



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 Gbit/s ports	8
Number of 1 Gbit/s SFP ports	2

## Technical data

Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/FX IEEE 802.3ab 1000BASE-T 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 802.1Q 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 bytes
Supply voltage	24 ... 48 VDC; ( $\pm 15\%$ ); 24 ... 48 VDC (UL)
Power consumption (max.)	11 W
ESD (contact/air discharge)	8 KV / 15 KV
Baud rate	Copper cable: 10/1000 Mbit/s; Fiber optic: 1000 Mbit/s
Transmission medium (communication/fieldbus)	Fiber optic: SX Multi-Mode, LX Single-Mode
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)
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## Physical data

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

## Mechanical data

Weight	570 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
Fire load	0 MJ

Commercial data	
ETIM 8.0	EC000734
ETIM 7.0	EC000734
PU (SPU)	1 pcs
Country of origin	TW
GTIN	4066966072983
Customs tariff number	85176200000

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

### Approvals / Certificates

#### General approvals



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

#### Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

### Downloads

#### Environmental Product Compliance

Compliance Search
Environmental Product Compliance 852-1813 <a href="#">↓</a>

### Documentation

Manual			
Product Manual Lean Managed Switch	V 1.0.0 24.08.2020	pdf 8311.85 KB	<a href="#">↓</a>

Additional Information	
852-1813, Lean Managed Switch; 8 1000BASE-T Ports; 2 1000BASE-FX/TX Slots	pdf 171.99 KB <a href="#">↓</a>

Bid Text	
ausschreiben.de 852-1813	<a href="#">↓</a>

## CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 852-1813		EPLAN Data Portal 852-1813	
		ZUKEN Portal 852-1813	

## Runtime Software

Firmware			
0852-1813, Lean-Managed-Switch	V 03 22.11.2022	zip 9879.54 KB	

## 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; DDM; 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.: 852-201/107-002**

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