

1085179

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Ethernet switch, four RJ45 ports, one ST fiber port

Your advantages

- RJ45 ports support a transmission speed of 10/100 Mbps
- · QoS-prioritized (Quality of Service) messages
- 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	1085179
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN20
Product key	DNN116
GTIN	4055626835105
Weight per piece (including packing)	216.96 g
Weight per piece (excluding packing)	134 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
ı	Itilization restriction	

Utilization restriction

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

Material specifications Housing material

ountina			

Polycarbonate fiber reinforced

Mounting

Mounting type	DIN rail mounting
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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

Number of interfaces 1 Connection method ST Transmission speed 100 Mbps (full duplex) Transmit capacity, minimum -20 dBm Transmit capacity, maximum -14 dBm Minimum receiver sensitivity -32 dBm Maximum receiver sensitivity 0 dBm Transmission physics multi-mode fiberglass Transmission length 8 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000)		
Transmission speed 100 Mbps (full duplex) Transmit capacity, minimum -20 dBm Transmit capacity, maximum -14 dBm Minimum receiver sensitivity -32 dBm Maximum receiver sensitivity 0 dBm Transmission physics multi-mode fiberglass	Number of interfaces	1
Transmit capacity, minimum -20 dBm Transmit capacity, maximum -14 dBm Minimum receiver sensitivity -32 dBm Maximum receiver sensitivity 0 dBm Transmission physics multi-mode fiberglass	Connection method	ST
Transmit capacity, maximum -14 dBm Minimum receiver sensitivity -32 dBm Maximum receiver sensitivity 0 dBm Transmission physics multi-mode fiberglass	Transmission speed	100 Mbps (full duplex)
Minimum receiver sensitivity -32 dBm Maximum receiver sensitivity 0 dBm Transmission physics multi-mode fiberglass	Transmit capacity, minimum	-20 dBm
Maximum receiver sensitivity 0 dBm Transmission physics multi-mode fiberglass	Transmit capacity, maximum	-14 dBm
Transmission physics multi-mode fiberglass	Minimum receiver sensitivity	-32 dBm
	Maximum receiver sensitivity	0 dBm
Transmission length 8 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000)	Transmission physics	multi-mode fiberglass
	Transmission length	8 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000)



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Residual ripple

5.71 km (fiberglass with F-G 50/125 0.7 dB/km F1200)
1300 nm
1 (ST multi-mode)
Switch
Unmanaged Switch 1000
115.1 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
427.5 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
279.5 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
Unmanaged switch
Autonegotiation
Store and Forward switching mode
Unmanaged switch
Autonegotiation
Store and Forward switching mode
Conformance-Class A
2k
LEDs: U _S , link and activity per port
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)
Unmanaged switch
Autonegotiation
Store and Forward switching mode
2.196 W (at 24 V DC)
Copper
FO
24 V DC
24 V AC (50/60 Hz)
24 V AC (50/60 Hz)

3.6 V_{PP} (within the permitted voltage range)



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Max. current consumption	244 mA (at 9 V DC)
Typical current consumption	60 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 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

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 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

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



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System properties

Functionality Basic functions	Llamanagad autitab	
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/1085179



EAC

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



KC

Approval ID: R-R-PCK-1085179



cULus Listed

Approval ID: E238705



cULus Listed

Approval ID: E140403



cUL Listed

Approval ID: E196811



UL Listed

Approval ID: E196811



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	19170402		
	ECLASS-15.0	19170402		
ETIM				
	ETIM 9.0	EC000734		
UNSPSC				

43222600



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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	baad7a33-4893-4c0f-8ccf-c9147dac659b			



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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

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



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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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, DS1. Suitable for Power over Ethernet (PoE++/4PPoE) "Mode A" and "Mode B". RJ45 intermediate plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails. Products with similar requirements: DT-LAN-CAT.6A (2908726) und D-LAN-CAT.5-HC (2800763).

FL DIN-RAIL ADAPTER 22.5 - Mounting panel

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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

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.

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

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

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Patch cable, ${\rm CAT6_A}$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

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

1408968

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Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET, 1x4xAWG22/7, SF/TQ, green RAL 6018



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

1408969

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Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET, 1x4xAWG22/7, SF/TQ, green RAL 6018

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, 1x4xAWG22/7, SF/TQ, green RAL 6018



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

1115574

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Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 1 $\rm m$



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

1115573

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





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FOC-ST:PA-ST:PA-OM2:D01/1 - FO patch cable

1115560

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



FOC-ST:PA-ST:PA-OM2:D01/2 - FO patch cable

1115557

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





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

1115588

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



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

1115587

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



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