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Managed Switch 2000, 5 RJ45 ports 10/100/1000 Mbps, PROFINET Conformance-Class A



Your advantages

- VLANs
- RSTP
- DHCP client, DHCP server (port-based)
- MRP client
- Unmanaged Mode
- Configuration memory
- Web-based management, SNMP
- · Easy and fast startup and commissioning with the FL NETWORK MANAGER software
- Suitable for PROFINET and EtherNet/IP[™] networks

Commercial data

Item number	2702665
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN17
Product key	DNN121
Catalog page	Page 305 (C-6-2019)
GTIN	4055626283425
Weight per piece (including packing)	382.8 g
Weight per piece (excluding packing)	240 g
Customs tariff number	85176200
Country of origin	DE

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Technical data

Dimensions **Dimensional drawing** 45 CHORONO Width 45 mm Height 130 mm Depth 119 mm Notes General Support by phone or on-site (fee is charged) Utilization restriction EMC note EMC: class A product, see manufacturer's declaration in the download area Material specifications Housing material Polycarbonate fiber reinforced Mounting Mounting type DIN rail mounting Interfaces Ethernet (RJ45) RJ45 Connection method Note on the connection method Auto negotiation and autocrossing 10/100/1000 Mbps Transmission speed Transmission physics Copper Transmission length 100 m (per segment) Signal LEDs Data receive, link status No. of channels 5 (RJ45 ports) Product properties Product type Switch Product family Managed Switch 2000 Type Book type MTTF 398.76 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)

174.97 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)



2702665

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	31.76 Years (SN 29500 standard, temperature 55°C, operating cycle 100%)
Signal delay	≥ 1.9 μ s (Store-and-Forward mode, 10/100/1000 Mbps, depending on the frame size)
sulation characteristics	
Protection class	III (VDE 0106)
Degree of pollution	2
witch functions	
Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP-Traps
	N:1-Portmirroring
	ACD (Address Conflict Detection)
	SysLog
	CRC-Surveillance
Basic functions	Store-and-forward switch, complies with IEEE 802.3
PROFINET conformance class	Conformance-Class A
Filter functions	Quality of Service (8 priority classes)
	Class of Service
	DiffServ/DSCP
	Port-Priorisierung
	VLAN (up to 8 VLANs)
	IGMP Snooping/Querier (v1/v2)
	Auto-Query-Port
	Extended Multicast Filtering
IP parameterization	DHCP-Client
	DHCP server (port based)
	BootP
MAC address table	8k
Management	Web-based management (HTTP/HTTPS)
	Role-based user management (LDAP)
	SNMPv1/v2/v3
Redundancy	Command Line Interface (Telnet, SSH)
	MRP (Media Redundancy Protocol)
	RSTP (Rapid Spanning Tree Protocol)
Status and diagnostic indicators	LEDs: US (power supply), 2 LEDs per Ethernet port (Link/Activit and Speed)
Additional functions	Jumbo frames (max. 9,600 bytes)
	Transmission of MMS and GOOSE (IEC 61850-8-1)
	Transmission of Modbus/TCP
Time synchronization	SNTP (Simple Network Time Protocol)
ecurity functions	
Basic functions	Store-and-forward switch, complies with IEEE 802.3



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Electrical properties

Local diagnostics	US Supply voltage Green LED
	LNK/ACT Link status Green LED
	SPD Data transmission speed Green/orange LED
Maximum power dissipation for nominal condition	6.12 W (At U _S = 18 V DC and 60°C ambient temperature)
Test voltage	500 V DC
Test section	for one minute 500 V DC
Transmission medium	Copper
upply Supply voltage (DC)	24 V DC (single)
	24 V DC (single) 18 V DC 32 V DC
Supply voltage (DC)	
Supply voltage (DC) Supply voltage range	18 V DC 32 V DC
Supply voltage (DC) Supply voltage range Power supply connection	18 V DC 32 V DC via COMBICON, max. conductor cross section 1.5 mm ²
Supply voltage range Power supply connection Residual ripple	18 V DC 32 V DC via COMBICON, max. conductor cross section 1.5 mm² 3.6 V _{PP} (within the permitted voltage range)

