

2891110

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Ethernet Switch, 7 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in ST-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

#### Your advantages

- · QoS-prioritized (Quality of Service) messages
- RJ45 ports support a transmission speed of 10/100 Mbps
- · Fiber-optic ports support 100 Mbps
- · Local diagnostic indicators with LEDs
- The switch also offers cable locking and port blocking
- · Auto negotiation and autocrossing detection simplifies installation and setup

#### Commercial data

Item number	2891110
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN19
Product key	DNN113
Catalog page	Page 291 (C-6-2019)
GTIN	4046356100847
Weight per piece (including packing)	501 g
Weight per piece (excluding packing)	365 g
Customs tariff number	85176200
Country of origin	TW



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#### Technical data

#### **Dimensions**

Width	50 mm
Height	120 mm
Depth	70 mm

#### Material specifications

H2 (-2-)	Al'.
Housing material	Aluminum

#### 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	7 (RJ45 ports)

#### Fiber optic interface

Connection method	ST
Transmission speed	100 Mbps (full duplex)
Transmission physics	multi-mode fiberglass
Transmission length	2000 m (Fiberglass 50/125)
	2000 m (Fiberglass 62.5/125)
Wavelength	1300 nm
No. of channels	1 (ST multi-mode)

#### Product properties

Туре	Block design
Product type	Switch
Product family	Unmanaged Switch SFN
MTTF	67.3 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

#### Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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#### Switch functions

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



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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
lectrical properties	
Local diagnostics	US Supply voltage Green LED
	LNK/ACT Link status/data transmission Green LED
	100 Data transmission speed Yellow LED
Maximum power dissipation for nominal condition	4.56 W
Test section	500 V DC 1 min.
Transmission medium	Copper
	FO
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)
Typical current consumption	190 mA (at U <sub>S</sub> = 24 V DC)

#### Connection data

### Connection technology Connection name

Power supply	
Connection method	Pluggable COMBICON screw connections
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

Power supply

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C 60 °C
Ambient temperature (storage/transport)	-20 °C 70 °C
Permissible humidity (operation)	5 % 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % 95 % (non-condensing)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
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)



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	Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Sulfur dioxide (SO $_2$ ) 10 ±0.3 cm $^3$ /m $^3$ , hydrogen sulfide (H $_2$ S) 1 ±0.3 cm $^3$ /m $^3$ , at 25°C and 75% humidity and exposure of four days		
Standards and regulations				
	Free from substances that could impair the application of coating	In acc. with VW specification		
ΕN	лС data			
	Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B		
		IEC 61000-4-3 (immunity to radiated interference) Criterion A		
		IEC 61000-4-4 (burst) Criterion B		
		IEC 61000-4-5 (surge) Criterion B		
		IEC 61000-4-6 (immunity to conducted interference) Criterion A		
		IEC 61000-4-8 (immunity to magnetic fields) Criterion A		
		EN 55022 (emitted interference) Criterion A		
	Noise immunity	EN 61000-6-2:2005		
	Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC		
	Noise emission	EN 61000-6-4		
System properties  Functionality				
	Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode		
Si	gnaling			
	Status display	LEDs: U <sub>S</sub> , link and activity per port		



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#### **Approvals**

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EAC

Approval ID: RU\*-DE.\*.B.00741/19



**UL Listed** 

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 238705



**UL Listed** 

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 199827



**UL Listed** 

Approval ID: FILE E 199827



**UL Listed** 

Approval ID: FILE E 196811



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#### Classifications

ECLASS				
	ECLASS-11.0	19170402		
ETIM				
	ETIM 9.0	EC000734		
UNSPSC				
	UNSPSC 21.0	43222600		



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#### Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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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: Tin, 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

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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.



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#### FL SEC PAC 4TX - Port Guard Security Element

2832865

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Layer1 security elements for 4 RJ45 network connections for use with patch boxes and panels



#### FL DIN RA - DIN rail adapter

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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.





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#### FL RJ45 PROTECT CAP - Dust protection

2832991

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Dust protection caps for RJ45 socket

#### E/NS 35 N - End bracket

0800886

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End clamp, width: 9.5 mm, color: gray





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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, 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

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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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#### 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

#### 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



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

1408970

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

#### 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 m





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#### 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  $\rm m$ 



#### 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





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#### 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



#### 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





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#### 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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