

Data sheet | Item number: 852-1411

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



[www.wago.com/852-1411](http://www.wago.com/852-1411)



### Item description

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.

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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



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

## Data

### Technical data

Number of 1 Gbit/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. Byte
Supply voltage	24 ... 57 VDC
Power consumption (max.)	13 W
Power consumption (note)	133 W with 4 PoE
Baud rate	Copper cable: 10/1000 Mbit/s
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5e or higher, 100 m maximum cable length
Topology	Star
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

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## 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 50 mm / 1.969 inch
Height	160 mm / 6.299 inches 160 mm / 6.299 inch
Depth	120 mm / 4.724 inches 120 mm / 4.724 inch

## Mechanical Data

Weight	520 g
Color	black
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	0.12 MJ 0.087 MJ

## Commercial data

eCl@ss 10.0	19-17-01-30
eCl@ss 9.0	19-17-01-06
ETIM 8.0	EC000734

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ETIM 7.0	EC000734
Recupel Type	
PU (SPU)	1 pcs 1 Stück
Packaging type	box
Country of origin	TW
GTIN	4055143727167
Customs tariff number	85176200000

## Environmental Product Compliance

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

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC RU C-DE.AM02.B.00087/19
	<b>KC</b> National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-ISW852
	<b>UL</b> Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

## Optional accessories

### Cables and pluggable connectors

Connector plug		
<b>Item no.: 750-976</b> PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly		<a href="http://www.wago.com/750-976">www.wago.com/750-976</a>
<b>Item no.: 750-978/000-012</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief		<a href="http://www.wago.com/750-978/000-012">www.wago.com/750-978/000-012</a>

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<b>Item no.: 750-979/000-012</b> Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief	<a href="http://www.wago.com/750-979/000-012">www.wago.com/750-979/000-012</a>
<b>Item no.: 750-978/000-021</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief	<a href="http://www.wago.com/750-978/000-021">www.wago.com/750-978/000-021</a>
<b>Item no.: 750-979/000-022</b> Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief	<a href="http://www.wago.com/750-979/000-022">www.wago.com/750-979/000-022</a>
<b>Item no.: 750-978/000-022</b> Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief	<a href="http://www.wago.com/750-978/000-022">www.wago.com/750-978/000-022</a>
<b>Item no.: 750-979/000-011</b> Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief	<a href="http://www.wago.com/750-979/000-011">www.wago.com/750-979/000-011</a>
<b>Item no.: 750-979/000-013</b> Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief	<a href="http://www.wago.com/750-979/000-013">www.wago.com/750-979/000-013</a>
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Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24

[www.wago.com/750-977](http://www.wago.com/750-977)

/000-021

**Power supplies**

Power supply unit

Item no.: 787-1722

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

[www.wago.com/787-1722](http://www.wago.com/787-1722)

Item no.: 787-1633

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

[www.wago.com/787-1633](http://www.wago.com/787-1633)

Item no.: 787-1635

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

[www.wago.com/787-1635](http://www.wago.com/787-1635)

Item no.: 787-1226

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

[www.wago.com/787-1226](http://www.wago.com/787-1226)**Interface module**

Interface module

Item no.: 289-195

Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection

[www.wago.com/289-195](http://www.wago.com/289-195)**Downloads****Documentation****Manual**

Product Manual Industrial ECO Switch; 5Port Gb; EXT; 4PoE	V 1.2.0	pdf	Download
Industrial Eco Switch, 5 Ports 1000BASE-T, extended Temperature Range, 4 * Power over Ethernet	2019 年12月17日	1.2 MB	

**Bid Text**

852-1411 X81 - Datei	2019 年2月19日	xml 6.2 kB	Download
852-1411 doc - Datei	2018 年7月23日	doc 30.2 kB	Download
ausschreiben.de 852-1411		URL	Download

**Instruction Leaflet**

Gebrauchs- und Montageanleitung 852-1411 Industrial-ETHERNET-Switch	V 1.0.0	pdf 738.6 kB	Download
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### Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
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### System Description

Industrial Switches – General Product Information		pdf 1.9 MB	Download
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### CAD/CAE-Data

#### CAE data

ZUKEN Portal 852-1411		URL	Download
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#### CAD data

2D/3D Models 852-1411		URL	Download
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### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 852-1411 Industrial-ECO-Switch; 5-port 1000Base-T; Extended temperature range; 4 * Power over Ethernet		URL	Download
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### Installation Notes

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