

2891110

https://www.phoenixcontact.com/in/products/2891110

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

Your advantages

- · QoS-prioritized (Quality of Service) messages
- RJ45 ports support a transmission speed of 10/100 Mbps
- Fiber-optic ports support 100 Mbps
- · Local diagnostic indicators with LEDs
- · The switch also offers cable locking and port blocking
- · Auto negotiation and autocrossing detection simplifies installation and setup

Commercial Data

Item number	2891110
Packing unit	1 pc
Minimum order quantity	1 рс
Note	Made to Order (non-returnable)
Sales Key	DNN
Product Key	DNN113
Catalog Page	Page 291 (C-6-2019)
GTIN	4046356100847
Weight per Piece (including packing)	501 g
Weight per Piece (excluding packing)	365 g
Customs tariff number	85176200
Country of origin	TW



2891110

https://www.phoenixcontact.com/in/products/2891110

Technical Data

Dimensions

Width	50 mm	
Height	120 mm	
Depth	70 mm	
Material specifications		
Material specifications		
Material specifications Housing material	Aluminum	

DIN rail mounting

Mounting

Mounting type

Interfaces

Ethernet (RJ45)	
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	7 (RJ45 ports)
No. of channels Fiber optic interface	7 (RJ45 ports)
	7 (RJ45 ports) ST
Fiber optic interface	
Fiber optic interface Connection method	ST
Fiber optic interface Connection method Transmission speed	ST 100 Mbps (full duplex)
Fiber optic interface Connection method Transmission speed Transmission physics	ST 100 Mbps (full duplex) multi-mode fiberglass
Fiber optic interface Connection method Transmission speed Transmission physics	ST 100 Mbps (full duplex) multi-mode fiberglass 2000 m (Fiberglass 50/125)

Product properties

Туре	Block design
Product type	Switch
Product family	Unmanaged Switch SFN
MTTF	67.3 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
sulation characteristics	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Protection class Switch functions	III (IEC 61140, EN 61140, VDE 0140-1)



2891110

https://www.phoenixcontact.com/in/products/2891110

Status and diagnostic indicators	LEDs: U _S , link and activity per port
Additional functions	Autonegotiation
Security functions	
Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3 store and forward switching mode
ectrical properties	
Local diagnostics	US Supply voltage Green LED
	LNK/ACT Link status/data transmission Green LED
	100 Data transmission speed Yellow LED
Maximum power dissipation for nominal condition	4.56 W
Test section	500 V DC 1 min.
Transmission medium	Copper
	FO
Supply	
Supply voltage (DC)	24 V DC
Supply voltage range	9 V DC 32 V DC
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm ²
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Residual ripple Typical current consumption onnection data	 3.6 V_{PP} (within the permitted voltage range) 190 mA (at U_S = 24 V DC)
Typical current consumption onnection data Connection technology	190 mA (at U _S = 24 V DC)
Typical current consumption	
Typical current consumption onnection data Connection technology	190 mA (at U _S = 24 V DC)
Typical current consumption onnection data Connection technology Connection name	190 mA (at U _S = 24 V DC)
Typical current consumption Onnection data Connection technology Connection name Power supply	190 mA (at U _S = 24 V DC) Power supply
Typical current consumption Onnection data Connection technology Connection name Power supply Connection method	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections
Typical current consumption Typical current consumption Connection data Connection technology Connection name Power supply Connection method Conductor cross section, rigid	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm² 2.5 mm²
Typical current consumption Typical current consumption Typical current consumption Typical current consumption Connection data Connection name Power supply Connection method Conductor cross section, rigid Conductor cross section, flexible	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm² 2.5 mm² 0.2 mm² 2.5 mm²
Typical current consumption Typical current consumption Typical current consumption Typical current consumption Connection data Connection name Connection name Conductor cross section, rigid Conductor cross section, flexible Conductor cross section AWG Stripping length	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm² 2.5 mm² 0.2 mm² 2.5 mm² 24 12
Typical current consumption Typical current consumption Typical current consumption Typical current consumption Connection data Connection name Connection name Conductor cross section, rigid Conductor cross section, flexible Conductor cross section AWG	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm² 2.5 mm² 0.2 mm² 2.5 mm² 24 12
Typical current consumption Typical current consumption Typical current consumption Typical current consumption Connection data Connection name Connection name Conductor cross section, rigid Conductor cross section, flexible Conductor cross section AWG Stripping length	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm² 2.5 mm² 0.2 mm² 2.5 mm² 24 12
Typical current consumption Typical current consumption Typical current consumption Typical current consumption Connection data Connection name Connection name Conductor cross section, rigid Conductor cross section, flexible Conductor cross section AWG Stripping length Context and real-life conditions	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm² 2.5 mm² 0.2 mm² 2.5 mm² 24 12
Typical current consumption Typical current cu	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm ² 2.5 mm ² 0.2 mm ² 2.5 mm ² 24 12 7 mm
Typical current consumption Typical current consumption Typical current consumption Typical current consumption Tornection data Connection name Connection name Conductor cross section, rigid Conductor cross section, flexible Conductor cross section AWG Conductor cross section AWG Stripping length Typical and real-life conditions Conductor conditions Degree of protection	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm² 2.5 mm² 0.2 mm² 2.5 mm² 24 12 7 mm IP20
Typical current consumption Typical current consumption Typical current consumption Typical current consumption Typical current consolution Connection name Connection name Connection method Conductor cross section, rigid Conductor cross section, flexible Conductor cross section AWG Stripping length Typical conditions Degree of protection Ambient temperature (operation)	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm ² 2.5 mm ² 0.2 mm ² 2.5 mm ² 0.2 mm ² 2.5 mm ² 24 12 7 mm IP20 0 °C 60 °C
Typical current consumption onnection data connection technology Connection name Power supply Connection method Conductor cross section, rigid Conductor cross section, flexible Conductor cross section AWG Stripping length Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport)	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm² 2.5 mm² 0.2 mm² 2.5 mm² 24 12 7 mm IP20 0 °C 60 °C -20 °C 70 °C
Typical current consumption Typical current consolution Typical current consolutions Typical current current consolutions Typical current consolutions Typical current consolutions Typical current current consolutions Typical current current consolutions Typical current current current consolutions Typical current c	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm² 2.5 mm² 0.2 mm² 2.5 mm² 24 12 7 mm IP20 0 °C 60 °C -20 °C 70 °C 5 % 95 % (non-condensing)
Typical current consumption onnection data connection technology Connection name Power supply Conductor cross section, rigid Conductor cross section, flexible Conductor cross section AWG Stripping length Ambient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (storage/transport)	190 mA (at U _S = 24 V DC) Power supply Pluggable COMBICON screw connections 0.2 mm ² 2.5 mm ² 0.2 mm ² 2.5 mm ² 0.2 mm ² 2.5 mm ² 24 12 7 mm IP20 0 °C 60 °C -20 °C 70 °C 5 % 95 % (non-condensing) 5 % 95 % (non-condensing)



