

FL SWITCH 1008NT - Industrial Ethernet Switch



1085165

<https://www.phoenixcontact.com/au/products/1085165>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Narrow Ethernet switch, wide temperature range, eight RJ45 ports with 10/100 Mbps on all ports, automatic data transmission speed detection, autocrossing function, and QoS

Your advantages

- Auto negotiation and autocrossing detection simplifies installation and setup
- Local diagnostic indicators with LEDs
- RJ45 ports support a transmission speed of 10/100 Mbps
- QoS-prioritized (Quality of Service) messages
- PROFINET Conformance Class A for real-time data exchange
- Energy-efficient Ethernet in accord. with IEEE 802.3az
- PROFINET PTCP filter for reliable communication on PROFINET networks
- Enhanced traffic prioritization for automation protocols

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1085165 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DNN116 |
| Product key | DNN116 |
| GTIN | 4055626834900 |
| Weight per piece (including packing) | 353.5 g |
| Weight per piece (excluding packing) | 264 g |
| Customs tariff number | 85176200 |
| Country of origin | TW |

FL SWITCH 1008NT - Industrial Ethernet Switch



1085165

<https://www.phoenixcontact.com/au/products/1085165>

Technical data

Dimensions

| | |
|--------|----------|
| Width | 22.5 mm |
| Height | 140.4 mm |
| Depth | 92.4 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 |
| | 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 |
| Transmission physics | Ethernet in RJ45 twisted pair |
| Transmission length | 100 m (per segment) |
| Signal LEDs | Data receive, link status |
| No. of channels | 8 (RJ45 ports) |

Product properties

| | |
|--------------------|---|
| Product type | Switch |
| Product family | Unmanaged Switch 1000 |
| MTTF | 133.6 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |
| | 1254 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) |
| | 1203.8 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| Special properties | Extended temperature range |

Switch functions

FL SWITCH 1008NT - Industrial Ethernet Switch



1085165

<https://www.phoenixcontact.com/au/products/1085165>

| | |
|----------------------------------|---|
| Basic functions | Unmanaged switch |
| | Autonegotiation |
| | Store and Forward switching mode |
| PROFINET conformance class | Conformance-Class A |
| MAC address table | 2k |
| Status and diagnostic indicators | LEDs: U _S , link and activity per port |
| Additional functions | 100 BASE-TX/100BASE-FX (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 | Unmanaged switch |
| | Autonegotiation |
| | Store and Forward switching mode |

Electrical properties

| | |
|---|------------|
| Maximum power dissipation for nominal condition | 1.53 W () |
| Transmission medium | Copper |

Supply

| | |
|-----------------------------|--|
| Supply voltage (DC) | 24 V |
| 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 ² |
| Residual ripple | 3.6 V _{PP} (within the permitted voltage range) |
| Max. current consumption | 170 mA (at 9 V DC) |
| Typical current consumption | 26 mA (at 24 V DC) |

Connection data

Connection technology

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

Power supply

| | |
|---|--|
| Connection method | Push-in spring connection |
| Conductor cross section, rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section, flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 12 |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm ² ... 2.5 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 2.5 mm ² |
| Stripping length | 10 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 |
| 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 Class I, Div. 2, Groups A, B, C, D, T4 Class I, Zone 2, Group IIC, T4 |
| FCC | Title 47 Part 15 Subpart B:2018 Class A |

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 EN 61000-6-2 Class A |
| 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

| | |
|----------------|---|
| Status display | LEDs: U _S , link and activity per port |
|----------------|---|

FL SWITCH 1008NT - Industrial Ethernet Switch



1085165

<https://www.phoenixcontact.com/au/products/1085165>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/1085165>



DNV GL

Approval ID: TAA000034U



UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705



KC

Approval ID: R-R-PCK-1085165

CC-Link IE Field

CC-Link IE Field

Approval ID: NRT-IT-00068



IECEX

Approval ID: IECEX UL 21.0120X



cUL Listed

Approval ID: E196811



UL Listed

Approval ID: E196811



ATEX

Approval ID: UL 21 ATEX 2638X

FL SWITCH 1008NT - Industrial Ethernet Switch



1085165

<https://www.phoenixcontact.com/au/products/1085165>

Classifications

ECLASS

ECLASS-13.0

19170402

ETIM

ETIM 9.0

EC000734

UNSPSC

UNSPSC 21.0

43222600

FL SWITCH 1008NT - Industrial Ethernet Switch



1085165

<https://www.phoenixcontact.com/au/products/1085165>

Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 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 | 16273ee2-7d09-4ea8-befc-b7afd90404e6 |

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT PTY Ltd

Unit 7, 2-8 South Street

Rydalmere NSW 2116

1300 786 411

customerservice@phoenixcontact.com.au