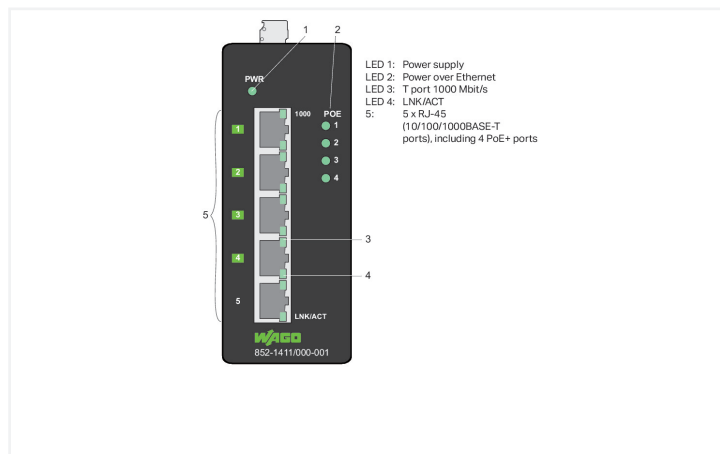


## Data Sheet | Item Number: 852-1411/000-001

Industrial-ECO-Switch; 5-port 1000Base-T; 4 \* Power over Ethernet; Extended temperature range

<https://www.wago.com/852-1411/000-001>



This unmanaged industrial ETHERNET switch (852-1411/000-001) has five Gigabit ETHERNET ports, four of which support Power over Ethernet (PoE+) at 30 W. The four PoE+ ports (IEEE 802.3at) can be used simultaneously to power PoE end devices (powered devices). The integrated voltage transformer enables operation with 24 VDC, which is the standard supply voltage in control cabinets.

Its slim design paired with a DIN-rail adapter simplifies installation in the control cabinet and provides high vibration and shock resistance. Additionally, automatic transmission rate detection (auto-negotiation) and automatic identification of the transmit and receive lines (Auto MDI-X) allow simple plug-and-play operation, saving time and money during commissioning.

### 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 8000 absolute MAC addresses
- Overvoltage protection
- IEEE 802.3x flow control in full-duplex mode
- LED indicator for PoE diagnostics
- DIN-35 rail mounting

### Notes

Note	Observe PoE budget for UL: for supply voltage $\geq$ 48 VDC and 120 watt PoE budget or $<$ 48 VDC and 60 watt PoE budget
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### Technical data

Number of 1 Gb/s ports	5
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
MAC table (size)	8000 addresses
Jumbo frame size	10000 bytes
Supply voltage	24 ... 57 VDC
Power consumption (max.)	13 W
Power consumption (note)	133 W with 4 PoE

### Technical data

Current consumption (max.)	6000 mA
Transmission rate	Copper cable: 10/1000 Mbit/s
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5e or higher, 100 m maximum cable length
Topology	Star
Power over Ethernet (PoE) features	Available power for powered devices (PD): 25.5 W Power (max.) from the power sourcing equipment (PSE): 30 W Voltage (PSE): 24 ... 57 VDC Voltage (PD): 50 ... 57 VDC Current (max.): 600 mA Resistance (max.): 12.5 Ω (Category 5) PoE power budget: 120 W PoE-supported operating mode: Mode A
Indicators	Device: LED (PWR) green: Power supply; LED (PoE 1 ... 4) green: Power over Ethernet; per port: LED (1000, LNK/ACT) green: Status 1000 Mbit/s, LNK/ACT ports 1 ... 5

### Connection Data

Connection technology: communication/fieldbus	Copper cable: 5 x RJ-45
Connection technology: supply	1 x Built-in male connector: 231-432/001-000; included female connector (MCS Connectors): 2231-102/026-000

### Physical data

Width	50 mm / 1.969 inches
Height	104 mm / 4.094 inches
Depth	115 mm / 4.528 inches

### Mechanical data

Mounting type	DIN-35 rail
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### Material data

Housing material	Sheet steel
Fire load	0.079 MJ
Weight	550 g
Conformity marking	CE

### Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C (per CE; -10 ... +60 °C per UL 61010)
Ambient temperature (storage)	-40 ... +80 °C
Protection type	IP30
Relative humidity (without condensation)	95 %
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

**Commercial data**

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	TW
GTIN	4055143933179
Customs tariff number	85176200000

**Product Classification**

UNSPSC	43222612
ETIM 9.0	EC000734
ETIM 10.0	EC000734
ECCN	NO US CLASSIFICATION

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates**

General approvals			Declarations of conformity and manufacturer's declarations		
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199			

**Downloads**

**Environmental Product Compliance**

Compliance Search	
Environmental Product Compliance 852-1411/000-001	<a href="#">↓</a>

**Documentation**

Manual				System Description			
Product Manual Industrial-ECO-Switch; 5Port Gb; EXT; 4PoE	V 1.0.0 08.11.2019	pdf 1347.25 KB	<a href="#">↓</a>	Industrial Switches – General Product Information		pdf 1873.93 KB	<a href="#">↓</a>

Bid Text		
852-1411/000-001	xml 6.82 KB	
852-1411/000-001	docx 16.17 KB	

CAD/CAE-Data	
<b>CAD data</b>	<b>CAE data</b>
2D/3D Models 852-1411/000-001	ZUKEN Portal 852-1411/000-001

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Cables and connectors

##### 1.1.1.1 Connector plug



**Item No.: 750-979/000-011**  
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief

**Item No.: 750-979/000-021**  
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief

**Item No.: 750-979/000-012**  
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief

**Item No.: 750-979/000-022**  
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief



**Item No.: 750-977/000-011**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22

**Item No.: 750-978/000-011**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief

**Item No.: 750-977/000-021**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24

**Item No.: 750-978/000-021**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief



**Item No.: 750-977/000-012**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22

**Item No.: 750-978/000-012**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief

**Item No.: 750-977/000-022**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24

**Item No.: 750-978/000-022**  
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief



**Item No.: 750-979/000-013**  
Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief

**Item No.: 750-977/000-013**  
Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22

**Item No.: 750-978/000-013**  
Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief

**Item No.: 750-976**  
PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

### 1.1.2 Interface module

#### 1.1.2.1 Interface module



**Item No.: 289-195**  
Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection

### 1.1.3 Power supply

#### 1.1.3.1 Power Supply



**Item No.: 787-1635**

Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost; DC OK contact

**Item No.: 787-1633**

Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost; DC OK contact

**Item No.: 787-1226**

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 6 A output current; DC-OK LED

**Item No.: 787-1722**

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED