

# FL SWITCH 1104N-SFP - Industrial Ethernet Switch



1085173

<https://www.phoenixcontact.com/us/products/1085173>

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Narrow Ethernet switch, four RJ45 ports, one SFP port, with 10/100/1000 Mbps on all ports, automatic data transmission speed detection, autocrossing function, and QoS

## Your advantages

- Jumbo frame support (frame size up to 9216 bytes/frame)
- 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, alarms, and diagnostics
- Auto negotiation and autocrossing detection simplifies installation and setup

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1085173       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN20          |
| Product key                          | DNN116        |
| GTIN                                 | 4055626834665 |
| Weight per piece (including packing) | 219.4 g       |
| Weight per piece (excluding packing) | 136 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | TW            |

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## Technical data

### Dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 117 mm  |
| Depth  | 84 mm   |

### Notes

#### 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

|                  |                                |
|------------------|--------------------------------|
| Housing material | Polycarbonate fiber reinforced |
|------------------|--------------------------------|

### Mounting

|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

### Interfaces

#### Ethernet (RJ45)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Number of interfaces          | 4                                 |
| Connection method             | RJ45                              |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission speed            | 10/100/1000 Mbps                  |
| Transmission physics          | Ethernet in RJ45 twisted pair     |
| Transmission length           | 100 m (per segment)               |
| Signal LEDs                   | Data receive, link status         |
| No. of channels               | 4 (RJ45 ports)                    |
| Input buffer                  | 1.5 Mbits                         |
| Output buffer                 | 1.5 Mbits                         |

#### Ethernet (SFP)

|                      |  |
|----------------------|--|
| Number of interfaces | 1  |
| Connection method    | SFP  |
| Transmission speed   | 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                            |
| No. of channels      | 1 (SFP port)   |

### Product properties

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|                |  |
|----------------|--|
| Product type   | Switch   |
| Product family | Unmanaged Switch 1000  |
| MTTF           | 77.4 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)                            |
|                | 949.7 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)                                 |
|                | 828.9 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |

## Switch functions

|                                  |   |
|----------------------------------|---|
| Basic functions                  | Unmanaged switch                                      |
|                                  | Autonegotiation                                       |
|                                  | Store and Forward switching mode                      |
| PROFINET conformance class       | Conformance Class A                                   |
| MAC address table                | 4k  |
| Status and diagnostic indicators | LEDs: U <sub>S</sub> , link and activity per port     |
| Additional functions             | 100 BASE-TX/100BASE-FX (IEEE 802.3u)                  |
|                                  | Jumbo frames (Max. 9,216 bytes)                       |
|                                  | Quality of Service (QoS) prioritization (IEEE 802.1p) |
|                                  | Energy-efficient Ethernet (IEEE 802.3az)              |
|                                  | Gigabit Ethernet 1000BASE-T (IEEE 802.3ab)            |
|                                  | 10Base-T (IEEE 802.3)                                 |

## Security functions

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

## Electrical properties

|   |                      |
|---|----------------------|
| Maximum power dissipation for nominal condition | 3.762 W (at 24 V DC) |
| Transmission medium                             | Copper               |

## Supply

|                             |  |
|-----------------------------|--|
| Supply voltage (DC)         | 24 V DC  |
| Supply voltage (AC)         | 24 V AC (50/60 Hz)   |
| Supply voltage range        | 9 V DC ... 32 V DC   |
|                             | 18 V AC ... 30 V AC (50/60 Hz)                                 |
| 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    | 418 mA (at 9 V DC)   |
| Typical current consumption | 48 mA (at 24 V DC)   |

## Connection data

### Power supply

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

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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> |
|   | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, with ferrule, with 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)          | -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

|                  |  |
|------------------|--|
| UL, USA / Canada | UL 61010-1, UL 61010-2-201, UL 62368-1<br>Class I, Div. 2, Groups A, B, C, D, T4<br>Class I, Zone 2, Group IIC, T4 |
| FCC              | Title 47 Part 15 Subpart B:2018 Class A  |
| FCC certificate  | T190905D11-C   |

## EMC data

|                       |                   |
|-----------------------|-------------------|
| Noise immunity        | EN 61000-6-2:2019 |
| Noise emission        |                   |
| Standards/regulations | EN_61000-6-4:2019 |

## System properties

### Functionality

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

## Signaling

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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/1085173>



**KC**

Approval ID: R-R-PCK-1085173



**cULus Listed**

Approval ID: E238705



**cULus Listed**

Approval ID: E140403



**cUL Listed**

Approval ID: E196811



**UL Listed**

Approval ID: E196811

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 19170402 |
| ECLASS-15.0 | 19170402 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000734 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43222600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

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

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | 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                                | 4180edc0-62a9-4704-8396-6a75f05f5d53 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 4.606 kg CO2e |
|---------|---------------|

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