

1084159

https://www.phoenixcontact.com/in/products/1084159

Please be informed that the data shown in this PDF document is generated from our Online Catalog. Please find the complete data in the user documentation. Our General Terms of Use for Downloads are valid.



Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

Your advantages

- RJ45 ports support a transmission speed of 10/100 Mbps
- · QoS-prioritized (Quality of Service) messages
- · 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, alarms, and diagnostics
- Auto negotiation and autocrossing detection simplifies installation and setup

Commercial Data

Item number	1084159
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DNN
Product Key	DNN116
GTIN	4055626821559
Weight per Piece (including packing)	217 g
Weight per Piece (excluding packing)	136 g
Customs tariff number	85176200
Country of origin	TW



1084159

https://www.phoenixcontact.com/in/products/1084159

Technical Data

Dimensions

Width	22.5 mm	
Height	117 mm	
Depth	84 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

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

Euromet 1 0	
Number of interfaces	1
Connection method	SC
Transmission speed	100 Mbps (full duplex)
Transmit capacity, minimum	-20 dBm
Transmit capacity, maximum	-14 dBm
Minimum receiver sensitivity	-31 dBm
Maximum receiver sensitivity	0 dBm
Transmission physics	multi-mode fiberglass
Transmission length	8 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000)
	4.29 km (fiberglass with F-G 50/125 0.7 dB/km F1200)
Wavelength	1300 nm
No. of channels	1 (SC multi-mode)

Product properties



1084159

https://www.phoenixcontact.com/in/products/1084159

Product type	Switch
Product family	Unmanaged Switch 1000
MTTF	115.1 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
	427.5 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	279.5 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	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)
Security functions	
Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode

Electrical properties

Supply

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
3.6 V _{PP} (within the permitted voltage range)
230 mA (at 9 V DC)
59 mA (at 24 V DC)

Connection data

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



1084159

https://www.phoenixcontact.com/in/products/1084159

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
	Class I, Zone 2, Group IIC, T4

System properties

Functionality

Basic functions	Unmanaged switch
	Autonegotiation
	Store and Forward switching mode

Signaling

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



1084159

https://www.phoenixcontact.com/in/products/1084159

Approvals



EAC

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



UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 140403



UL Listed

Approval ID: FILE E 140403



cUL Listed

Approval ID: FILE E 196811



UL Listed

Approval ID: FILE E 196811



1084159

https://www.phoenixcontact.com/in/products/1084159

Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	19170402
ECLASS-12.0	19170402
ECLASS-13.0	19170402
ETIM	
ETIM 8.0	EC000734
UNSPSC	

43222600



1084159

https://www.phoenixcontact.com/in/products/1084159

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



1084159

https://www.phoenixcontact.com/in/products/1084159

Accessories

FKCT 2,5/ 3-ST KMGY BD:US,GND - PCB connector

1087544

https://www.phoenixcontact.com/in/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: Socket, 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

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

1998263

https://www.phoenixcontact.com/in/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: 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



1084159

https://www.phoenixcontact.com/in/products/1084159

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

2881007

https://www.phoenixcontact.com/in/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.

FL DIN-RAIL ADAPTER 22.5 - Mounting plate

1085485

https://www.phoenixcontact.com/in/products/1085485



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.



1084159

https://www.phoenixcontact.com/in/products/1084159

FL PANEL ADAPTER 22.5 - Mounting plate

1085488

https://www.phoenixcontact.com/in/products/1085488



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 clamp

0800886

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



End clamp, width: 9.5 mm, color: gray



1084159

https://www.phoenixcontact.com/in/products/1084159

FL RJ45 PROTECT CAP - Dust protection

2832991

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



Dust protection caps for RJ45 socket

FL CAT5 PATCH 0,5 - Patch cable

2832263

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



Patch cable, CAT5, assembled, 0.5 m



1084159

https://www.phoenixcontact.com/in/products/1084159

FL CAT5 PATCH 1,0 - Patch cable

2832276

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



Patch cable, CAT5, assembled, 1 m

FL CAT5 PATCH 2,0 - Patch cable

2832289

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



Patch cable, CAT5, assembled, 2 m



1084159

https://www.phoenixcontact.com/in/products/1084159

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

1411854

https://www.phoenixcontact.com/in/products/1411854



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/in/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



1084159

https://www.phoenixcontact.com/in/products/1084159

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

1408365

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



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 $_{\rm m}$

NBC-R4AC/1,0-93B/R4AC - Patch cable

1408968

https://www.phoenixcontact.com/in/products/1408968



Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET



1084159

https://www.phoenixcontact.com/in/products/1084159

NBC-R4AC/2,0-93B/R4AC - Patch cable

1408969

https://www.phoenixcontact.com/in/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/in/products/1408970



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



1084159

https://www.phoenixcontact.com/in/products/1084159

FOC-LC:PA-SC:PA-OM2:D01/1 - FO patch cable

1115607

https://www.phoenixcontact.com/in/products/1115607

Multi-mode OM2 duplex jumper, LC-SC, UPC polishing, length 1 m



FOC-LC:PA-SC:PA-OM2:D01/2 - FO patch cable

1115605

https://www.phoenixcontact.com/in/products/1115605

Multi-mode OM2 duplex jumper, LC-SC, UPC polishing, length 2 m





1084159

https://www.phoenixcontact.com/in/products/1084159

FOC-SC:PA-SC:PA-OM2:D01/1 - FO patch cable

1115536

https://www.phoenixcontact.com/in/products/1115536

Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 1 m $\,$



FOC-SC:PA-SC:PA-OM2:D01/2 - FO patch cable

1115535

https://www.phoenixcontact.com/in/products/1115535

Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 2 m





1084159

https://www.phoenixcontact.com/in/products/1084159

FOC-ST:PA-SC:PA-OM2:D01/1 - FO patch cable

1115574

https://www.phoenixcontact.com/in/products/1115574

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 1 $\rm m$



FOC-ST:PA-SC:PA-OM2:D01/2 - FO patch cable

1115573

https://www.phoenixcontact.com/in/products/1115573

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 2 m





1084159

https://www.phoenixcontact.com/in/products/1084159

FOC-LC:PA-SC:PA-OM4:D01/1 - FO patch cable

1115601

https://www.phoenixcontact.com/in/products/1115601

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 1 m



FOC-LC:PA-SC:PA-OM4:D01/2 - FO patch cable

1115600

https://www.phoenixcontact.com/in/products/1115600

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 2 m





1084159

https://www.phoenixcontact.com/in/products/1084159

FOC-SC:PA-SC:PA-OM4:D01/1 - FO patch cable

1115424

https://www.phoenixcontact.com/in/products/1115424

Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 1 m



FOC-SC:PA-SC:PA-OM4:D01/2 - FO patch cable

1115423

https://www.phoenixcontact.com/in/products/1115423

Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 2 m



Phoenix Contact 2023 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in