

# Industrial Ethernet Switch - FL SWITCH 1001T-4POE - 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

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



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 764322
GTIN	4046356764322

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

Width	55 mm
Height	117 mm
Depth	78 mm

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C

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## Technical data

### Ambient conditions

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)

### Interfaces

Interface	Ethernet
No. of ports	1 (RJ45 ports)
Note on the connection method	Auto negotiation and autocrossing
Transmission physics	Ethernet RJ45
Transmission speed	10/100 Mbps
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, 100, POE
Interface	Ethernet (PoE)
No. of ports	4 (RJ45 ports)
Connection method	RJ45 jack
Transmission physics	Ethernet RJ45
Transmission speed	10/100 Mbps
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, 100, POE

### Function

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

### Network expansion parameters

Maximum conductor length (twisted pair)	100 m
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### Supply voltage

Supply voltage	24 V DC
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Supply voltage range	18 V DC ... 57 V DC
Typical current consumption	148 mA (at U <sub>S</sub> = 24 V DC)
Max. current consumption	6.2 A (Maximum, nominal load)
Inrush current	18 A (57 V DC for 100 μs)

### General

Mounting type	DIN rail
Type AX	Stand-alone

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## Technical data

### General

Net weight	754.5 g
Housing material	Aluminum
Note	Mode B PoE
MTTF	68 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

### Connection data

Connection method	COMBICON plug-in screw terminal block
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	5g, 150 Hz, Criterion 3
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	25g, 11 ms half-sine shock pulse

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 10.0.1	19170402
eCl@ss 4.0	24010500
eCl@ss 4.1	24010500
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170100
eCl@ss 7.0	19170106
eCl@ss 8.0	19170106
eCl@ss 9.0	19170106

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## Classifications

### ETIM

ETIM 3.0	EC000734
ETIM 4.0	EC000734
ETIM 5.0	EC000734
ETIM 6.0	EC000734
ETIM 7.0	EC000734

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43222612
UNSPSC 18.0	43222612
UNSPSC 19.0	43222612
UNSPSC 20.0	43222612
UNSPSC 21.0	43222612

## Approvals


### Approvals


#### Approvals

UL Listed / cUL Listed / EAC / KC / cULus Listed

#### Ex Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
mm <sup>2</sup> /AWG/kcmil		30-14	

cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
mm <sup>2</sup> /AWG/kcmil		30-14	

# Industrial Ethernet Switch - FL SWITCH 1001T-4POE - 2891064

## Approvals

EAC		RU *- DE.A*08.B.00739
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KC		<a href="http://eng.kcc.go.kr/user/ehpMain.do">http://eng.kcc.go.kr/user/ehpMain.do</a>	MSIP-REI- PCK-2891064
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cULus Listed		
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## Accessories

### Accessories

#### Data cable preassembled

Patch cable - NBC-R4AC-R4AC-IE8A/.../... - 1411854



Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, cable outlet: straight

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/2,0 - 1408360



Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/3,0 - 1408365



Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

## End block

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## Accessories

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

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## Mounting rail adapter

DIN rail adapter - FL DIN RA - 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.

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## Patch cable

Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m

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Patch cable - FL CAT5 PATCH 1,0 - 2832276



Patch cable, CAT5, assembled, 1 m

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Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2 m

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## PCB plug

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## Accessories

Printed-circuit board connector - MSTB 2,5/ 7-ST - 1754546



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm<sup>2</sup>, number of positions: 7, pitch: 5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

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## Power over Ethernet devices

Ethernet module - FL PD 1001 T GT - 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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## Power supply

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

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

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

Power supply unit - TRIO-PS-2G/1AC/48DC/10 - 2903160



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

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Power supply unit - UNO-PS/1AC/24DC/150W - 2904376



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

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Power supply unit - UNO-PS/1AC/24DC/240W - 2904372



Primary-switched UNO power supply for DIN rail mounting, input: single-phase, output: 24 V DC/240 W

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### Protective cap

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket

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### Surge protection for information technology

Surge protection device - DT-LAN-CAT.6+ - 2881007



Surge protection in accordance with Class E<sub>A</sub> (CAT6<sub>A</sub>), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE+) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

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