

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
Minimum order quantity	1 pc
Sales key	DN20
Product key	DNN116
GTIN	4055626834320
Weight per piece (including packing)	210.13 g
Weight per piece (excluding packing)	131 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	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



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	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)
curity functions	
Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode
trical properties	·
Maximum power dissipation for nominal condition	0.99 W (at 24 V DC)
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Maximum power dissipation for nominal condition	0.99 W (at 24 V DC)
Maximum power dissipation for nominal condition Transmission medium	0.99 W (at 24 V DC)
Maximum power dissipation for nominal condition Transmission medium pply	0.99 W (at 24 V DC) Copper
Maximum power dissipation for nominal condition Transmission medium pply Supply voltage (DC)	0.99 W (at 24 V DC) Copper 24 V DC
Maximum power dissipation for nominal condition Transmission medium pply Supply voltage (DC) Supply voltage (AC)	0.99 W (at 24 V DC) Copper 24 V DC 24 V AC (50/60 Hz)
Maximum power dissipation for nominal condition Transmission medium pply Supply voltage (DC) Supply voltage (AC)	0.99 W (at 24 V DC) Copper 24 V DC 24 V AC (50/60 Hz) 9 V DC 32 V DC
Maximum power dissipation for nominal condition Transmission medium pply Supply voltage (DC) Supply voltage (AC) Supply voltage range	0.99 W (at 24 V DC) Copper 24 V DC 24 V AC (50/60 Hz) 9 V DC 32 V DC 18 V AC 30 V AC (50/60 Hz)
Maximum power dissipation for nominal condition Transmission medium pply Supply voltage (DC) Supply voltage (AC) Supply voltage range Power supply connection	0.99 W (at 24 V DC) Copper 24 V DC 24 V AC (50/60 Hz) 9 V DC 32 V DC 18 V AC 30 V AC (50/60 Hz) Via COMBICON, max. conductor cross section 2.5 mm²

Connection data

Connection technology

Connection name	Power supply
pluggable	yes

Power supply

1 ower 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 mm ² 2.5 mm ²
Stripping length	10 mm

Environmental and real-life conditions

Ambient conditions



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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)

Standards and regulations

Free from substances that could impair the application of coating	In acc. with VW specification
Free from substances that could impair the application of coating	in acc. with vvv specification

Approvals

Conformity/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

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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onformance 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
	FCC/CFR 47, Part 15.109 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



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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



IECEE CB Scheme

Approval ID: DK-91138-UL



IECEE CB Scheme

Approval ID: DK-91246-UL



KC

Approval ID: R-R-PCK-1085039



CC-Link IE Field

Approval ID: NRT-IT-00068



cULus Listed

Approval ID: E238705



cULus Listed

Approval ID: E140304



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 9.0	EC000734
UNSPSC		
	UNSPSC 21.0	43222600



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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	2cf6e074-8e85-4498-87aa-8a0ef94111a5	
EF3.0 Climate Change		
CO2e kg	11.27 kg CO2e	



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Accessories

MVSTBW 2,5/3-ST-5,08 GY - PCB connector

1783685

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PCB connector, nominal cross section: 2.5 mm², color: gray, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MVSTBW 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -90 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting method: without, type of packaging: packed in cardboard

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

1998263

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



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FL DIN-RAIL ADAPTER 22.5 - Mounting panel

1085485

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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

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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

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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

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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

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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

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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 $_{\rm m}$

E/NS 35 N - End bracket

0800886

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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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