

# FL SWITCH 1100T-8POE-2SFP - Industrial Ethernet Switch



1467018

<https://www.phoenixcontact.com/us/products/1467018>

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PoE+ Ethernet switch conforms to IEEE 802.3af/at, includes eight PoE RJ45 ports with 10/100/1000 Mbps on all ports, 2 SFP ports, automatic data transmission speed detection, autocrossing function, and QoS with a 120 W power budget

## Your advantages

- RJ45 ports support a transmission speed of 10/100/1000 Mbps
- QoS-prioritized (Quality of Service) messages
- Local diagnostic indicators with LEDs
- PROFINET PTCP filter for reliable communication on PROFINET networks
- Enhanced traffic prioritization for automation protocols
- Energy-efficient Ethernet in accord. with IEEE 802.3az
- PROFINET Conformance Class A for real-time data exchange
- Auto negotiation and autocrossing detection simplifies installation and setup
- Automatic detection of IEEE 802.3at or 802.3af powered devices
- POE status LED per port
- Jumbo frame support (frame size up to 9216 bytes/frame)

## Commercial data

Item number	1467018
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN18
Product key	DNN115
GTIN	4063151862657
Weight per piece (including packing)	851 g
Weight per piece (excluding packing)	766 g
Customs tariff number	85176200
Country of origin	TW

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## Technical data

### Dimensions

Width	65 mm
Height	141 mm
Depth	107 mm

### Notes

Notes on operation	Mode A PoE
Note on application	
Note on application	Only for industrial use

### Material specifications

Housing material	Polycarbonate fiber reinforced
	Aluminum / steel sheet DC01

### 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 (full duplex)
Transmission physics	Depending on the SFP module
Transmission length	up to 40 km (Depending on the fiber/SFP module used)
Signal LEDs	Data receive, link status, PoE
No. of channels	2 (SFP ports)
Input buffer	1.5 Mbits
Output buffer	1.5 Mbits

#### Ethernet (PoE)

Connection method	RJ45
Transmission speed	10/100/1000 Mbps
Transmission physics	Ethernet RJ45
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LINK/ACT, POE
No. of channels	8 (RJ45 PoE ports)

### Product properties

Product type	Switch
Product family	Unmanaged PoE Switch 1000
Type	Stand-alone

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MTTF	30.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) 460.9 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) 451.8 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
Special properties	Extended temperature range
Basic functions	PSE, complies with IEEE 802.3af/at Autonegotiation Store and Forward switching mode

Switch functions	
Basic functions	PSE, complies with IEEE 802.3af/at Autonegotiation Store and Forward switching mode
MAC address table	4k
Status and diagnostic indicators	LEDs: U <sub>S</sub> , link and activity per port
Additional functions	100 BASE-TX (IEEE 802.3u) Quality of Service (QoS) prioritization (IEEE 802.1p) Energy-efficient Ethernet (IEEE 802.3az) 10Base-T (IEEE 802.3) Gigabit Ethernet 1000BASE-T (IEEE 802.3ab)

Security functions	
Basic functions	PSE, complies with IEEE 802.3af/at Autonegotiation Store and Forward switching mode

## Electrical properties

Transmission medium	Copper
Supply	
Supply voltage (DC)	24 V DC
Supply voltage range	20 V DC ... 57 V DC
Power supply connection	Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup>
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Max. current consumption	7.1 A (at 20 V DC)
Typical current consumption	157 mA (at 24 V DC)

## Connection data

Connection technology	
Connection name	Power supply
pluggable	yes
Power supply	
Connection method	Push-in spring connection

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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
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Stripping length	10 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP30
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	2000 m (maximum)
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Shock (operation)	30g (EN 60068-2-27)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	79 kPa ... 108 kPa up to 2000 m above mean sea level (Without derating)
Air pressure (storage/transport)	79 kPa ... 108 kPa up to 2000 m above mean sea level (Without derating)

## 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
Noise immunity	EN 55032 (emitted interference) Criterion A

### Noise emission

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

### Functionality

PSE, complies with IEEE 802.3af/at
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Basic functions

