#### 1085039

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

## Your advantages

- RJ45 ports support a transmission speed of 10/100 Mbps
- · QoS-prioritized (Quality of Service) messages
- · 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
- · Auto negotiation and autocrossing detection simplifies installation and setup

## Commercial data

Item number	1085039
Packing unit	1 pc
Sales key	DN20
Product key	DNN116
GTIN	4055626834320
Weight per piece (including packing)	212 g
Weight per piece (excluding packing)	131 g
Country of origin	TW

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## Technical data

### Dimensions

Width	22.5 mm
Height	117 mm
Depth	84 mm

#### Notes

Jtilization 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

Number of interfaces	5
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	5 (RJ45 ports)

## Product properties

Product type	Switch
Product family	Unmanaged Switch 1000
MTTF	167.2 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
	1627 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	1526 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

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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
Maximum power dissipation for nominal condition	2.64 W Copper
	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 Residual ripple	Via COMBICON, max. conductor cross section 2.5 mm <sup>2</sup>
	3.6 $V_{PP}$ (within the permitted voltage range)
Max. current consumption	110 mA (at 9 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 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 mm² 2.5 mm²		
Conductor cross section flexible, with ferrule without 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



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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 (Withou derating)
Air pressure (storage/transport)	79 kPa 108 kPa up to 2000 m above mean sea level (Withou derating)
andards and regulations	
Free from substances that could impair the application of coating	In acc. with VW specification
pprovals	
nformity/Approvals	

	UL, USA / Canada	UL 61010-1, UL 61010-2-201, UL 62368-1 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

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 61000-6-4 Class A
	EN 61000-6-4 Conducted noise emission 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

Basic functions	Unmanaged switch		
	Autonegotiation		
	Store and Forward switching mode		
Signaling			
Status display	LEDs: $U_S$ , link and activity per port		





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# Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1085039

State Approval ID: DK-91138-UL
EAC Approval ID: RU *-DE.A*08.B.00731
Approval ID: DK-91246-UL
UL Listed Approval ID: FILE E 140403
CUL Listed Approval ID: FILE E 140403
KC Approval ID: R-R-PCK-1085039
CUL Listed     Approval ID: FILE E 238705
UL Listed Approval ID: FILE E 238705
CC-Link IE Field Approval ID: NRT-IT-00068
UAE-RoHS
Approval ID: 23-09-84493
Approval ID: FILE E 196811





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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

**REACh SVHC** 

Lead 7439-92-1

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## Accessories

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

1087544 https://www.phoenixcontact.com/us/products/1087544



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, 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 mm<sup>2</sup>, 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 22.5 - Mounting panel

#### 1085485

https://www.phoenixcontact.com/us/products/1085485



The FL DIN-RAIL ADAPTER 22.5 is designed to allow products 22.5 mm wide to be mounted flush to a standard 35 mm DIN rail, in any orientation.

### FL PANEL ADAPTER 22.5 - Mounting panel

1085488

https://www.phoenixcontact.com/us/products/1085488



The FL PANEL ADAPTER 22.5 is designed to allow products 22.5 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<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.

### 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

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Patch cable, CAT5, assembled, 1 m



## 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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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,  $CAT6_A$ , cable outlet: straight, Ethernet

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

1408360

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



Patch cable,  $CAT6_A$ , 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,  $\text{CAT6}_{\text{A}}$ , 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

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

Dust protection caps for RJ45 socket



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