

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

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

### Product Features

- 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 AC/DC
- POE status LED per port



**Ethernet**

### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	900.0 g
Custom tariff number	85176200
Country of origin	Taiwan

### Technical data

#### Dimensions

Width	55 mm
Height	117 mm
Depth	78 mm

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

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## Technical data

### Ambient conditions

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 1	Ethernet
No. of ports	5 (4x POE ports, 1x 10/100 port)
Connection method	RJ45 socket
Transmission physics	Ethernet RJ45
Transmission speed	10/100 MBit/s
Transmission length	100 m (Between transmitter / receiver)
Signal LEDs	LNK/ACT, 100, POE

### Function

Basic functions	PSE, complies with IEEE 802.3at
Status and diagnostic indicators	LEDs: $U_{S1}$ , $U_{S2}$ (redundant voltage supply); alarm; LNK/ACT, POE, 100 Mbps per port
Signal contact control voltage	250 V AC
Signal contact control current	1 A

### 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	6.2 A (at $U_S = 24$ V DC)
	2.7 A (at $U_S = 48$ V DC)
Inrush surge current	18 A (57 V DC for 100 $\mu$ s)

### General

Mounting type	DIN rail
Type AX	Stand-alone
Net weight	685 g
Housing material	Aluminum

### Connection data

Connection method	Pluggable COMBICON screw connections,
Conductor cross section solid min.	0.2 mm <sup>2</sup>

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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
Developed in acc. with standard	IEC 61000-6.2
Test standard	IEC 61000-4-2 (ESD)
Test result	Criterion B
Test standard	IEC 61000-4-3 (immunity to radiated interference)
Test result	Criterion A
Test standard	IEC 61000-4-4 (burst)
Test result	Criterion B
Test standard	IEC 61000-4-5 (surge)
Test result	Criterion B
Test standard	IEC 61000-4-6 (immunity to conducted interference)
Test result	Criterion A
Test standard	IEC 61000-4-8 (immunity to magnetic fields)
Test result	Criterion A
Test standard	EN 55022 (emitted interference)
Test result	Criterion A
Test section	Supply voltage/functional earth ground 500 V AC 1 min.
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

## Classifications

### eCl@ss

eCl@ss 4.0	24010504
eCl@ss 4.1	24010504
eCl@ss 5.0	19030117
eCl@ss 5.1	19030117
eCl@ss 6.0	19170106

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## Classifications

### eCl@ss

eCl@ss 7.0	19170106
eCl@ss 8.0	19170106

### ETIM

ETIM 3.0	EC000734
ETIM 4.0	EC000734
ETIM 5.0	EC000734

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43201410

## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / EAC / KC

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#### Ex Approvals

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#### Approvals submitted

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## Approval details

UL Listed	
mm <sup>2</sup> /AWG/kcmil	30-14

cUL Listed	
mm <sup>2</sup> /AWG/kcmil	30-14

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### Approvals

EAC

EAC

KC