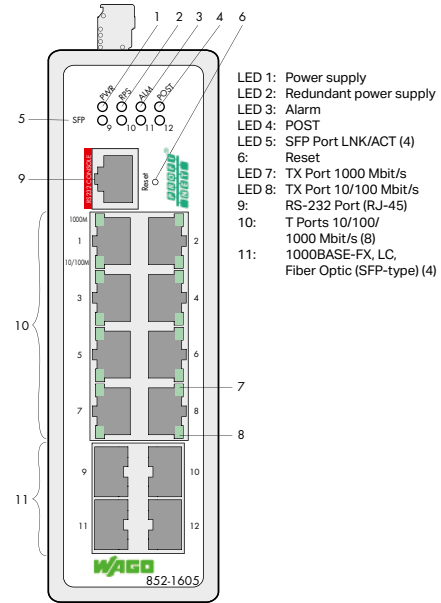


# Industrial Managed Switch; 8 Ports 1000BASE-T; 4 Slots 1000BASE-SX/LX; PROFINET; Extended Temperature Range



The configurable 852-1605 Industrial Switch is a managed ETHERNET switch equipped with eight 10/100/1000BASE-T copper ports, four SFP-1000BASE-SX/LX slots and optional SFP modules.

Packaged in a rugged housing, this switch features both a redundant power supply and relay-based function monitoring. The PROFINET certificate (conformity class B) guarantees easy integration into PROFINET automation systems using the device description file (GSD). In addition, the device supports the "PROFINET Netload Class II." The device supports flexible multi-port mirroring configuration via device description file or Web-based management. Function blocks allow cyclic PROFINET switch diagnostics to be efficiently implemented within the TIA Portal. An application note that outlines this process is available.

#### Features:

- Web-based/SNMP management

- Redundant DC power supply
- Power supply range: 12 ... 60 VDC
- DIP switches to set alarm functions
- Full compliance with IEEE802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1d, 802.1w, 802.1s, 802.1Q, 802.1p standards
- Media redundancy protocol (MRP) as manager (MRM) or client (MRC), redundant ring
- Non-blocking, store-and-forward switching, rapid spanning tree protocol (RSTP)
- Autonegotiation and AUTO-MDI/MDIC (crossover)
- VLAN (802.1Q) VID
- IGMP snooping
- Port configuration, status, statistics
- Port trunking and multi-port mirroring
- SNMP v1/v2c/v3 and RMON
- Time synchronization via SNTP
- Storm control, bandwidth limitation and loop detection

Description	Item No.	Pack. Unit
Industrial Managed Switch; 8Port 1000BASE-T; 4Slot 1000BASE-SX/LX; PROFINET; T	852-1605	1
<b>Accessory</b>	<b>Item No.</b>	
SFP Module: 850 nm; 1000BASE-SX Multi-Mode; DDM; LC; 0.55 km	852-1200	
SFP Module: 1310 nm; 1000BASE-LX Single-Mode; DDM; LC; 10 km	852-1210	
SFP Module: 1550 nm; 1000BASE-ZX Single-Mode; DDM; LC; 80 km	852-1280	
<b>Approvals</b>		
Conformity marking	CE	
Ⓢ E175199 Ordinary Locations	UL 61010-2-201	
<b>Technical Data</b>		
MAC table	Up to 16000 addresses	
VLAN	Port-based and tag-based (4k VIDs)	
Jumbo frame size	10 KB	
Supply voltage	12 ... 60 VDC	
Power consumption (max.)	12 W	
ESD (contact/air discharge)	8 KV / 15 KV	
Surrounding air temperature (operation)	-40 ... +70 °C	
Surrounding air temperature (storage)	-40 ... +80 °C	
Protection type	IP30	
Relative humidity (without condensation)	10 ... 95 %	
Dimensions (mm) W x H x D	50 x 162 x 120	
Mounting	Depth from upper-edge of DIN-rail	
Weight	DIN-35 rail	
Vibration resistance	935 g	
Shock resistance	Per IEC 60068-2-6	
Protection type	Per IEC 60068-2-27	
EMC immunity to interference	IP30	
EMC emission of interference	Per EN 61000-6-2	
	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)
Number of FOC ports	4 x 1000BASE-SX/LX (SFP)
Communication standards	IEEE 802.3 10BASE-T
	IEEE 802.3u 100BASE-TX
	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 802.1s Multiple Spanning Tree Protocol (MSTP)
	IEEE 802.1Q VLAN Tagging
	IEEE 802.1p Class of Service
	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)
	PROFINET Conformance Class B
Redundancy functions	Redundant DC power supply; STP; RSTP; MSTP; Media redundancy protocol as manager or client
Configuration	DIP switch for signal contact; Web-based CLI; SNMPv1/v2/v3
Diagnostics	Signal contact; Port status; Port statistics; Port load; Traffic monitor; SFP information; Syslog; SNMP traps; PN diagnostics (cyclic and acyclic)
Firmware update	Web-based management; CLI with TFTP server
PROFINET	PROFINET Device; PROFINET Conformance Class B; Netload Class II; Media redundancy protocol (MRP) as manager (MRM) or client (MRC); PNIO Version V2.32; Identification & Maintenance Functions