Autonegotiation

Store and Forward switching mode

## Signaling

Status display

LEDs:  $U_S$ , link and activity per port

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1467018>



**cULus Listed**

Approval ID: E238705

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## Classifications

### ECLASS

ECLASS-13.0	19170402
ECLASS-15.0	19170402

### ETIM

ETIM 9.0	EC000734
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### UNSPSC

UNSPSC 21.0	43222600
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## Accessories

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

2904610

<https://www.phoenixcontact.com/us/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

2904611

<https://www.phoenixcontact.com/us/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

2903159

<https://www.phoenixcontact.com/us/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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TRIO-PS-2G/1AC/48DC/10 - Power supply

2903160

<https://www.phoenixcontact.com/us/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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UNO-PS/1AC/24DC/150W - Power supply

2904376

<https://www.phoenixcontact.com/us/products/2904376>

Primary-switched UNO power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/150 W



UNO-PS/1AC/24DC/240W - Power supply

2904372

<https://www.phoenixcontact.com/us/products/2904372>

Please use the following item in new systems: 1096432.

Primary-switched UNO power supply for DIN rail mounting, input: 1-phase, output: 24 V DC / 240 W



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1467018

<https://www.phoenixcontact.com/us/products/1467018>

UNO2-PS/1AC/48DC/240W - Power supply

1110155

<https://www.phoenixcontact.com/us/products/1110155>



Primary-switched power supply unit, UNO POWER, Screw connection, DIN rail mounting, input: 1-phase, output: 48 V DC / 5 A, adjustable from 42 V DC ... 56 V DC

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MVSTBW 2,5/ 3-ST-5,08 GY - PCB connector

1783685

<https://www.phoenixcontact.com/us/products/1783685>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: gray, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MVSTBW 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting method: without, type of packaging: packed in cardboard

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## FKCT 2,5/ 3-ST KMGY - PCB connector

1998263

<https://www.phoenixcontact.com/us/products/1998263>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: light gray, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: FKCT 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting method: without, type of packaging: packed in cardboard

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

2881007

<https://www.phoenixcontact.com/us/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, DS1. Suitable for Power over Ethernet (PoE++/4PPoE) "Mode A" and "Mode B". RJ45 intermediate plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails. Products with similar requirements: DT-LAN-CAT.6A (2908726) und D-LAN-CAT.5-HC (2800763).

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## FL CAT5 PATCH 0,5 - Patch cable

2832263

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

Patch cable, CAT5, assembled, 0.5 m



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## FL CAT5 PATCH 1,0 - Patch cable

2832276

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Patch cable, CAT5, assembled, 1 m



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## FL CAT5 PATCH 2,0 - Patch cable

2832289

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

Patch cable, CAT5, assembled, 2 m



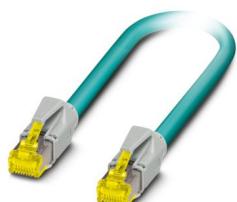
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## NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

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



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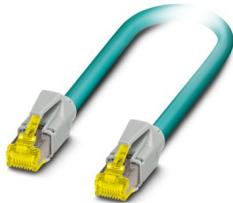
<https://www.phoenixcontact.com/us/products/1467018>

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

1408360

<https://www.phoenixcontact.com/us/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

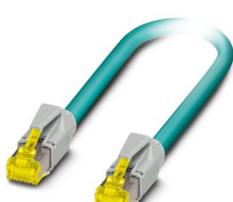


## NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365

<https://www.phoenixcontact.com/us/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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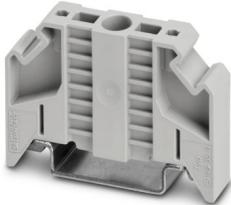
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## E/NS 35 N - End bracket

0800886

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

End clamp, width: 9.5 mm, color: gray



## FL RJ45 PROTECT CAP - Dust protection

2832991

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

Dust protection caps for RJ45 socket



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