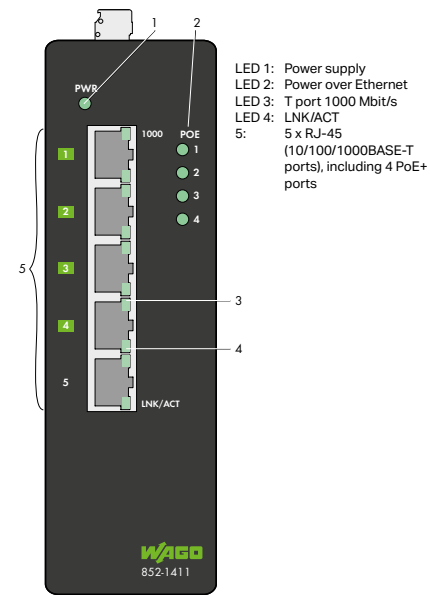


Industrial ECO Switch; 5 Ports 1000BASE-T; Extended Temperature Range; 4 * Power over Ethernet



The 852-1411 Industrial ECO Switch is a 5-port 1000BASE-T ETHERNET switch, of which four ports support Power over Ethernet (PoE+) at 30 W. These four PoE+ ports can be used simultaneously for power supply. The integrated voltage transformer enables operation on the 24 VDC power supplies common in the control cabinet. In addition to the reduced wiring effort, a separate power supply for the PoE supply can be saved. The switch can be easily configured and integrated into the control cabinet via DIN-rail mounting. It is particularly well suited to small and medium networks.

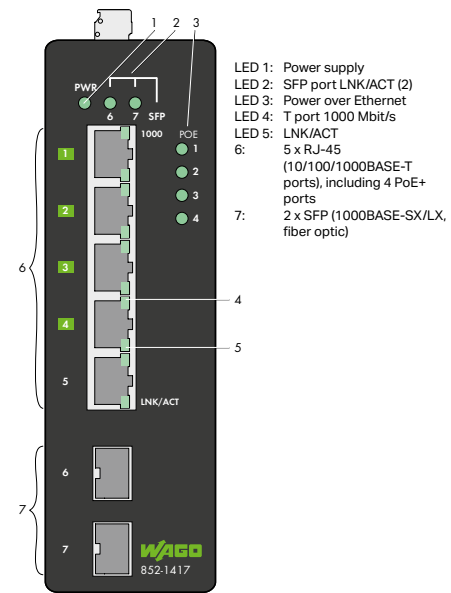
Features:

- 5 ETHERNET ports, 10/100/1000 Mbit/s, autonegotiation
- 4 PoE+ ports (IEEE 802.3at)
- Front-panel diagnostic LEDs
- Supports Auto-MDI/MDI-X functions
- Full/half-duplex transfer modes for each port
- Store-and-forward switching method
- Integrated address look-up table, supports up to 8,000 absolute MAC addresses
- Overvoltage protection
- IEEE 802.3x flow control in full-duplex mode
- For DIN-35 rail

Description	Item No.	Pack. Unit
Industrial ECO Switch; 5Port Gb; EXT; 4PoE	852-1411	1
Approvals		
Conformity marking	CE	
UL 508	Pending	
Technical Data		
Operating temperature	-40 ... +70 °C	
Storage temperature	-40 ... +80 °C	
Relative humidity (without condensation)	95 %	
Dimensions (mm) W x H x D	50 x 120 x 160	
	Height from upper-edge of DIN-rail	
Mounting	DIN-35 rail	
Weight	800 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	
Number of ports (copper)	5 x 10/100/1000Base-T (RJ-45)
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet (PoE) IEEE 802.3at High Power over Ethernet (PoE+) IEEE 802.1p Prioritization
Topology	Star
MAC table	Up to 8000 addresses
Jumbo frame size	10 KB
LED	Each device: 1x Power (PWR), green; 4 x PoE, green Each port: 1 x 1000 Mbit/s, green; 1 x LNK/ACT green
Power supply	24 ... 57 VDC
Power consumption (max.)	13 W; 133 W with 4 PoE

