Data Sheet | Item Number: 852-1813/010-000

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

https://www.wago.com/852-1813/010-000

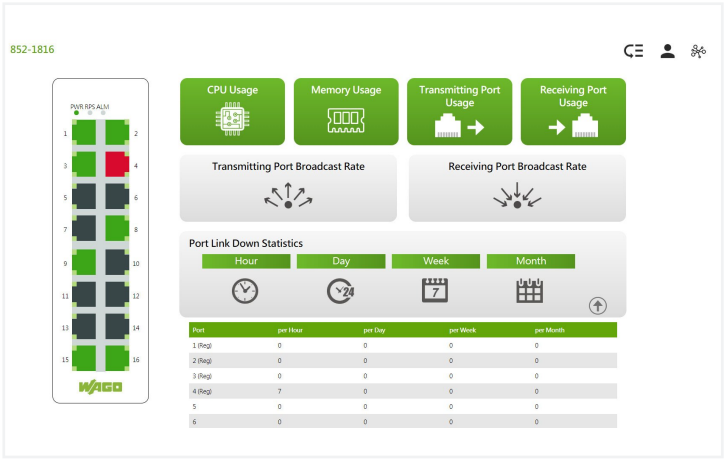


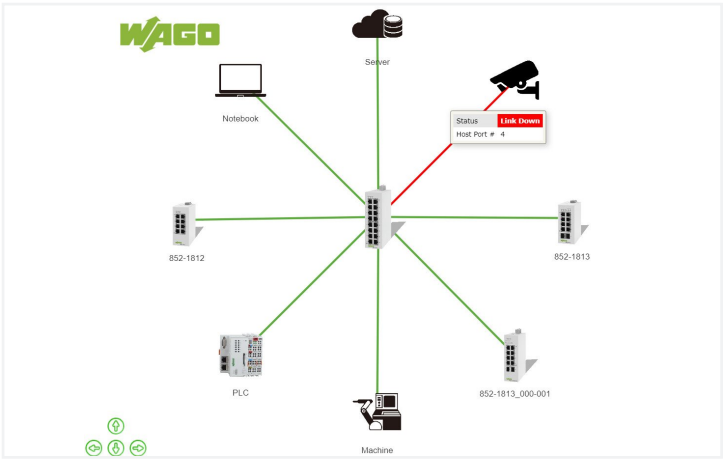


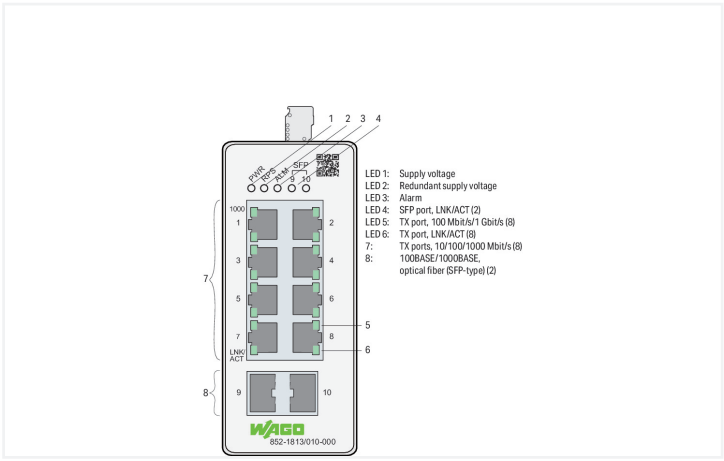









Server
Notebook
Status
Link Down
Host Port # 4
852-1812
852-1813
PLC
852-1813_000-001
Machine


1 2 3 4
PWR
RPS
ALM
SFP
9 10
1000
1
2
3
4
5
6
7
8
LNK/ACT
9
10
852-1813/010-000
LED 1: Supply voltage
LED 2: Redundant supply voltage
LED 3: Alarm
LED 4: SFP port, LNK/ACT (2)
LED 5: TX port, 100 Mbit/s/1 Gbit/s (8)
LED 6: TX port, LNK/ACT (8)
7: TX ports, 10/100/1000 Mbit/s (8)
8: 100BASE/1000BASE, optical fiber (SFP-type) (2)

The configurable 852-1813/010-000 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 100 Mbit/s ports SFP	2
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; (±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: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)

 Continued on next page

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

Weight	570 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	-10 … +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 9.0	EC000734
ETIM 8.0	EC000734
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	TW
GTIN	4066966163414
Customs tariff number	85176200000

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-ISW852
UL Underwriters Laboratories Inc. (ORDINARY LOCATI-ONS)	UL 61010-2-201	E175199

Declarations of conformity and manufacturer's declarations

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

Continued on next page

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 852-1813/010-000	

Documentation

Manual

Product Manual Lean Managed Switch	V 1.0.0 01.06.2021	pdf 14147.25 KB	

Bid Text

852-1813/010-000	xml 8.51 KB	
852-1813/010-000	docx 31.52 KB	

CAD/CAE-Data

CAD data

2D/3D Models 852-1813/010-000	

CAE data

ZUKEN Portal 852-1813/010-000	

Runtime Software

Firmware

0852-1813/0010-0000, Lean-Managed-Switch	V 04 27.02.2024	zip 10077.02 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