



The 852-1813 is a configurable industrial ETHERNET switch with eight 10/100/1000BASE-T ports and two 100BASE-FX/1000BASE-SX/LX/ZX SFP ports (SFP modules are available as an option).

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 devices per IEEE802.1X, firewall functions using the 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	1
Accessories	Item No.	
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	
Approvals		
Conformity marking	CE	
E175199 Ordinary Locations		
Technical Data		
Supply voltage	24 ... 48 VDC (±15 %); 24 ... 48 VDC (UL)	
Power consumption (max.)	11 W	
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 × 116 × 100	
	Depth from upper edge of DIN-rail	
Mounting	DIN-35 rail	
Weight	570 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 × 10/100/1000BASE-T (RJ-45)
Number of optical fiber ports	2 × 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 802.3az 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