

1085214

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Unmanaged Switch 1000, 4 RJ45 ports 10/100 Mbps, 1 SC single mode 100 Mbps, PROFINET Conformance-Class A

Your advantages

- · QoS-prioritized (Quality of Service) messages
- RJ45 ports support a transmission speed of 10/100 Mbps
- · Local diagnostic indicators with LEDs
- · Enhanced traffic prioritization for automation protocols
- PROFINET PTCP filter for reliable communication on PROFINET networks
- 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	1085214
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN20
Product key	DNN116
GTIN	4055626834498
Weight per piece (including packing)	218 g
Weight per piece (excluding packing)	137 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
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
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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)

Ethernet FO

Lilemet i O	
Number of interfaces	1
Connection method	SC
Transmission speed	100 Mbps (full duplex)
Transmit capacity, minimum	-20 dBm
Transmit capacity, maximum	0 dBm
Minimum receiver sensitivity	-32 dBm
Maximum receiver sensitivity	0 dBm
Transmission physics	Single-mode fiberglass
Transmission length	20 km (fiberglass with F-G 9/125 0.5 dB/km)
Wavelength	1310 nm
No. of channels	1 (SC single mode)



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Product properties

Product type	Switch
Product family	Unmanaged Switch 1000
MTTF	95.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
	298.8 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	188.3 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
ata management status	
Article revision	03
witch functions	
Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode
PROFINET conformance class	Conformance-Class A
MAC address table	2k
Status and diagnostic indicators	LEDs: U _S , link and activity per port
Additional functions	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)
ecurity functions	
Basic functions	
	Unmanaged switch
	Unmanaged switch Autonegotiation
	Autonegotiation
Basic functions	Autonegotiation
Basic functions ctrical properties	Autonegotiation Store and Forward switching mode 2.196 W (at 24 V DC)
Basic functions ctrical properties Maximum power dissipation for nominal condition	Autonegotiation Store and Forward switching mode
Ctrical properties Maximum power dissipation for nominal condition Transmission medium	Autonegotiation Store and Forward switching mode 2.196 W (at 24 V DC) Copper
Basic functions ctrical properties Maximum power dissipation for nominal condition	Autonegotiation Store and Forward switching mode 2.196 W (at 24 V DC) Copper
Ctrical properties Maximum power dissipation for nominal condition Transmission medium	Autonegotiation Store and Forward switching mode 2.196 W (at 24 V DC) Copper FO
Ctrical properties Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC)	Autonegotiation Store and Forward switching mode 2.196 W (at 24 V DC) Copper FO 24 V DC
Ctrical properties Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage (AC)	Autonegotiation Store and Forward switching mode 2.196 W (at 24 V DC) Copper FO 24 V DC 24 V AC (50/60 Hz)
Ctrical properties Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage (AC)	Autonegotiation Store and Forward switching mode 2.196 W (at 24 V DC) Copper FO 24 V DC 24 V DC 24 V AC (50/60 Hz) 9 V DC 32 V DC
Ctrical properties Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage (AC) Supply voltage range	Autonegotiation Store and Forward switching mode 2.196 W (at 24 V DC) Copper FO 24 V DC 24 V AC (50/60 Hz) 9 V DC 32 V DC 18 V AC 30 V AC (50/60 Hz)
Ctrical properties Maximum power dissipation for nominal condition Transmission medium upply Supply voltage (DC) Supply voltage (AC) Supply voltage range Power supply connection	Autonegotiation Store and Forward switching mode 2.196 W (at 24 V DC) Copper FO 24 V DC 24 V AC (50/60 Hz) 9 V DC 32 V DC 18 V AC 30 V AC (50/60 Hz) Via COMBICON, max. conductor cross section 2.5 mm²

Connection data



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Connection technology

Connection name	Power supply
pluggable	yes

Power supply

Connection method	Push-in spring connection
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 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 mm² 2.5 mm²
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

System properties

Functionality

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/1085214



EAC

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



UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705



cUL Listed

Approval ID: E140403



UL Listed

Approval ID: E140403



KC

Approval ID: R-R-PCK-1085214

UAE-RoHS

Approval ID: 23-09-84493



cUL Listed

Approval ID: E196811



UL Listed

Approval ID: E196811

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
UNS	SPSC	

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	2d06d5ab-21ba-4a08-b6ba-2f7208360ca9



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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: without, type of packaging: packed in cardboard

FKCT 2,5/ 3-ST KMGY - PCB connector

1998263

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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: 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, 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.

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

FL DIN-RAIL ADAPTER 22.5 - Mounting panel

1085485

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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

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