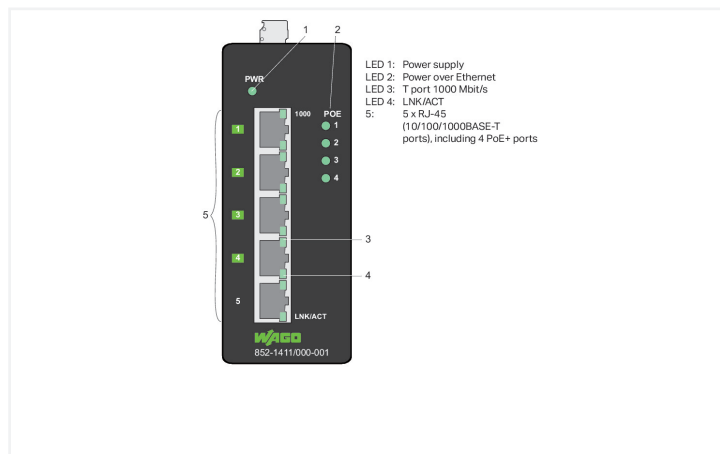


Data Sheet | Item Number: 852-1411/000-001

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 |
|------|--|

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 |
|---------------|-------------|

Material data

| | |
|--------------------|-------------|
| Housing material | Sheet steel |
| Fire load | 0.076 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 |
|------------------------|-------------------------|

Approvals / Certificates

General approvals **Declarations of conformity and manufacturer's declarations**



| Approval | Standard | Certificate Name |
|----------------------------|----------------|------------------|
| EAC GZO Almaty Standart | TP TC 020/2011 | EAC CoC 03083 |

| Approval | Standard | Certificate Name |
|--|----------|------------------|
| EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Downloads

Environmental Product Compliance

| Compliance Search | |
|--|-------------------|
| Environmental Product Compliance 852-1411/000-001 | ↓ |

Documentation

| Manual | | | System Description | | |
|---|-----------------------|-------------------|---|-------------------|-------------------|
| Product Manual Industrial-ECO-Switch; 5Port Gb; EXT; 4PoE | V 1.0.0 08.11.2019 | pdf 1347.25 KB | Industrial Switches – General Product Information | pdf 1873.93 KB | ↓ |

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

CAD/CAE-Data

CAD data
 2D/3D Models
 852-1411/000-001

CAE data
 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

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at: www.wago.com