Item No.: 852-1280
SFP Module 1000BASE; ZX Single-Mode 1550 nm LC; 80 km; Extended temperature range; Digital Diagnostics Monitoring; silver-colored



Item No.: 852-202
SFP Module 100BASE; FX Multi-Mode 1310 nm LC; 2 km; DDM; Extreme; silver-colored



Item No.: 852-201/107-002
SFP Module 100BASE; FX Multi-Mode 1310 nm LC; 2 km; silver-colored



Item No.: 852-201/107-030
SFP Module 100BASE; LX Single-Mode 1310 nm LC; 30 km; silver-colored