

1071800

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Ethernet switch, eight TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function. The multicast filter will block PROFINET PTCP-Delay traffic. EtherNet/IP™-based traffic will be prioritized over standard traffic.

# Your advantages

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

### Commercial data

Item number	1071800
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNN113
GTIN	4055626758985
Weight per piece (including packing)	410 g
Weight per piece (excluding packing)	400 g
Customs tariff number	85176200
Country of origin	TW



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# Technical data

#### **Dimensions**

Width	50 mm
Height	110 mm
Depth	70 mm

# Material specifications

Housing meterial	Aluminum
Housing material	Aluminum

# Mounting

Mounting type	DIN rail mounting

#### Interfaces

### Ethernet (RJ45)

,	
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	8 (RJ45 ports)

### Product properties

Product type	Switch
Product family	Unmanaged Switch SFNB
Туре	Block design
MTTF	253.4 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

### Data management status

Article revision	00
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# Switch functions

EtherNet/IP™ supported protocols	EtherNet/IP™
Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, 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	Autonegotiation

## Security functions

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3,
	store and forward switching mode



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# Electrical properties

Maximum power dissipation for nominal condition	3.36 W
Transmission medium	Copper
Supply	
Supply voltage (DC)	24 V DC
Supply voltage range	9 V DC 32 V DC
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	380 mA (at 9 V DC)
Typical current consumption	140 mA (at U <sub>S</sub> = 24 V DC)

### Connection data

### Connection technology

Connection name	Power supply
pluggable	yes
Power supply	
Connection method	Screw 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
Stripping length	7 mm

### Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-10 °C 60 °C
Ambient temperature (storage/transport)	-20 °C 85 °C
Permissible humidity (operation)	5 % 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % 95 % (non-condensing)
Air pressure (operation)	86 kPa 108 kPa (up to 1500 m above sea level)
Air pressure (storage/transport)	66 kPa 108 kPa (up to 3500 m above sea level)

## EMC data

Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4

# System properties

Functional	lity

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Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3,
	store and forward switching mode



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# Signaling

Status display LEDs: U<sub>S</sub>, link and activity per port



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# **Approvals**

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**IECEE CB Scheme** 

Approval ID: DK-88783-M1-UL



EAC

Approval ID: RU\*-DE.\*.B.00731/19



**UL Listed** 

Approval ID: E238705



cUL Listed

Approval ID: E238705

**cULus Listed** 



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# Classifications

UNSPSC 21.0

### **ECLASS**

ECLASS-11.0	19170402
ECLASS-12.0	19170402
ECLASS-13.0	19170402
ETIM	
ETIM 9.0	EC000734
UNSPSC	

43222600



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# Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-10
	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)



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# Accessories

MSTB 2,5/4-ST - PCB connector

1754481

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, 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

### DT-LAN-CAT.6+ - Surge protection device

2881007

https://www.phoenixcontact.com/pc/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



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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

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Patch cable, CAT5, assembled, 2 m

#### 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



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

1408360

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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: 2.0 m

#### 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 m



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### FL DIN RA - DIN rail adapter

2891053

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The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.



### FL RJ45 PROTECT CAP - Dust protection

2832991

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Dust protection caps for RJ45 socket



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E/NS 35 N - End bracket

0800886

https://www.phoenixcontact.com/pc/products/0800886



End clamp, width: 9.5 mm, color: gray

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