

1085219

https://www.phoenixcontact.com/us/products/1085219

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Narrow Ethernet switch, sixteen RJ45 ports with 10/100/1000 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 10/100/1000 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
- Jumbo frame support (frame size up to 9216 bytes/frame)

Commercial data

| Item number | 1085219 |
|--------------------------------------|---------------|
| Packing unit | 1 pc |
| Sales key | DN20 |
| Product key | DNN116 |
| GTIN | 4055626833675 |
| Weight per piece (including packing) | 541 g |
| Weight per piece (excluding packing) | 455 g |
| Customs tariff number | 85176200 |
| Country of origin | TW |



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Technical data

Dimensions

| Width | 40 mm |
|--------|--------|
| | |
| Height | 151 mm |
| Depth | 98 mm |

Notes

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 | 16 |
|-------------------------------|-----------------------------------|
| 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 | 16 (RJ45 ports) |

Product properties

| Product type | Switch |
|----------------|--|
| Product family | Unmanaged Switch 1000 |
| MTTF | 77.4 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |
| | 833.6 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) |
| | 616.1 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 |



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PROFINET conformance class

| MAC address table | 8k |
|---|--|
| Status and diagnostic indicators | LEDs: U _S , 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) |
| ecurity functions | |
| Basic functions | Unmanaged switch |
| Dadic Idilottolia | Autonegotiation |
| | Store and Forward switching mode |
| | otoro ana i ornana omtorning moad |
| etrical properties | |
| Maximum power dissipation for nominal condition | 22.2 W (at 24 V DC) |
| Transmission medium | Copper |
| | |
| apply | 04.1/ |
| Supply voltage (DC) | 24 V |
| Supply voltage range | 9 V DC 32 V DC |
| Power supply connection | Via COMBICON, max. conductor cross section 2.5 mm ² |
| Residual ripple | 3.6 V _{PP} (within the permitted voltage range) |
| | 925 mA (at 9 V DC) |
| Max. current consumption | 323 IIIA (at 3 V DO) |

Conformance-Class A

Connection data

Connection technology

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

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 |
|----------------------|------|



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| 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 CE-compliant |
|------------------|--|
| 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 |

EMC data

| 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 61000-6-2:2005 |
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Noise emission | EN 61000-6-4:2007 + A1:2011 |

System properties

Functionality

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

Signaling

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



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Approvals

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UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705



CC-Link IE Field

Approval ID: NRT-IF-00056



CC-Link IE Field

Approval ID: NRT-IT-00065



KC

Approval ID: R-R-PCK-1085219

UAE-RoHS

Approval ID: 23-09-84493



IECEx

Approval ID: IECEx UL 21.0120X



cUL Listed

Approval ID: File E 196811



UL Listed

Approval ID: File E 196811



ATEX

Approval ID: UL 21 ATEX 2638X

cULus Listed



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Classifications

ECLASS

| | ECLASS-11.0 | 19170402 |
|--------|-------------|----------|
| | ECLASS-12.0 | 19170402 |
| | ECLASS-13.0 | 19170402 |
| ETIM | | |
| | ETIM 9.0 | EC000734 |
| UNSPSC | | |
| | UNSPSC 21.0 | 43222600 |



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Environmental product compliance

EU RoHS

| Yes |
|---|
| |
| 15(a), 7(a), 7(c)-l |
| |
| 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. |
| |
| Lead(CAS: 7439-92-1) |
| ee9801bc-432d-432c-84a5-56d5f4baeff6 |
| |



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Accessories

FKCT 2,5/ 3-ST KMGY BD:US,GND - PCB connector

1087544

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PCB connector, nominal cross section: 2.5 mm², color: light grey, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of rows: 1, number of positions: 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: without, type of packaging: packed in cardboard

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

1998263

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



PCB connector, nominal cross section: 2.5 mm², color: light grey, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, 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: without, type of packaging: packed in cardboard



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FL DIN-RAIL ADAPTER 40 - Mounting panel

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The FL DIN-RAIL ADAPTER 40 is designed to allow products 40 mm wide to be mounted flush to a standard 35 mm DIN rail, in any orientation.

FL PANEL ADAPTER 40 - Mounting panel

1085486

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The FL PANEL ADAPTER 40 is designed to allow products 40 mm wide to be mounted flush to a panel, in any orientation.



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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_A (CAT6_A), 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

FL CAT5 PATCH 0,5 - Patch cable

2832263

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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

FL CAT5 PATCH 2,0 - Patch cable

2832289

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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, ${\rm CAT6}_{\rm A}$, cable outlet: straight, Ethernet

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

1408360

https://www.phoenixcontact.com/us/products/1408360



Patch cable, CAT6 $_{\rm A}$, 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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NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365

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



Patch cable, CAT6 $_{\rm A}$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

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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FL RJ45 PROTECT CAP - Dust protection

2832991

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Dust protection caps for RJ45 socket

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