1085255

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Narrow Ethernet switch, sixteen RJ45 ports with 10/100 Mbps on all ports, automatic data transmission speed detection, autocrossing function, and QoS

Your advantages

- · QoS-prioritized (Quality of Service) messages
- · RJ45 ports support a transmission speed of 10/100 Mbps
- · Local diagnostic indicators with LEDs
- PROFINET PTCP filter for reliable communication on PROFINET networks
- · Enhanced traffic prioritization for automation protocols
- · Energy-efficient Ethernet in accord. with IEEE 802.3az
- · PROFINET Conformance Class A for real-time data exchange
- · Auto negotiation and autocrossing detection simplifies installation and setup

Commercial Data

Item number	1085255
Packing unit	1 pc
Sales Key	D15
Product Key	DNN116
GTIN	4055626835037
Weight per Piece (including packing)	350 g
Weight per Piece (excluding packing)	266 g
Country of origin	TW

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Technical Data

Dimensions

Width	40 mm
Height	140.4 mm
Depth	92.4 mm

Notes

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

Number of interfaces	16
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	16 (RJ45 ports)

Product properties

Product type	Switch
MTTF	63.7 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
	729 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	639 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
Switch functions	
Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode
PROFINET conformance class	Conformance-Class A
MAC address table	8k

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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)
	10D43C-1 (ILLE 002.0)
ecurity functions	
Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode
ctrical properties	
Transmission medium	Copper
Supply	
Supply voltage	24 V
	24 V AC (50/60 Hz)
Supply voltage range	9 V DC 32 V DC
	18 V AC 30 V AC (50/60 Hz)
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Max. current consumption	266 mA (at 9 V DC)
Typical current consumption	68 mA (at 24 V DC)
nnection data	
Connection method	Push-in spring connection
Conductor cross section, rigid	0.2 mm ² 2.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
Stripping length	10 mm
bient 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)
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30g (EN 60068-2-27)

derating)

derating)

in acc. with IEC 60068-2-6: 5g, 150 Hz

79 kPa ... 108 kPa up to 2000 m above mean sea level (Without

79 kPa ... 108 kPa up to 2000 m above mean sea level (Without

Shock (operation) Vibration (operation)

Air pressure (operation)

Air pressure (storage/transport)

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Conformity/Approvals				
Conformance	CE-compliant			
UL, USA / Canada	UL 61010-1, UL 61010-2-201 Class I, Div. 2, Groups A, B, C, D, T4 Class I, Zone 2, Group IIC, T4			
EMC 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 B			
	EN 61000-6-2 EN 61000-4-6 (line noise immunity) Criterion A			
	EN 61000-6-2 EN 61000-4-8 (electromagnetic fields) Criterion A			
	EN 61000-6-2 Class A			
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU			
Noise emission	EN 61000-6-4:2007 + A1:2011			

EN 61000-6-2:2005

LED signaling

Noise immunity

Status display LEDs: U _s , link and activity per port	LEDs: U _S , link and activity per port	
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Approvals

Approvals					
	Approval ID: DK-91138-U				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
				-	-
ERC	EAC Approval ID: RU *-DE.A*08	3.B.00731			
	Approval ID: DK-91246-U				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
				-	-
	UL Listed Approval ID: FILE E 140403	5			
•	cUL Listed				
	Approval ID: FILE E 14040	3			
C	KC Approval ID: R-R-PCK-1085	255			
•	CUL Listed Approval ID: FILE E 23870	5			
	UL Listed Approval ID: FILE E 238705				
	Approvanto. TIEL E 230703				
· B	cUL Listed				
Ä	Approval ID: FILE E 19681	1			
_					
	UL Listed Approval ID: FILE E 196811				
c	ULus Listed				

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Classifications

ECLASS

ECLASS-10.0.1 19170402	ECLASS-9.0	19170106
	ECLASS-10.0.1	19170402
ECLASS-11.0 19170402	ECLASS-11.0	19170402

ETIM

	ETIM 8.0	EC000734
UN	NSPSC	
	UNSPSC 21.0	43222600



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Environmental Product Compliance

REACh SVHC

Lead 7439-92-1

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Accessories

PCB connector

PCB connector - FKCT 2,5/ 3-ST KMGY BD:US,GND - 1087544 https://www.phoenixcontact.com/us/products/1087544



PCB connector, nominal cross section: 2.5 mm², color: light grey, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of rows: 1, number of positions: 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

PCB connector

PCB connector - FKCT 2,5/ 3-ST KMGY - 1998263 https://www.phoenixcontact.com/us/products/1998263



PCB connector, nominal cross section: 2.5 mm², color: light grey, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, 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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Mounting plate

Mounting plate - FL PANEL ADAPTER 40 - 1085486 https://www.phoenixcontact.com/us/products/1085486



The FL PANEL ADAPTER 40 is designed to allow products 40 mm wide to be mounted flush to a panel, in any orientation.

Mounting plate

Mounting plate - FL DIN-RAIL ADAPTER 40 - 1085484 https://www.phoenixcontact.com/us/products/1085484



The FL DIN-RAIL ADAPTER 40 is designed to allow products 40 mm wide to be mounted flush to a standard 35 mm DIN rail, in any orientation.

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Surge protection device

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

Patch cable

Patch cable - FL CAT5 PATCH 0,5 - 2832263 https://www.phoenixcontact.com/us/products/2832263



Patch cable, CAT5, assembled, 0.5 m

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Patch cable

Patch cable - FL CAT5 PATCH 1,0 - 2832276 https://www.phoenixcontact.com/us/products/2832276

Patch cable, CAT5, assembled, 1 m



Patch cable

Patch cable - FL CAT5 PATCH 2,0 - 2832289 https://www.phoenixcontact.com/us/products/2832289



Patch cable, CAT5, assembled, 2 m

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Patch cable

Patch cable - NBC-R4AC-R4AC-IE8A/.../... - 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

Patch cable

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

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/3,0 - 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

End clamp

End clamp - E/NS 35 N - 0800886 https://www.phoenixcontact.com/us/products/0800886



End clamp, width: 9.5 mm, color: gray

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Dust protection

Dust protection - FL RJ45 PROTECT CAP - 2832991 https://www.phoenixcontact.com/us/products/2832991

Dust protection caps for RJ45 socket

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