Industrial ECO Switch; 5 Ports 1000BASE-T; 2 Slots 1000BASE-SX/LX Extended Temperature Range; 4 * Power over Ethernet



The 852-1417 Industrial ETHERNET Switch features five 1000BASE-T ports, of which four ports support Power over Ethernet (PoE+) with 30 W, and has two SFP-1000BASE-SX / LX ports (SFP modules are available as an option). These four PoE+ ports can be used simultaneously for power supply. The integrated voltage transformer enables operation on the 24 VDC power supplies common in the control cabinet.

In addition to the reduced wiring effort, a separate power supply for the PoE supply can be saved.

The switch can be easily configured and integrated into the control cabinet via DIN-rail mounting. It is ideal for small and medium networks, but also offers the integration into extensive networks through its SFP slots.

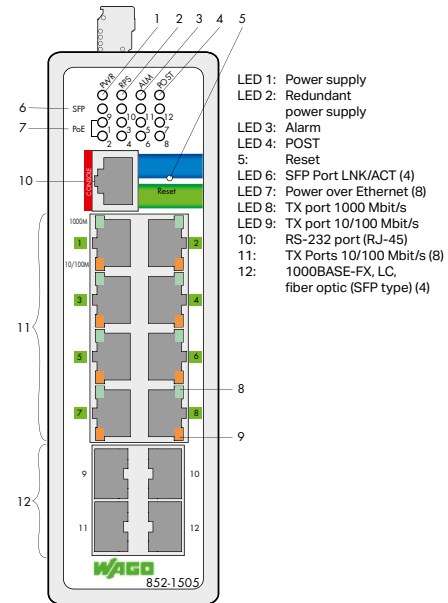
Features:

- 5 ETHERNET ports, 10/100/1000 Mbit/s, autonegotiation
- 4 PoE+ ports (IEEE 802.3at)
- 2 SFP slots, 1000 Mbit/s
- Front-panel diagnostic LEDs
- Supports Auto-MDI/MDI-X functions
- Full/half-duplex transfer modes for each port
- Store-and-forward switching method
- Integrated address look-up table, supports up to 8000 absolute MAC addresses
- Overvoltage protection
- IEEE 802.3x flow control in full-duplex mode
- For DIN-35 rail

Description	Item No.	Pack. Unit
Industrial ECO Switch; 5Port Gb; 2Slot 1000BASE-SX/LX; EXT; 4PoE	852-1417	1
Accessories	Item No.	
SFP Module: 850 nm, 1000BASE-SX, Multi-Mode, DDM, LC, -40 ... +85 °C, 0.55 km,	852-1200	
SFP Module: 1310 nm, 1000BASE-LX, Single-Mode, DDM, LC, -40 ... +85 °C, 10 km	852-1210	
SFP Module: 1550 nm, 1000BASE-ZX, Single-Mode, DDM, LC, -40 ... +85 °C, 80 km	852-1280	
Approvals		
Conformity marking	CE	
UL 508	pending	
Technical Data		
Operating temperature	-40 ... +70 °C	
Storage temperature	-40 ... +80 °C	
Relative humidity (without condensation)	95 %	
Dimensions (mm) W x H x D	50 x 120 x 160	
	Height from upper-edge of DIN-rail	
Mounting	DIN-35 rail	
Weight	520 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	
Number of ports (copper)	5 x 10/100/1000Base-T (RJ-45)
Number of ports, FOC	2 x 1000BASE-SX/LX (SFP)
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 802.3af Power over Ethernet (PoE) IEEE 802.3at High Power over Ethernet (PoE+) IEEE 802.1p Prioritization
Topology	Star
MAC table	Up to 8000 addresses
Jumbo frame size	10 KB
LED	Each device: 1x Power (PWR), green; 4 x PoE, green Each port: 1 x 1000 Mbit/s, green; 1 x LNK/ACT green
Power supply	24 ... 57 VDC
Power consumption (max.)	14 W; 134 W with 4 PoE

