

1084159

https://www.phoenixcontact.com/us/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
Sales key	DN20
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/us/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

|--|

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

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

Product properties



1084159

https://www.phoenixcontact.com/us/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))
vitch 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
	Autonegotiation
	Store and Forward switching mode
ctrical properties	
Maximum power dissipation for nominal condition	5.856 W (at 24 V DC)
Transmission medium	Copper
upply	
Supply voltage (DC)	24 V DC
Supply voltage (AC)	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 mm²
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Max. current consumption	244 mA (at 9 V DC)
Typical current consumption	177 mA (at 24 V DC)

Connection data

Connection technology

Connection name	Power supply
pluggable	yes
Power supply	



1084159

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

Connection method	Push-in spring connection
Conductor cross section, rigid	0.2 mm² 2.5 mm²
Conductor cross section, flexible	0.2 mm² 2.5 mm²
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

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/us/products/1084159

Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	19170402
ECLASS-12.0	19170402
ECLASS-13.0	19170402
ETIM	
ETIM 9.0	EC000734
UNSPSC	

43222600



1084159

https://www.phoenixcontact.com/us/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"

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com