

https://www.phoenixcontact.com/us/products/2891005

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Wide-temperature Ethernet switch, 8 TP RJ45 ports, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames

Your advantages

- RJ45 ports support a transmission speed of 10/100 Mbps
- Fiber-optic ports support 100 Mbps
- · QoS-prioritized (Quality of Service) messages
- Wide operating temperature range of -40 °C ... 75 °C
- · Alarm contact for power supply and link status diagnostics
- · The switch also offers cable locking and port blocking
- · Local diagnostic indicators with LEDs
- · Auto negotiation and autocrossing detection simplifies installation and setup

Commercial data

Item number	2891005
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN19
Product key	DNN113
Catalog page	Page 296 (C-6-2019)
GTIN	4046356457200
Weight per piece (including packing)	635.8 g
Weight per piece (excluding packing)	460 g
Customs tariff number	85176200
Country of origin	TW

2891005

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Technical data

Dimensions

	Width	50 mm
	Height	130 mm
	Depth	100 mm
No	ites	

Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.
Material specifications	

Housing material Aluminum Mounting DIN rail mounting

Mounting type

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
No. of channels	8 (RJ45 ports)

Product properties

Туре	Block design
Product type	Switch
Product family	Unmanaged Switch SFNT
MTTF	80.2 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
witch functions	
Basic functions	Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact
Status and diagnostic indicators	LEDs: ${\rm U}_{\rm S1},{\rm U}_{\rm S2}$ (redundant voltage supply), link and activity per port
Additional functions	Autonegotiation
Security functions	
Basic functions	Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact





2891005

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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	3.72 W
Transmission medium	Copper
ipply Supply voltage (DC)	24 V DC (redundant)
Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	9 V DC 32 V DC
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm ²
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Max. current consumption	490 mA (@9 V DC)
Typical current consumption	155 mA (at U _S = 24 V DC)

Connection data

Conductor cross section, rigid	0.2 mm ² 2.5 mm ²
Conductor cross section, flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 14
Stripping length	7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 75 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	5 % 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % 95 % (non-condensing)
Air pressure (operation)	62 kPa 108 kPa (up to 4160 m above mean sea level)
Air pressure (storage/transport)	62 kPa 108 kPa (up to 4160 m above mean sea level)

Approvals

Conformity/Approvals

Conformance	CE-compliant
ATEX	🐵 II 3 G Ex nA nC IIC T4 Gc
EU-type examination certificate	DEMKO 16 ATEX 1617X
IECEx	Ex nA nC IIC T4 Gc
IECEx certificate	IECEx UL 16.0093X
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

EMC data

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

2891005

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System properties

Functionality	
Basic functions	Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact
Signaling	
Status display	LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2891005

EAC	EAC Approval ID: RU *-DE.A*08.B.00739
	DNV GL Approval ID: TAA00002HR
Keyete	LR Approval ID: LR2002520TA
Clas	ISNK NK Approval ID: TA20175M
	BV Approval ID: 22935/C0 BV
ERC	EAC Approval ID: RU *-DE.A*30.B.01735
®	UL Listed Approval ID: FILE E 140324
•	CUL Listed Approval ID: FILE E 140324
	KC Approval ID: KCC-REI-PCK-FL289100
	SH proval ID: 627
	BS proval ID: 19-HG1928426-PDA
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ERI Appro	vval ID: RU*-DE.*.B.00741/19
	IECEX Approval ID: IECEx UL 16.0093X
	Listed val ID: FILE E 199827
	isted ral ID: FILE E 199827
Ex ATE Appr	EX oval ID: DEMKO 16 ATEX 1617X
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Classifications

ECLASS

ECLASS-11.0	19170402
ECLASS-12.0	19170402
ECLASS-13.0	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/ 6-ST - PCB connector

1754520 https://www.phoenixcontact.com/us/products/1754520



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: 6, number of rows: 1, number of positions: 6, number of connections: 6, 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/us/products/2881007



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.

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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, $CAT6_A$, cable outlet: straight, Ethernet

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

1408360

https://www.phoenixcontact.com/us/products/1408360



Patch cable, $CAT6_A$, 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

https://www.phoenixcontact.com/us/products/1408365



Patch cable, $CAT6_A$, 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 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

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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

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

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FL SEC PAC 4TX - Port Guard Security Element

2832865

https://www.phoenixcontact.com/us/products/2832865

Layer1 security elements for 4 RJ45 network connections for use with patch boxes and panels $% \left({{\left({{{\rm{A}}} \right)}_{{\rm{A}}}} \right)$



FL DIN RA - DIN rail adapter

2891053 https://www.phoenixcontact.com/us/products/2891053

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

https://www.phoenixcontact.com/us/products/2832991

Dust protection caps for RJ45 socket



E/NS 35 N - End bracket

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



End clamp, width: 9.5 mm, color: gray

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FL PA SFNT 5-8 - Mounting panel

2891012

https://www.phoenixcontact.com/us/products/2891012

Mounting plate for SFNT switches



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