Industrial Managed Switch; 8 Ports 1000BASE-T; 4 Slots 1000BASE-SX/LX; Extended Temperature Range; 8 * Power over Ethernet



The configurable 852-1505 Industrial ETHERNET Switch features eight 10/100/1000BASE-T ports that all support Power over Ethernet (PoE+) at 30 W, and has four SFP-1000BASE-SX/LX ports (SFP modules are available as an option). All eight PoE+ ports can be operated simultaneously. The switch has a rugged housing, redundant power supply and function monitoring with a relay. These functions, along with extensive ETHERNET switch options, make it ideal for a wide range of applications.

Features:

- Web-based/SNMP management
- Redundant DC power supply
- Supply voltage range: 48 ... 57 VDC
- DIP switches to set alarm functions

- Full compliance with IEEE802.3, 802.3u, 802.3z, 802.3x, 802.3ad, 802.3ab, 802.1d, 802.1q, 802.1p, 802.1w, 802.1x and 802.3at standards
- Xpress Ring (redundant ring, switching time < 20 ms)
- Non-blocking, store-and-forward switching, rapid spanning tree protocol (RSTP)
- Auto-negotiation at all 10/100/1000Base-T ports
- Auto-MDI/MDIX (crossover) at all 10/100/1000Base-T ports
- VLAN (802.1q) VID
- IGMP snooping for multicast filtering
- Port configuration, status, statistics
- Port trunking
- SNMP v1/v2 and RMON

Description	Item No.	Pack. Unit
Industrial Managed Switch; 8Port 1000BASE-T; 4Slot 1000BASE-SX/LX; EXT; 8PoE	852-1505	1
Accessories	Item No.	
SFP Module: 850 nm, 1000BASE-SX, Multi-Mode, DDM, LC, -40 ... +85 °C, 0.55 km,	852-1200	
SFP Module: 1310 nm, 1000BASE-LX, Single-Mode, DDM, LC, -40 ... +85 °C, 10 km	852-1210	
SFP Module: 1550 nm, 1000BASE-ZX, Single-Mode, DDM, LC, -40 ... +85 °C, 80 km	852-1280	
Approvals		
Conformity marking	CE	
UL 508	Pending	
Technical Data		
MAC table	Up to 16000 addresses	
VLAN	Port-based and tag-based (4k VIDs)	
Jumbo frame size	10 KB	
Power supply	48 ... 57 VDC	
Power consumption (max.)	18 W; 258 W mit 8 PoE+	
ESD (contact/air discharge)	8 KV / 15 KV	
Operating temperature	-40 ... +70 °C	
Storage temperature	-40 ... +80 °C	
Relative humidity (without condensation)	95 %	
Dimensions (mm) W x H x D	50 x 120 x 162	
Mounting	Height from upper-edge of DIN-rail	
Weight	910 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	Non-blocking, store-and-forward switching
Number of ports (copper)	8 x 10/100/1000BASE-T (RJ-45); 8 x PoE+ (Power over Ethernet)
Number of ports, FOC	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 802.3ad Port Trunk with LACP 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 Prioritization IEEE 802.1x Port Authentication IEEE 802.1ab Link Layer Discovery Protocol (LLDP) IEEE 802.3ad Port Trunk with LACP IEEE 1588v2 Precision Time Protocol (PTP) IEEE 802.3af Power over Ethernet (PoE) IEEE 802.3at High Power over Ethernet (PoE+) ITU-T G8032v1/v2 Ethernet Ring Protection Switching (ERPS)
Redundancy functions	Redundant DC power supply, STP, RSTP, MSTP, Jetring < 300 ms, Xpress Ring < 20 ms, Dual Homing < 20 ms, Dual Ring, ERPSv2 < 50 ms, LCAP
Configuration	DIP switch for signal contact, Web-based CLI, SNMPv1/v2/v3
Diagnostics	Signal contact, MODBUS/TCP, port status, port statistics, port load, traffic monitor, SFP information, syslog, mail alarm, SNMP traps