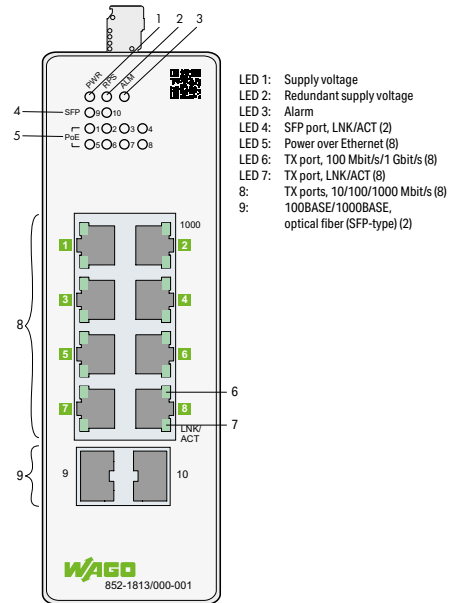


# Lean Managed Switch; 8 1000BASE-T Ports; 2 1000BASE-FX/TX Slots; 8 x Power over Ethernet



The 852-1813/000-001 is a configurable industrial ETHERNET switch with eight 10/100/1000BASE-T ports, all of which support 30 W "Power over Ethernet" (PoE+), and two SFP 100BASE-FX/1000BASE-LX/SX/ZX ports (SFP modules are available as an option). All eight PoE+ ports can be operated simultaneously (PoE power budget: 24 VDC = 120 W or 48 VDC = 240 W).

Enclosed 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

Description	Item No.	PU
Lean Managed Switch; 8 1000BASE-T ports; 2 1000BASE-SX/LX slots	852-1813/000-001	1
<b>Accessories</b>	<b>Item No.</b>	
SFP 1000BASE module; SX multimode 850 nm LC; 0.55 km; DDM	852-1200	
SFP 1000BASE module; LX single-mode 1310 nm LC; 10 km; DDM	852-1210	
SFP 1000BASE module; ZX single-mode 1550 nm LC; 80 km; DDM	852-1280	
SFP module; 100BASE; FX multimode 1310 nm LC; 2 km	852-201/107-002	
SFP module; 100BASE; FX single-mode 1310 nm LC; 30 km	852-201/107-030	
<b>Approvals</b>		
Conformity marking	CE	
Ⓢ E175199 Ordinary Locations		
<b>Technical Data</b>		
Supply voltage	24 ... 57 VDC	
Power consumption (max.)	13 W; 253 W with 8 PoE+; 30 W per port	
PoE power budget	120 W (DC < 48 V); 240 W (DC ≥ 48 V)	
ESD (contact/air discharge)	8 kV / 15 kV	
Surrounding air temperature (operation)	-40 ... +60 °C	
Surrounding air temperature (storage)	-40 ... +85 °C	
Relative humidity (without condensation)	10 ... 95 % (operation); 5 ... 95 % (storage)	
Dimensions (mm), W × H × D	50 × 160 × 120	
	Depth from upper edge of DIN-rail	
Mounting	DIN-35 rail	
Weight	560 g	
Vibration resistance	Per IEC 60068-2-6	
Shock resistance	Per IEC 60068-2-27	
Protection type	IP30	
EMC immunity to interference	Per EN 61000-6-2	
EMC emission of interference	Per EN 61000-6-4	

Technical Data	
Switching mode	Store-and-forward, non-blocking
Number of copper ports	8 x 10/100/1000BASE-T (RJ-45); 8 x PoE+ (Power over Ethernet)
Number of optical fiber ports	2 x 1000BASE-SX/LX/ZX or 100BASE-FX (SFP slot)
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/FX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-SX/LX/ZX 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 802.3af Power over Ethernet (PoE) IEEE 802.3at High Power over Ethernet (PoE+) IEEE 802.3az EEE, Energy Efficient Ethernet ITU-T G8032v1/v2 Ethernet Ring Protection Switching (ERPS)
Redundancy functions	Redundant DC power supply; STP; RSTP; ERPSv1/v2 (max. 2 rings per switch, max. 16 switches per ring, switching time < 800 ms)
Configuration	DIP switch for signal contact; Web-Based Management; command line interface; SNMPv1/v2/v3
Diagnostics	Signal contact; Modbus TCP; port status; port statistics; port load; traffic monitor; SFP information; syslog; SNMP traps; loop detection; diagnostics dashboard; topology map
Security	Access-control list with max. 32 entries; IEEE 802.1X port security; authentication
MAC table	Up to 8000 addresses
VLAN	Port-based and tag-based (max. 5 VLANs)
Jumbo frame size	10 KB