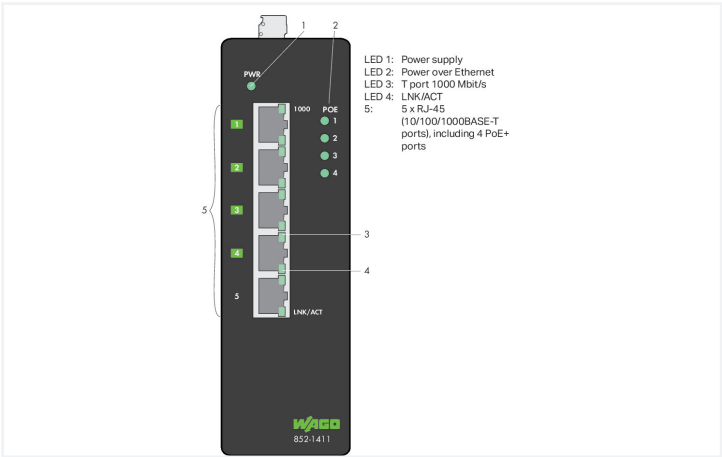




This unmanaged industrial ETHERNET switch (852-1411) has five Gigabit ETHERNET ports, four of which support Power over Ethernet (PoE+) at 30 W. The four PoE+ ports (IEEE 802.3at) can be used simultaneously to power PoE end devices (powered devices). The integrated voltage transformer enables operation 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
- Data flow control, per IEEE 802.3x Flow Control, in full-duplex mode
- Prioritization of ETHERNET data packets (PROFINET protocol, EtherType=0x8892) per IEEE802.1p
- DIN-35 rail mounting

| Technical data                               |                                                                                                                                                                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of 1 Gb/s ports                       | 5                                                                                                                                                                                                                            |
| Communication standards                      | IEEE 802.3 10BASE-T<br>IEEE 802.3u 100BASE-TX<br>IEEE 802.3ab 1000BASE-T<br>IEEE 802.3x Flow Control<br>IEEE 802.3af Power over Ethernet (PoE)<br>IEEE 802.3at High Power over Ethernet (PoE+)<br>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                                                                                                                                                                                                             |
| 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                                                                                                                                                                                                                         |



| Technical data                     |                                                                                                                                                                                                                                                                                                                      |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power over Ethernet (PoE) features | Available power for powered devices (PD): 25.5 W<br>Power (max.) from the power sourcing equipment (PSE): 30 W<br>Voltage (PSE): 24 ... 57 VDC<br>Voltage (PD): 50 ... 57 VDC<br>Current (max.): 600 mA<br>Resistance (max.): 12.5 Ω (Category 5)<br>PoE power budget: 120 W<br>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        | 160 mm / 6.299 inches |
| Depth         | 120 mm / 4.724 inches |

| Mechanical data    |             |
|--------------------|-------------|
| Weight             | 520 g       |
| Housing material   | Sheet steel |
| 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 %                                                 |
| Mounting type                            | DIN-35 rail                                          |
| 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                                     |
| Fire load                                | 0.079 MJ                                             |

| Commercial data       |               |
|-----------------------|---------------|
| PU (SPU)              | 1 pcs         |
| Packaging type        | Box           |
| Country of origin     | TW            |
| GTIN                  | 4055143727167 |
| Customs tariff number | 85176200000   |



| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 43222612             |
| eCl@ss 10.0            | 19-17-01-30          |
| eCl@ss 9.0             | 19-17-01-06          |
| 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<br>GZO Almaty Standart                                                                                                                                                                                                                           | TP TC 020/2011         | EAC CoC 03083                                              |
| KC<br>National Radio Research Agency                                                                                                                                                                                                                 | Article 58-2, Clause 3 | MSIP-REM-W43-ISW852                                        |
| UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS)                                                                                                                                                                                            | UL 61010-2-201         | E175199                                                    |

| Downloads                                 |                                                                                     |
|-------------------------------------------|-------------------------------------------------------------------------------------|
| Environmental Product Compliance          |                                                                                     |
| Compliance Search                         |                                                                                     |
| Environmental Product Compliance 852-1411 |  |

| Documentation                                             |                       |                                                   |                                                                                                                      |
|-----------------------------------------------------------|-----------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Manual                                                    |                       | System Description                                |                                                                                                                      |
| Product Manual Industrial ECO Switch; 5Port Gb; EXT; 4PoE | V 1.2.0<br>17.12.2019 | pdf<br>1206.26 KB                                 |                                   |
|                                                           |                       | Industrial Switches – General Product Information | pdf<br>1873.93 KB<br>           |
| Bid Text                                                  |                       | Instruction Leaflet                               |                                                                                                                      |
| 852-1411                                                  | 19.02.2019            | xml<br>6.05 KB                                    |                                   |
| 852-1411                                                  | 23.07.2018            | doc<br>29.50 KB                                   |                                   |
| ausschreiben.de 852-1411                                  |                       |                                                   |                                   |
|                                                           |                       | Gebrauchs- und Montageanleitung 852-1411          | V 1.0.0<br>pdf<br>721.30 KB<br> |



| CAD/CAE-Data                                                                 |                                                                              |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <div>CAD data</div> <div>2D/3D Models</div> <div>852-1411</div> <div>↓</div> | <div>CAE data</div> <div>ZUKEN Portal</div> <div>852-1411</div> <div>↓</div> |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Cables and connectors

1.1.1.1 Connector plug

|                                                                                                                                                                                                                 |                                                                                                                                                                                                                    |                                                                                                                                                                                                                  |                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><b>Item No.: 750-979/000-011</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief</div> |  <div><b>Item No.: 750-979/000-021</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief</div>    |  <div><b>Item No.: 750-979/000-012</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief</div> |  <div><b>Item No.: 750-979/000-022</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief</div>    |
|  <div><b>Item No.: 750-977/000-011</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22</div>              |  <div><b>Item No.: 750-978/000-011</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief</div>  |  <div><b>Item No.: 750-977/000-021</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24</div>              |  <div><b>Item No.: 750-978/000-021</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief</div>  |
|  <div><b>Item No.: 750-977/000-012</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22</div>             |  <div><b>Item No.: 750-978/000-012</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief</div> |  <div><b>Item No.: 750-977/000-022</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24</div>             |  <div><b>Item No.: 750-978/000-022</b><br/>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief</div> |
|  <div><b>Item No.: 750-979/000-013</b><br/>Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief</div>           |  <div><b>Item No.: 750-977/000-013</b><br/>Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22</div>                           |  <div><b>Item No.: 750-978/000-013</b><br/>Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief</div>         |  <div><b>Item No.: 750-976</b><br/>PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly</div>             |

1.1.2 Interface module

1.1.2.1 Interface module

|                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><b>Item No.: 289-195</b><br/>Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection</div> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1.1.3 Power supply

1.1.3.1 Power Supply

|                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div><b>Item No.: 787-1635</b><br/>Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost; DC OK contact</div> |  <div><b>Item No.: 787-1633</b><br/>Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost; DC OK contact</div> |  <div><b>Item No.: 787-1226</b><br/>Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 6 A output current; DC-OK LED</div> |  <div><b>Item No.: 787-1722</b><br/>Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED</div> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

Current addresses can be found at: [www.wago.com](http://www.wago.com)