2891110

https://www.phoenixcontact.com/in/products/2891110

Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Sulfur dioxide (SO ₂) 10 ±0.3 cm^3/m^3 , hydrogen sulfide (H ₂ S) 1 ±0.3 cm^3/m^3 , at 25°C and 75% humidity and exposure of four days
andards and regulations	
Free from substances that could impair the application of coating	In acc. with VW specification
/IC data	
Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
	IEC 61000-4-3 (immunity to radiated interference) Criterion A
	IEC 61000-4-4 (burst) Criterion B
	IEC 61000-4-5 (surge) Criterion B
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
	IEC 61000-4-8 (immunity to magnetic fields) Criterion A
	EN 55022 (emitted interference) Criterion A
Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4

System properties

Functionality		
Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode	

Signaling



2891110

https://www.phoenixcontact.com/in/products/2891110

Appro	Approvals			
ERC	EAC Approval ID: RU*-DE.*.B.00741/19			
@	UL Listed Approval ID: FILE E 140324			
۹	CUL Listed Approval ID: FILE E 140324			
.	CUL Listed Approval ID: FILE E 238705			
	UL Listed Approval ID: FILE E 238705			
•	CUL Listed Approval ID: FILE E 199827			
	UL Listed Approval ID: FILE E 199827			
	UL Listed Approval ID: FILE E 196811			
•	CUL Listed Approval ID: FILE E 196811			



2891110

https://www.phoenixcontact.com/in/products/2891110

Classifications

ECLASS

	ECLASS-11.0	19170402	
ET	ETIM		
	ETIM 8.0	EC000734	
UNSPSC			
	UNSPSC 21.0	43222600	



2891110

https://www.phoenixcontact.com/in/products/2891110

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



2891110

https://www.phoenixcontact.com/in/products/2891110

Accessories

MSTB 2,5/ 4-ST - PCB connector

1754481 https://www.phoenixcontact.com/in/products/1754481



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, 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

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.



2891110

https://www.phoenixcontact.com/in/products/2891110

FL SEC PAC 4TX - Port Guard Security Element

2832865

https://www.phoenixcontact.com/in/products/2832865

Layer1 security elements for 4 RJ45 network connections for use with patch boxes and panels



FL DIN RA - DIN rail adapter

2891053 https://www.phoenixcontact.com/in/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.





2891110

https://www.phoenixcontact.com/in/products/2891110

FL RJ45 PROTECT CAP - Dust protection

2832991

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



Dust protection caps for RJ45 socket

E/NS 35 N - End clamp

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



End clamp, width: 9.5 mm, color: gray



2891110

https://www.phoenixcontact.com/in/products/2891110

FL CAT5 PATCH 0,5 - Patch cable

2832263

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

Patch cable, CAT5, assembled, 0.5 m



FL CAT5 PATCH 1,0 - Patch cable

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



Patch cable, CAT5, assembled, 1 m



2891110

https://www.phoenixcontact.com/in/products/2891110

FL CAT5 PATCH 2,0 - Patch cable

2832289

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

Patch cable, CAT5, assembled, 2 m



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



2891110

https://www.phoenixcontact.com/in/products/2891110

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

1408360

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

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

1408365

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



2891110

https://www.phoenixcontact.com/in/products/2891110

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

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



2891110

https://www.phoenixcontact.com/in/products/2891110

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

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 m





2891110

https://www.phoenixcontact.com/in/products/2891110

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



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

1115560 https://www.phoenixcontact.com/in/products/1115560

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





2891110

https://www.phoenixcontact.com/in/products/2891110

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

1115557

https://www.phoenixcontact.com/in/products/1115557

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



FOC-LC:PA-ST:PA-OM2:D01/1 - Fiber optic cable

1115588 https://www.phoenixcontact.com/in/products/1115588

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





2891110

https://www.phoenixcontact.com/in/products/2891110

FOC-LC:PA-ST:PA-OM2:D01/2 - Fiber optic cable

1115587

https://www.phoenixcontact.com/in/products/1115587

Multi-mode OM2 duplex jumper, LC-ST, 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