

# FL SWITCH 1000T-2POE-GT-2SFP - Industrial Ethernet Switch



1026765

<https://www.phoenixcontact.com/gb/products/1026765>

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Unmanaged PoE Switches 1000, 2 SFP ports 100/1000 Mbps, 2 RJ45 ports 10/100/1000 Mbps

## Your advantages

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

## Commercial data

Item number	1026765
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNN115
Product key	DNN115
Catalog page	Page 302 (C-6-2019)
GTIN	4055626519463
Weight per piece (including packing)	569.3 g
Weight per piece (excluding packing)	569.3 g
Customs tariff number	85176200
Country of origin	TW

# FL SWITCH 1000T-2POE-GT-2SFP - Industrial Ethernet Switch



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## Technical data

### Dimensions

Width	42.8 mm
Height	100 mm
Depth	101 mm

### Notes

General	Designed to function with all 48 V DC QUINT and TRIO power supplies.
General	Mode A PoE

### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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### Mounting

Mounting type	DIN rail mounting
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### Interfaces

#### Fiber optic interface

Connection method	SFP
Transmission speed	100/1000 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	2 (SFP ports)

#### Ethernet (PoE)

Number of interfaces	2
Connection method	RJ45
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	2 (RJ45 ports)

### Product properties

Type	Stand-Alone
Product type	Switch
Product family	Unmanaged PoE Switches 1000
MTTF	45.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

### Switch functions

# FL SWITCH 1000T-2POE-GT-2SFP - Industrial Ethernet Switch



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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/orange LED
	Alarm Power failure at US1 or US2/Link failure

## Supply

Supply voltage (DC)	55 V DC (redundant)
Supply voltage range	52 V DC ... 57 V DC (>52 V DC for PoE+ recommended)
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm <sup>2</sup>
Inrush current	25.7 A (52 V DC for 1950 µs)
Residual ripple	3.6 V <sub>pp</sub> (within the permitted voltage range)
Max. current consumption	1.2 A (Maximum, nominal load)
Typical current consumption	80 mA (at U <sub>S</sub> = 55 V DC)

## Function

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

## Connection data

### Connection technology

Connection name	Power supply
pluggable	yes

### 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

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## 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)

## Standards and regulations

Standards/specifications	EN 50121 for railway applications
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## Approvals

### Conformity/Approvals

Conformance	CE-compliant
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## EMC data

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
Electromagnetic compatibility	EN 55022 (emitted interference) Criterion A
	Conformance with EMC Directive 2004/108/EC

## 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

Status display	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), Alarm (alarm contact), Link/Activity and PoE per Ethernet port
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1026765>



**EAC**

Approval ID: RU\*-DE.\*.B.00741/19



**UL Listed**

Approval ID: FILE E 238705



**cUL Listed**

Approval ID: FILE E 238705

**cULus Listed**

# FL SWITCH 1000T-2POE-GT-2SFP - Industrial Ethernet Switch



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## Classifications

### ECLASS

ECLASS-11.0	19170402
ECLASS-12.0	19170402
ECLASS-13.0	19170402

### ETIM

ETIM 8.0	EC000734
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### UNSPSC

UNSPSC 21.0	43222600
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10; For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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## Accessories

### MSTB 2,5/ 8-ST - PCB connector

1754562

<https://www.phoenixcontact.com/gb/products/1754562>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 8, number of rows: 1, number of positions: 8, number of connections: 8, product range: MSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

### QUINT4-PS/1AC/48DC/5 - Power supply unit

2904610

<https://www.phoenixcontact.com/gb/products/2904610>



Primary-switched QUINT POWER power supply for DIN rail mounting with free choice of output characteristic curve and SFB (Selective Fuse Breaking) technology, input: 1-phase, output: 48 V DC / 5 A



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## QUINT4-PS/1AC/48DC/10 - Power supply unit

2904611

<https://www.phoenixcontact.com/gb/products/2904611>



Primary-switched QUINT POWER power supply for DIN rail mounting with free choice of output characteristic curve and SFB (Selective Fuse Breaking) technology, input: 1-phase, output: 48 V DC / 10 A

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## TRIO-PS-2G/1AC/48DC/5 - Power supply unit

2903159

<https://www.phoenixcontact.com/gb/products/2903159>



Primary-switched TRIO power supply for DIN rail mounting, input: 1-phase, output: 48 V DC / 5 A, dynamic boost, tool-free fast connection technology for solid and stranded conductors with ferrule