Connection data

Connection method	Push-in spring connection
Note on the connection method	Use only copper connecting cables providing the permitted temperature range (-40 °C 75 °C).
Conductor cross section, rigid	0.25 mm² 1.5 mm²
Conductor cross section, flexible	0.25 mm² 1.5 mm²
Conductor cross section AWG	24 16
Stripping length	9 mm

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	0 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)
Shock (operation)	30g (EN 60068-2-27)
Vibration (operation)	2g, according to IEC 60068-2-6
Air pressure (operation)	86 kPa 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	86 kPa 108 kPa (1500 m above sea level)

Yes

Standards and regulations

Free from substances that could impair the application of coating

Approvals



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UL, USA/Canada	
Identification	cULus
Note	UL 61010-1, Ed. 3 / UL 61010-2-201, Ed. 1, CSA C22.2 NO. 61010-2-201:14. Ed. 1 / CSA C22.2 NO.61010-1-12. Ed. 3
MC data	
Conformance with EMC directives	EN 61000-6-2 EN 61000-4-2 (ESD) Criterion B
	EN 61000-6-2 EN 61000-4-3 (electromagnetic fields) Criterion A
	EN 61000-6-2 EN 61000-4-4 (EFT burst) Criterion A
	EN 61000-6-2 EN 61000-4-5 (surge) Criterion A
	EN 61000-6-2 EN 61000-4-6 (line noise immunity) Criterion A
	EN 61000-6-2 EN 61000-6-4 (interference) Class A
	EN 61000-6-2 EN 61000-6-4 (conducted interference) Class A
	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4

System properties

	Functionality	
	Basic functions	Store-and-forward switch, complies with IEEE 802.3
Sig	gnaling	

Status display LEDs: US (power supply), 2 LEDs per Ethernet port (Link/Activity and Speed)

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Drawings



Dimensional drawing



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2702665



UAE-RoHS Approval ID: 23-02-63230



CULus Listed Approval ID: E238705 2702665

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Classifications

ECLASS

ECLASS-11.0	19170401
ECLASS-12.0	19170401
ECLASS-13.0	19170401

ETIM

	ETIM 9.0	EC000734
UNSPSC		
	UNSPSC 21.0	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	cc2c42a1-912e-40b6-a406-c101562ff6fa

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Accessories

SD FLASH 2GB - Program / configuration memory

2988162

https://www.phoenixcontact.com/us/products/2988162



Program and configuration memory, for extending the internal flash memory, pluggable, 2 GB.

FL NETWORK MANAGER BASIC - Network management software

2702889

https://www.phoenixcontact.com/us/products/2702889



SNMP-based software for easy commissioning and monitoring of network components such as switches, routers, and WLAN access points

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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.



FL RJ45 PROTECT CAP - Dust protection

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



Dust protection caps for RJ45 socket

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E/NS 35 N - End bracket

0800886

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

End clamp, width: 9.5 mm, color: gray



FK-MCP 1,5/ 5-ST-3,81GY35BD1-5 - PCB connector

1015782

https://www.phoenixcontact.com/us/products/1015782



PCB connector, nominal cross section: 1.5 mm², color: light grey, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: FK-MCP 1,5/..-ST, pitch: 3.81 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

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MCVW 1,5/ 5-ST-3,81GY7035BD2US - PCB connector

1034103

https://www.phoenixcontact.com/us/products/1034103



PCB connector, nominal cross section: 1.5 mm², color: light grey, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: MCVW 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: -90 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

FL CAT5 PATCH 0,5 - Patch cable

2832263 https://www.phoenixcontact.com/us/products/2832263



Patch cable, CAT5, assembled, 0.5 m

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FL CAT5 PATCH 1,0 - Patch cable

2832276

https://www.phoenixcontact.com/us/products/2832276

Patch cable, CAT5, assembled, 1 m



FL CAT5 PATCH 2,0 - Patch cable

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



Patch cable, CAT5, assembled, 2 m

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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

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

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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VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

https://www.phoenixcontact.com/us/products/1656725



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet

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