

# FL SWITCH 1000-8POE - Industrial Ethernet Switch



1342622

<https://www.phoenixcontact.com/us/products/1342622>

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PoE++ Ethernet switch conforms to IEEE 802.3af/at/bt, includes eight PoE RJ45 ports with 10/100 Mbps on all ports, automatic data transmission speed detection, autocrossing function, and QoS. 90 W per port with a 240 W power budget

## Your advantages

- RJ45 ports support a transmission speed of 10/100 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, 802.3af, or 802.3bt powered devices
- POE status LED per port

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1342622       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN18          |
| Product key                          | DNN115        |
| GTIN                                 | 4063151652494 |
| Weight per piece (including packing) | 858 g         |
| Weight per piece (excluding packing) | 736 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 |
|---------------|-------------------|

### Interfaces

#### Ethernet (RJ45)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Number of interfaces          | 8                                 |
| Connection method             | RJ45                              |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission speed            | 10/100 Mbps (full duplex)         |
| Transmission physics          | Ethernet in RJ45 twisted pair     |
| Transmission length           | 100 m (per segment)               |
| Signal LEDs                   | Data receive, link status, PoE    |
| No. of channels               | 8 (RJ45 ports)                    |
| Input buffer                  | 1.5 Mbits                         |
| Output buffer                 | 1.5 Mbits                         |

#### Ethernet (PoE)

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

### Product properties

|                |                           |
|----------------|---------------------------|
| Product type   | Switch                    |
| Product family | Unmanaged PoE Switch 1000 |

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|                 |                                                                                                        |
|-----------------|--------------------------------------------------------------------------------------------------------|
| Type            | Stand-alone                                                                                            |
| MTTF            | 44.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)                            |
|                 | 454.1 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)                                 |
|                 | 432.2 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| Basic functions | PSE, complies with IEEE 802.3af/at/bt                                                                  |
|                 | Autonegotiation                                                                                        |
|                 | Store and Forward switching mode                                                                       |

## Switch functions

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| Basic functions                  | PSE, complies with IEEE 802.3af/at/bt                 |
|                                  | 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)                                 |

## Security functions

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

## Electrical properties

|                                                 |                   |
|-------------------------------------------------|-------------------|
| Maximum power dissipation for nominal condition | 270 W (at 55V DC) |
| Transmission medium                             | Copper            |

## Supply

|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
| Supply voltage (DC)         | 48 V DC                                                        |
| Supply voltage range        | 46 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> |
| Residual ripple             | 3.6 V <sub>PP</sub> (within the permitted voltage range)       |
| Max. current consumption    | 5.5 A (at 46 V DC)                                             |
| Typical current consumption | 58 mA (at 55 V DC, no load)                                    |

## Connection data

### Connection technology

|                 |              |
|-----------------|--------------|
| Connection name | Power supply |
| pluggable       | yes          |

### Power supply

|                   |                           |
|-------------------|---------------------------|
| Connection method | Push-in spring connection |
|-------------------|---------------------------|

|                                                                       |                      |
|-----------------------------------------------------------------------|----------------------|
| Conductor cross-section, rigid                                        | 0.2 mm² ... 2.5 mm²  |
| Conductor cross-section, flexible                                     | 0.2 mm² ... 2.5 mm²  |
| Conductor cross-section AWG                                           | 24 ... 12            |
| Conductor cross-section, flexible, with ferrule, with plastic sleeve  | 0.25 mm² ... 2.5 mm² |
| Conductor cross-section flexible, with ferrule without plastic sleeve | 0.25 mm² ... 2.5 mm² |
| Stripping length                                                      | 10 mm                |

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                                                         |
|------------------------------------------|-------------------------------------------------------------------------|
| Degree of protection                     | IP30                                                                    |
| Ambient temperature (operation)          | -10 °C ... 60 °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 |
|-------------|--------------|

## EMC data

|                                 |                                                                |
|---------------------------------|----------------------------------------------------------------|
| Electromagnetic compatibility   | Conformance with EMC Directive 2014/30/EU                      |
| Conformance with EMC directives | EN 61000-6-2 EN 61000-4-2 (ESD) Criterion B                    |
|                                 | EN 61000-6-2 EN 61000-4-3 (electromagnetic fields) Criterion A |
|                                 | EN 61000-6-2 EN 61000-4-4 (EFT burst) Criterion A              |
|                                 | EN 61000-6-2 EN 61000-4-5 (surge) Criterion B                  |
|                                 | EN 61000-6-2 EN 61000-4-6 (line noise immunity) Criterion A    |
|                                 | EN 61000-6-2 EN 61000-4-8 (electromagnetic fields) Criterion A |
| Noise immunity                  | EN 61000-6-2 Class A                                           |
|                                 | EN 61000-6-2:2019                                              |

### Noise emission

|                       |                   |
|-----------------------|-------------------|
| Standards/regulations | EN_61000-6-4:2019 |
|-----------------------|-------------------|

## System properties

### Functionality

|  |                                       |
|--|---------------------------------------|
|  | PSE, complies with IEEE 802.3af/at/bt |
|--|---------------------------------------|

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|                 |                                  |
|-----------------|----------------------------------|
| Basic functions | Autonegotiation                  |
|                 | Store and Forward switching mode |

## Signaling

|                |                                                   |
|----------------|---------------------------------------------------|
| Status display | LEDs: U <sub>S</sub> , link and activity per port |
|----------------|---------------------------------------------------|

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1342622>



**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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## 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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<https://www.phoenixcontact.com/us/products/1342622>

## 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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## 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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## FL PD 1001 T GT - Ethernet module

2891042

<https://www.phoenixcontact.com/us/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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<https://www.phoenixcontact.com/us/products/1342622>

## 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, 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 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

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



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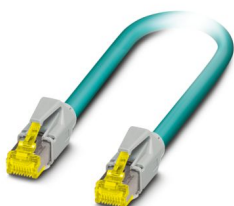
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## NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

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



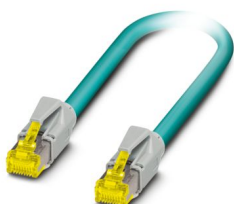
Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, cable outlet: straight, Ethernet

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

1408360

<https://www.phoenixcontact.com/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

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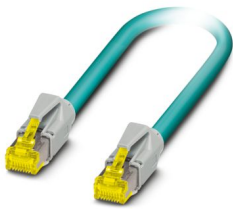
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<https://www.phoenixcontact.com/us/products/1342622>

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

1408365

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



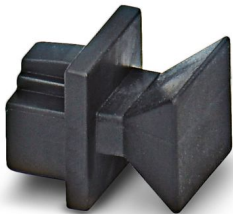
Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

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## FL RJ45 PROTECT CAP - Dust protection

2832991

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



Dust protection caps for RJ45 socket

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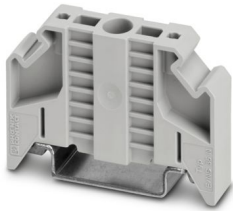
<https://www.phoenixcontact.com/us/products/1342622>

## E/NS 35 N - End bracket

0800886

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

End clamp, width: 9.5 mm, color: gray



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