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<https://www.phoenixcontact.com/gb/products/1026765>

## TRIO-PS-2G/1AC/48DC/10 - Power supply unit

2903160

<https://www.phoenixcontact.com/gb/products/2903160>



Primary-switched TRIO POWER power supply with push-in connection for DIN rail mounting, input: single phase, output: 48 V DC/10 A

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## FL PD 1001 T GT - Ethernet module

2891042

<https://www.phoenixcontact.com/gb/products/2891042>



Factoryline Power over Ethernet splitter (PD) for separating power and data according to IEEE 802.3af and at, no configuration required, can be used with 10, 100, 1000 Mbps networks, 24 V DC output voltage

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## DT-LAN-CAT.6+ - Surge protection device

2881007

<https://www.phoenixcontact.com/gb/products/2881007>



Surge protection in accordance with Class E<sub>A</sub> (CAT6<sub>A</sub>), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE++ / 4PPoE) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

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## FL SEC PAC 4TX - Port Guard Security Element

2832865

<https://www.phoenixcontact.com/gb/products/2832865>

Layer1 security elements for 4 RJ45 network connections for use with patch boxes and panels



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## FL DIN RA - DIN rail adapter

2891053

<https://www.phoenixcontact.com/gb/products/2891053>

The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.



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## FL RJ45 PROTECT CAP - Dust protection

2832991

<https://www.phoenixcontact.com/gb/products/2832991>

Dust protection caps for RJ45 socket



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## E/NS 35 N - End clamp

0800886

<https://www.phoenixcontact.com/gb/products/0800886>

End clamp, width: 9.5 mm, color: gray



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## FL SFP FX - Media module

2891081

<https://www.phoenixcontact.com/gb/products/2891081>

The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).



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## FL SFP FX SM - Media module

2891082

<https://www.phoenixcontact.com/gb/products/2891082>



The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).

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## FL SFP SX - Media module

2891754

<https://www.phoenixcontact.com/gb/products/2891754>



Gigabit SFP module for transmission up to 1 km with a wavelength of 850 nm.

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## FL SFP SX2 - Media module

2702397

<https://www.phoenixcontact.com/gb/products/2702397>



Gigabit SFP module for transmission up to 2 km with a wavelength of 1310 nm.

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## FL SFP LX10-B - Media module

1025401

<https://www.phoenixcontact.com/gb/products/1025401>



Gigabit SFP module for transmission up to 10 km with a wavelength of 1310 nm.

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## FL SFP LX - Media module

2891767

<https://www.phoenixcontact.com/gb/products/2891767>



Gigabit SFP module for transmission up to 30 km with a wavelength of 1310 nm.

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## FL SFP LH - Media module

2989912

<https://www.phoenixcontact.com/gb/products/2989912>



Gigabit SFP module for transmission up to 80 km with a wavelength of 1,550 nm.



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## FL SFP WDM10-SET - Media module

2702442

<https://www.phoenixcontact.com/gb/products/2702442>



Gigabit SFP WDM set for transmission up to a maximum of 10 km on a single fiber with a wavelength of 1310/1550 nm.

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## FL SFP FE WDM20-SET - Media module

2702439

<https://www.phoenixcontact.com/gb/products/2702439>



Fast Ethernet SFP WDM set for transmission up to a maximum of 20 km on a single fiber with a wavelength of 1310/1550 nm.

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## FL SFP GT - Media module

2989420

<https://www.phoenixcontact.com/gb/products/2989420>



Gigabit SFP module for transmission up to 100 m.

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## FL CAT5 PATCH 0,5 - Patch cable

2832263

<https://www.phoenixcontact.com/gb/products/2832263>



Patch cable, CAT5, assembled, 0.5 m

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## FL CAT5 PATCH 1,0 - Patch cable

2832276

<https://www.phoenixcontact.com/gb/products/2832276>



Patch cable, CAT5, assembled, 1 m

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## FL CAT5 PATCH 2,0 - Patch cable

2832289

<https://www.phoenixcontact.com/gb/products/2832289>



Patch cable, CAT5, assembled, 2 m

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## NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

<https://www.phoenixcontact.com/gb/products/1411854>



Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, cable outlet: straight, Ethernet

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## NBC-R4AC/10G-R4AC/10G-94F/2,0 - Patch cable

