

1085176

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Unmanaged Switch 1000, 5 RJ45 ports 10/100 Mbps, 2 SFP ports 100 Mbps, PROFINET Conformance-Class A

### Your advantages

- RJ45 ports support a transmission speed of 10/100 Mbps
- · QoS-prioritized (Quality of Service) messages
- · Local diagnostic indicators with LEDs
- PROFINET PTCP filter for reliable communication on PROFINET networks
- · Enhanced traffic prioritization for automation protocols
- 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	1085176
Packing unit	1 pc
Sales Key	DN20
Product Key	DNN116
GTIN	4055626834832
Weight per Piece (including packing)	254.2 g
Weight per Piece (excluding packing)	173 g
Country of origin	TW



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### **Technical Data**

### **Dimensions**

Width	22.5 mm
Height	140.4 mm
Depth	92.4 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
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### Mounting

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### 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)

### Ethernet (SFP)

Number of interfaces	2
Connection method	SFP
Transmission speed	100 Mbps (full duplex)
Transmission physics	Depending on the SFP module
Transmission length	up to 40 km (Depending on the fiber/SFP module used)
Signal LEDs	Data receive, link status
No. of channels	2 (SFP ports)

### Product properties

Product type	Switch
Product family	Unmanaged Switch 1000
MTTF	107.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)



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	1294.8 Years (Telcordia standard, 25°C temperature, 21%
	operating cycle (5 days a week, 8 hours a day))
witch 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)
ecurity functions	
Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode
Maximum power dissipation for nominal condition pply	7.44 W
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	Via COMBICON, max. conductor cross section 2.5 mm²
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Max. current consumption	252 mA (at 9 V DC)
Typical current consumption	25 mA (at 24 V DC)
nection data	
Connection name	Power supply
pluggable	yes
ower supply	
ower supply  Connection method	Push-in spring connection
	Push-in spring connection 0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>



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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
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)

### System properties

### Functionality

Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode

### Signaling

Status display	EDs: U <sub>S</sub> , link and activity per port
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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1085176



EAC

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



**UL Listed** 

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 140403



**UL Listed** 

Approval ID: FILE E 140403



KC

Approval ID: R-R-PCK-1085176



cUL Listed

Approval ID: FILE E 196811



**UL Listed** 

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 8.0	EC000734	

### **UNSPSC**



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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 mm², color: light grey, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: 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, type of contact: 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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### DT-LAN-CAT.6+ - Surge protection device

2881007

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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 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.



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### FL PANEL ADAPTER 22.5 - Mounting panel

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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.

### E/NS 35 N - End clamp

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

### FL SFP FX - Media module

2891081

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The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).



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#### FL SFP FX SM - Media module

2891082

https://www.phoenixcontact.com/us/products/2891082



The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).

### FL SFP FE WDM20-SET - Media module

2702439

https://www.phoenixcontact.com/us/products/2702439

Fast Ethernet SFP WDM set for transmission up to a maximum of 20 km on a single fiber with a wavelength of 1310/1550 nm.





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### FL CAT5 PATCH 0,5 - Patch cable

2832263

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Patch cable, CAT5, assembled, 0.5 m

### FL CAT5 PATCH 1,0 - Patch cable

2832276

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Patch cable, CAT5, assembled, 1 m



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### FL CAT5 PATCH 2,0 - Patch cable

2832289

https://www.phoenixcontact.com/us/products/2832289



Patch cable, CAT5, assembled, 2 m

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



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#### 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  $_{\rm m}$ 

#### 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



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#### NBC-R4AC/1,0-93B/R4AC - Patch cable

1408968

https://www.phoenixcontact.com/us/products/1408968



Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

#### NBC-R4AC/2,0-93B/R4AC - Patch cable

1408969

https://www.phoenixcontact.com/us/products/1408969



Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET



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### NBC-R4AC/5,0-93B/R4AC - Patch cable

1408970

https://www.phoenixcontact.com/us/products/1408970



Patch cable, degree of protection: IP20, cable length: 5 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

### FOC-LC:PA-SC:PA-OM2:D01/1 - FO patch cable

1115607

https://www.phoenixcontact.com/us/products/1115607

Multi-mode OM2 duplex jumper, LC-SC, UPC polishing, length 1 m





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### FOC-LC:PA-SC:PA-OM2:D01/2 - FO patch cable

1115605

https://www.phoenixcontact.com/us/products/1115605

Multi-mode OM2 duplex jumper, LC-SC, UPC polishing, length 2 m



### FOC-LC:PA-LC:PA-OM2:D01/1 - FO patch cable

1115633

https://www.phoenixcontact.com/us/products/1115633

Multi-mode OM2 duplex jumper, LC-LC, UPC polishing, length 1 m





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### FOC-LC:PA-LC:PA-OM2:D01/2 - FO patch cable

1115634

https://www.phoenixcontact.com/us/products/1115634

Multi-mode OM2 duplex jumper, LC-LC, UPC polishing, length 2 m



### FOC-LC:PA-ST:PA-OM2:D01/1 - Fiber optic cable

1115588

https://www.phoenixcontact.com/us/products/1115588

Multi-mode OM2 duplex jumper, LC-ST, UPC polishing, length 1 m





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### FOC-LC:PA-ST:PA-OM2:D01/2 - Fiber optic cable

1115587

https://www.phoenixcontact.com/us/products/1115587

Multi-mode OM2 duplex jumper, LC-ST, UPC polishing, length 2 m



### FOC-LC:PA-SC:PA-OM4:D01/1 - FO patch cable

1115601

https://www.phoenixcontact.com/us/products/1115601

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 1 m





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### FOC-LC:PA-SC:PA-OM4:D01/2 - FO patch cable

1115600

https://www.phoenixcontact.com/us/products/1115600

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 2 m  $\,$ 



### FOC-LC:PA-LC:PA-OM4:D01/1 - FO patch cable

1115625

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Multi-mode OM4 duplex jumper, LC-LC, UPC polishing, length 1 m





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### FOC-LC:PA-LC:PA-OM4:D01/2 - FO patch cable

1115624

https://www.phoenixcontact.com/us/products/1115624

Multi-mode OM4 duplex jumper, LC-LC, UPC polishing, length 2 m



### FOC-LC:PA-LC:PA-OS2:D01/1 - FO patch cable

1115636

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Single-mode OS2 duplex jumper, LC-LC, UPC polishing, length 1 m





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### FOC-LC:PA-LC:PA-OS2:D01/2 - FO patch cable

1115629

https://www.phoenixcontact.com/us/products/1115629

Single-mode OS2 duplex jumper, LC-LC, UPC polishing, length 2  $\,\mathrm{m}$ 



### FOC-LC:PA-ST:PA-OS2:D01/1 - FO patch cable

1115596

https://www.phoenixcontact.com/us/products/1115596

Single-mode OS2 duplex jumper, LC-ST, UPC polishing, length 1 m





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### FOC-LC:PA-ST:PA-OS2:D01/2 - FO patch cable

1115595

https://www.phoenixcontact.com/us/products/1115595

Single-mode OS2 duplex jumper, LC-ST, UPC polishing, length 2  $\mbox{m}$ 



### FOC-LC:PA-SC:PA-OS2:D01/1 - FO patch cable

1115618

https://www.phoenixcontact.com/us/products/1115618

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 1 m





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### FOC-LC:PA-SC:PA-OS2:D01/2 - FO patch cable

1115617

https://www.phoenixcontact.com/us/products/1115617

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 2 m



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