FL SWITCH 1001T-4POE - Industrial Ethernet Switch

2891064

https://www.phoenixcontact.com/gb/products/2891064

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PoE+ Ethernet switch conforms to IEEE 802.3at. Includes four PoE+ ports and one standard RJ45 port, all with 10/100 Mbps speeds.

Your advantages

- Wide-range power supply of 18 ... 57 V DC
- Autocrossing
- Wide -40° ... +75°C temperature range
- Redundant power supply
- POE status LED per port
- Auto negotiation
- Automatic detection of IEEE 802.3at or 802.3af powered devices

Commercial data

Item number	2891064
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNN115
Product key	DNN115
Catalog page	Page 302 (C-6-2019)
GTIN	4046356764322
Weight per piece (including packing)	753.5 g
Weight per piece (excluding packing)	685 g
Customs tariff number	85176200
Country of origin	TW

Technical data

Dimensions

Width	55 mm
Height	117 mm
Depth	78 mm

Notes

General	Mode B PoE

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area

Material specifications

Housing material	Aluminum

Mounting

Mounting type	DIN rail mounting

Interfaces

Ethernet

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Ethernet RJ45
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, 100, POE
No. of channels	1 (RJ45 port)

Ethernet (PoE)

Connection method	RJ45
Transmission speed	10/100 Mbps
Transmission physics	Ethernet RJ45
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, 100, POE
No. of channels	4 (RJ45 ports)

Product properties

Type	Stand-Alone
Product type	Switch
Product family	Unmanaged PoE Switches 1000
MTTF	68 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Switch functions

Basic functions	PSE, complies with IEEE 802.3at
Signal contact control voltage	24 V DC
Signal contact control current	100 mA
Status and diagnostic indicators	LEDs: U_{S1}, U_{S2} (redundant voltage supply), Alarm (alarm contact), Link/Activity and PoE per Ethernet port
Additional functions	Autonegotiation

Security functions

Basic functions	PSE, complies with IEEE 802.3at

Electrical properties

Power consumption	129 W
Local diagnostics	US1, US2 Supply voltage Green LED
	PoE PoE detection Yellow LED
	LNK/ACT Link status/data transmission Green LED
	Alarm Power failure at US1 or US2/Link failure
Maximum power dissipation for nominal condition	129.6 W
Test section	Supply voltage/functional ground 500 V AC 1 min.
Transmission medium	Copper

Supply

Supply voltage (DC)	24 V DC
Supply voltage range	18 V DC ... 57 V DC
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm²
Inrush current	18 A (57 V DC for 100 μs)
	10 A (24 V DC for 100 μs)
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Max. current consumption	6.2 A (Maximum, nominal load)
Typical current consumption	148 mA (at U_S = 24 V DC)

Function

Signal contact control voltage	24 V DC
Signal contact control current	100 mA

Connection data

Connection technology

Connection name	Power supply
pluggable	yes

Power supply

Connection method	Screw 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

Stripping length	7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	86 kPa ... 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)

EMC 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
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC

System properties

Functionality

Basic functions	PSE, complies with IEEE 802.3at

Signaling

Status display	LEDs: U_{S1}, U_{S2} (redundant voltage supply), Alarm (alarm contact), Link/Activity and PoE per Ethernet port

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2891064

EAC
Approval ID: RU *-DE.A*08.B.00739

UL Listed
Approval ID: FILE E 140324

cUL Listed
Approval ID: FILE E 140324

KC
Approval ID: MSIP-REI-PCK-2891064

cULus Listed

Classifications

ECLASS

ECLASS-11.0	19170402
ECLASS-12.0	19170402
ECLASS-13.0	19170402

ETIM

ETIM 8.0	EC000734

UNSPSC

UNSPSC 21.0	43222600

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"

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Accessories

MSTB 2,5/ 7-ST - PCB connector

1754546

https://www.phoenixcontact.com/gb/products/1754546

PCB connector, nominal cross section: 2.5 mm^2, color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 7, number of rows: 1, number of positions: 7, number of connections: 7, 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

QUINT4-PS/1AC/48DC/5 - Power supply unit

2904610

https://www.phoenixcontact.com/gb/products/2904610

Primary-switched QUINT POWER power supply for DIN rail mounting with free choice of output characteristic curve and SFB (Selective Fuse Breaking) technology, input: 1-phase, output: 48 V DC / 5 A

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QUINT4-PS/1AC/48DC/10 - Power supply unit

2904611

https://www.phoenixcontact.com/gb/products/2904611

Primary-switched QUINT POWER power supply for DIN rail mounting with free choice of output characteristic curve and SFB (Selective Fuse Breaking) technology, input: 1-phase, output: 48 V DC / 10 A

TRIO-PS-2G/1AC/48DC/5 - Power supply unit

2903159

https://www.phoenixcontact.com/gb/products/2903159

Primary-switched TRIO power supply for DIN rail mounting, input: 1-phase, output: 48 V DC / 5 A, dynamic boost, tool-free fast connection technology for solid and stranded conductors with ferrule

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TRIO-PS-2G/1AC/48DC/10 - Power supply unit

2903160

https://www.phoenixcontact.com/gb/products/2903160

Primary-switched TRIO POWER power supply with push-in connection for DIN rail mounting, input: single phase, output: 48 V DC/10 A

UNO-PS/1AC/24DC/150W - Power supply unit

2904376

https://www.phoenixcontact.com/gb/products/2904376

Primary-switched UNO power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/150 W

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UNO-PS/1AC/24DC/240W - Power supply unit

2904372

https://www.phoenixcontact.com/gb/products/2904372

Please use the following item in new systems: 1096432.
Primary-switched UNO power supply for DIN rail mounting, input: 1-phase,
output: 24 V DC / 240 W

FL PD 1001 T GT - Ethernet module

2891042

https://www.phoenixcontact.com/gb/products/2891042

Factoryline Power over Ethernet splitter (PD) for separating power and data
according to IEEE 802.3af and at, no configuration required, can be used with
10, 100, 1000 Mbps networks, 24 V DC output voltage

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

2881007

https://www.phoenixcontact.com/gb/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 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

https://www.phoenixcontact.com/gb/products/1411854
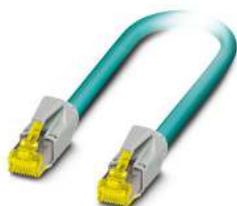
Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6$_A$, cable outlet: straight, Ethernet

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

1408360
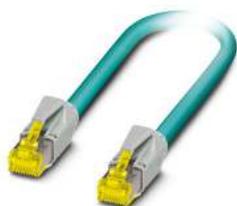
https://www.phoenixcontact.com/gb/products/1408360

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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2891064

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

1408365

https://www.phoenixcontact.com/gb/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

FL DIN RA - DIN rail adapter

2891053

https://www.phoenixcontact.com/gb/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.

FL RJ45 PROTECT CAP - Dust protection

2832991

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

Dust protection caps for RJ45 socket

E/NS 35 N - End clamp

0800886

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

End clamp, width: 9.5 mm, color: gray

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