1408360

<https://www.phoenixcontact.com/gb/products/1408360>



Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

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## NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365

<https://www.phoenixcontact.com/gb/products/1408365>



Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

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## NBC-R4AC/1,0-93B/R4AC - Patch cable

1408968

<https://www.phoenixcontact.com/gb/products/1408968>



Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

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## NBC-R4AC/2,0-93B/R4AC - Patch cable

1408969

<https://www.phoenixcontact.com/gb/products/1408969>



Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

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## NBC-R4AC/5,0-93B/R4AC - Patch cable

1408970

<https://www.phoenixcontact.com/gb/products/1408970>



Patch cable, degree of protection: IP20, cable length: 5 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

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## FOC-LC:PA-SC:PA-OM2:D01/1 - FO patch cable

1115607

<https://www.phoenixcontact.com/gb/products/1115607>

Multi-mode OM2 duplex jumper, LC-SC, UPC polishing, length 1 m



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## FOC-LC:PA-SC:PA-OM2:D01/2 - FO patch cable

1115605

<https://www.phoenixcontact.com/gb/products/1115605>

Multi-mode OM2 duplex jumper, LC-SC, UPC polishing, length 2 m



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## FOC-LC:PA-LC:PA-OM2:D01/1 - FO patch cable

1115633

<https://www.phoenixcontact.com/gb/products/1115633>

Multi-mode OM2 duplex jumper, LC-LC, UPC polishing, length 1 m



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## FOC-LC:PA-LC:PA-OM2:D01/2 - FO patch cable

1115634

<https://www.phoenixcontact.com/gb/products/1115634>

Multi-mode OM2 duplex jumper, LC-LC, UPC polishing, length 2 m





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## FOC-LC:PA-ST:PA-OM2:D01/1 - Fiber optic cable

1115588

<https://www.phoenixcontact.com/gb/products/1115588>

Multi-mode OM2 duplex jumper, LC-ST, UPC polishing, length 1 m



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## FOC-LC:PA-ST:PA-OM2:D01/2 - Fiber optic cable

1115587

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Multi-mode OM2 duplex jumper, LC-ST, UPC polishing, length 2 m



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## FOC-LC:PA-SC:PA-OM4:D01/1 - FO patch cable

1115601

<https://www.phoenixcontact.com/gb/products/1115601>

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 1 m



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## FOC-LC:PA-SC:PA-OM4:D01/2 - FO patch cable

1115600

<https://www.phoenixcontact.com/gb/products/1115600>

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 2 m



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## FOC-LC:PA-LC:PA-OM4:D01/1 - FO patch cable

1115625

<https://www.phoenixcontact.com/gb/products/1115625>

Multi-mode OM4 duplex jumper, LC-LC, UPC polishing, length 1 m



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## FOC-LC:PA-LC:PA-OM4:D01/2 - FO patch cable

1115624

<https://www.phoenixcontact.com/gb/products/1115624>

Multi-mode OM4 duplex jumper, LC-LC, UPC polishing, length 2 m



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## FOC-LC:PA-LC:PA-OS2:D01/1 - FO patch cable

1115636

<https://www.phoenixcontact.com/gb/products/1115636>

Single-mode OS2 duplex jumper, LC-LC, UPC polishing, length 1 m



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## FOC-LC:PA-LC:PA-OS2:D01/2 - FO patch cable

1115629

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Single-mode OS2 duplex jumper, LC-LC, UPC polishing, length 2 m



# FL SWITCH 1000T-2POE-GT-2SFP - Industrial Ethernet Switch



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## FOC-LC:PA-ST:PA-OS2:D01/1 - FO patch cable

1115596

<https://www.phoenixcontact.com/gb/products/1115596>

Single-mode OS2 duplex jumper, LC-ST, UPC polishing, length 1 m



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## FOC-LC:PA-ST:PA-OS2:D01/2 - FO patch cable

1115595

<https://www.phoenixcontact.com/gb/products/1115595>

Single-mode OS2 duplex jumper, LC-ST, UPC polishing, length 2 m



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## FOC-LC:PA-SC:PA-OS2:D01/1 - FO patch cable

1115618

<https://www.phoenixcontact.com/gb/products/1115618>

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 1 m



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## FOC-LC:PA-SC:PA-OS2:D01/2 - FO patch cable

1115617

<https://www.phoenixcontact.com/gb/products/1115617>

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 2 m



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