

# FL SWITCH 1001T-4POE-GT-SFP - Industrial Ethernet Switch



1026932

<https://www.phoenixcontact.com/us/products/1026932>

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Unmanaged PoE Switch 1000 series, 1 RJ45 port 10/100/1000 Mbps, 1 SFP port 1000 Mbps, 4 RJ45 PoE ports 10/100/1000 Mbps, degree of protection: IP30, Ambient temperature (operation): -40 °C ... 75 °C, Supply voltage range: 18 V DC ... 57 V DC, Extended temperature range

## Your advantages

- POE status LED per port
- Redundant power supply
- Wide temperature range -40 °C ... +75 °C
- Autocrossing
- Auto negotiation
- Wide-range power supply of 18 ... 57 V DC
- Automatic detection of IEEE 802.3at or 802.3af powered devices

## Commercial data

Item number	1026932
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN18
Product key	DNN115
GTIN	4055626520346
Weight per piece (including packing)	657.9 g
Weight per piece (excluding packing)	492 g
Customs tariff number	85176200
Country of origin	TW

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## Technical data

### Dimensions

Width	30 mm
Height	149 mm
Depth	107.8 mm

### Notes

Notes on operation	Mode A PoE
Note on application	
Note on application	Only for industrial use
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area

### Material specifications

Color (Housing)	white aluminium (RAL 9006)
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### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Ethernet

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Ethernet RJ45
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, POE
No. of channels	1 (RJ45 port)

#### Fiber optic interface

Number of interfaces	1
Connection method	SFP
Transmission speed	1000 Mbps (full duplex)
Transmission physics	Depending on the SFP module
Transmission length	up to 80 km (Depending on the fiber/SFP module used)
No. of channels	1 (SFP port)

#### Ethernet (PoE)

Connection method	RJ45
Transmission speed	10/100/1000 Mbps
Transmission physics	Ethernet RJ45

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Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, POE
No. of channels	4 (RJ45 PoE ports)

## Product properties

Product type	Switch
Product family	Unmanaged PoE Switch 1000
Type	Stand-alone
MTTF	66.6 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
Special properties	Extended temperature range

## Switch functions

Basic functions	Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, redundant power supply, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 10240 bytes, alarm contact
Signal contact control voltage	48 V DC
Signal contact control current	0.5 A
Status and diagnostic indicators	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), Alarm (alarm contact), Link/Activity and PoE per Ethernet port
Additional functions	Autonegotiation

## Security functions

Basic functions	Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, redundant power supply, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 10240 bytes, alarm contact
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## Electrical properties

Local diagnostics	US1, US2 Supply voltage Green LED
	PoE PoE detection Orange LED
	LNK/ACT Link status/data transmission Green LED
	Alarm Power failure at US1 or US2/Link failure
Maximum power dissipation for nominal condition	127 W (at 48 V DC)

## Supply

Supply voltage (DC)	24 V DC
	48 V DC
Supply voltage range	18 V DC ... 57 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup>
Inrush current	33.8 A (24 V DC for 3540 µs)
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Max. current consumption	6.93 A (Maximum, nominal load)
Typical current consumption	214 mA (at U <sub>S</sub> = 24 V DC)

## Function

Signal contact control voltage	48 V DC
Signal contact control current	0.5 A

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## Connection data

### Power supply

Connection method	Screw connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12
Stripping length	7 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP30
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	57 kPa ... 108 kPa (up to 4850 m above mean sea level)
Air pressure (storage/transport)	57 kPa ... 108 kPa (up to 4850 m above mean sea level)

## Approvals

### Conformity/Approvals

Conformance	CE-compliant
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-4-4 (burst) Criterion A
	IEC 61000-4-5 (surge) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
	IEC 61000-4-8 (immunity to magnetic fields) Criterion A
	EN 55032 (emitted interference) Criterion A
Noise immunity	EN 61000-6-2:2019

### Noise emission

Standards/regulations	EN_61000-6-4:2019
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## System properties

### Functionality

Basic functions	Store-and-forward switch, 10/100/1000 Mbps, auto negotiation, redundant power supply, PoE according to IEEE 802.3at/802.3af, jumbo frames up to 10240 bytes, alarm contact
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## Signaling

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Status display

LEDs:  $U_{S1}$ ,  $U_{S2}$  (redundant voltage supply), Alarm (alarm contact), Link/Activity and PoE per Ethernet port

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## Classifications

### ECLASS

ECLASS-13.0	19170402
ECLASS-15.0	19170402

### ETIM

ETIM 10.0	EC000734
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### UNSPSC

UNSPSC 21.0	43222600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	15(a), 6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-10
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	4b83e7bb-e3a7-4c54-8696-10bde8f27313

### EF3.1 Climate Change

CO2e kg	16.662 kg CO2e
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