

1085214

https://www.phoenixcontact.com/us/products/1085214

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.



Unmanaged Switch 1000 series, 4 RJ45 ports 10/100 Mbps, 1 SC single mode 100 Mbps, degree of protection: IP30, Ambient temperature (operation): -10 °C ... 60 °C, Supply voltage range: 9 V DC ... 32 V DC, PROFINET Conformance-Class A

## Your advantages

- · QoS-prioritized (Quality of Service) messages
- RJ45 ports support a transmission speed of 10/100 Mbps
- · Local diagnostic indicators with LEDs
- · Enhanced traffic prioritization for automation protocols
- PROFINET PTCP filter for reliable communication on PROFINET networks
- 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                          | 1085214       |
|--------------------------------------|---------------|
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN20          |
| Product key                          | DNN116        |
| GTIN                                 | 4055626834498 |
| Weight per piece (including packing) | 218 g         |
| Weight per piece (excluding packing) | 137 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | TW            |



1085214

https://www.phoenixcontact.com/us/products/1085214

## Technical data

#### **Dimensions**

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

### Notes

#### Note on application

|   | Note on application     | Only for industrial use |
|---|-------------------------|-------------------------|
|   |                         |                         |
| ı | Itilization restriction |                         |

#### Utilization restrictioi

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

## Material specifications

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

### Mounting

## Interfaces

### Ethernet (RJ45)

| Number of interfaces          | 4                                 |
|-------------------------------|-----------------------------------|
| 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               | 4 (RJ45 ports)                    |
| Input buffer                  | 768 Kbits                         |
| Output buffer                 | 768 Kbits                         |

### Ethernet FO

| Zulomet i o                  |   |
|------------------------------|---|
| Number of interfaces         | 1   |
| Connection method            | SC  |
| Transmission speed           | 100 Mbps (full duplex)                      |
| Transmit capacity, minimum   | -20 dBm                                     |
| Transmit capacity, maximum   | 0 dBm                                       |
| Minimum receiver sensitivity | -32 dBm                                     |
| Maximum receiver sensitivity | 0 dBm                                       |
| Transmission physics         | Single-mode fiberglass                      |
| Transmission length          | 20 km (fiberglass with F-G 9/125 0.5 dB/km) |
|                              |   |



1085214

https://www.phoenixcontact.com/us/products/1085214

| Wavelength   | 1310 nm  |
|--|--|
| No. of channels  |  |
| No. of channels  | 1 (SC single mode)   |
| oduct properties   |  |
| Product type   | Switch   |
| Product family   | Unmanaged Switch 1000  |
| MTTF   | 95.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)                            |
|  | 298.8 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)                                 |
|  | 188.3 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| Basic functions  | Unmanaged switch   |
|  | Autonegotiation  |
|  | Store and Forward switching mode   |
| Switch functions   |  |
| 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 <sub>S</sub> , 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   |
| ectrical properties  |  |
|  | 2.196 W (at 24 V DC)   |
| Maximum power dissipation for nominal condition  | -····· \-·· -· \-·· -· · · · · · · · · · - ·                     |
| Maximum power dissipation for nominal condition  Transmission medium                     |  |
| Maximum power dissipation for nominal condition  Transmission medium                     | Copper<br>FO   |
| Transmission medium  | Copper   |
| Transmission medium Supply   | Copper<br>FO   |
| Transmission medium  Supply  Supply voltage (DC)   | Copper<br>FO<br>24 V DC  |
| Transmission medium  Supply  Supply voltage (DC)  Supply voltage (AC)                    | Copper FO  24 V DC 24 V AC (50/60 Hz)  |
| Transmission medium  Supply  Supply voltage (DC)   | Copper FO  24 V DC 24 V AC (50/60 Hz) 9 V DC 32 V DC   |
| Transmission medium  Supply Supply voltage (DC) Supply voltage (AC) Supply voltage range | Copper FO  24 V DC 24 V AC (50/60 Hz) 9 V DC 32 V DC 18 V AC 30 V AC (50/60 Hz)                        |
| Transmission medium  Supply  Supply voltage (DC)  Supply voltage (AC)                    | Copper FO  24 V DC 24 V AC (50/60 Hz) 9 V DC 32 V DC   |



1085214

https://www.phoenixcontact.com/us/products/1085214

| Typical current consumption   | 51 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 <sup>2</sup> 2.5 mm <sup>2</sup> |
| 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                        |

10 mm

### Environmental and real-life conditions

#### Ambient conditions

Stripping length

| 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  |

### EMC data

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

## System properties



1085214

https://www.phoenixcontact.com/us/products/1085214

| Functionality | unctionality    |   |
|---------------|-----------------|---|
| Basic fun     | Basic functions | Unmanaged switch                                  |
|               |                 | Autonegotiation                                   |
|               |                 | Store and Forward switching mode                  |
| Signaling     |                 |   |
| Status di     | splay           | LEDs: U <sub>S</sub> , link and activity per port |



1085214

https://www.phoenixcontact.com/us/products/1085214

## **Approvals**

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1085214



EAC

Approval ID: RU D-DE.GB09.B.00312



KC

Approval ID: R-R-PCK-1085214



**cULus Listed** 

Approval ID: E238705



**cULus Listed** 

Approval ID: E140403



cUL Listed

Approval ID: E196811



**UL Listed** 

Approval ID: E196811



1085214

https://www.phoenixcontact.com/us/products/1085214

## Classifications

### **ECLASS**

|        | ECLASS-13.0 | 19170402 |  |
|--------|-------------|----------|--|
|        | ECLASS-15.0 | 19170402 |  |
|        |             |          |  |
| ETIM   |             |          |  |
|        | ETIM 9.0    | EC000734 |  |
| UNSPSC |             |          |  |
|        |             |          |  |
|        | UNSPSC 21.0 | 43222600 |  |



1085214

https://www.phoenixcontact.com/us/products/1085214

## Environmental product compliance

#### EU RoHS

| Fulfills EU RoHS substance requirements | Yes   |
|---|---|
| Exemption                               | 7(a), 7(c)-l  |
| 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                                    | 2d06d5ab-21ba-4a08-b6ba-2f7208360ca9  |
| EF3.0 Climate Change                    |   |
| CO2e kg                                 | 4.64 kg CO2e  |
|   |   |

Phoenix Contact 2025 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com