

## Industrial Ethernet Switch - FL SWITCH SFNT 16TX - 2891952

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High temperature Ethernet switch, 16 TP RJ45 ports, automatic detection of data transmission speed of 10/ 100 Mbps (RJ45), autocrossing function

### Product Description

Standard function Ethernet switch with 16 RJ45 ports for extreme environments (-40°C ... +75°C). Provides automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function, 12 V DC ... 48 V DC input voltage, redundant power supply capable with remote alarming.

### Why buy this product

- ✓ Devices are available for standard temperature range (0°C ... +60°C) and wide temperature range (-40°C ... +75°C)
- ✓ 16 ports in narrow metal housing with redundant input voltage
- ✓ Auto negotiation and autocrossing detection simplifies installation and setup
- ✓ Security options with cable locking
- ✓ Local diagnostic indicators with LEDs
- ✓ RJ45 ports support a transmission speed of 10/100 Mbps; fiber optic ports support 100 Mbps



### Key Commercial Data

|                                      |             |
|--------------------------------------|-------------|
| Packing unit                         | 1 STK       |
| Weight per Piece (excluding packing) | 1,260.000 g |
| Custom tariff number                 | 85176200    |
| Country of origin                    | Taiwan      |

### Technical data

#### Note

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

#### Dimensions

|        |        |
|--------|--------|
| Width  | 70 mm  |
| Height | 135 mm |

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### Dimensions

|       |        |
|-------|--------|
| Depth | 110 mm |
|-------|--------|

### 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)                 | 62 kPa ... 108 kPa (up to 4160 m above mean sea level) |
| Air pressure (storage/transport)         | 62 kPa ... 108 kPa (up to 4160 m above mean sea level) |

### Interfaces

|                               |                                   |
|-------------------------------|-----------------------------------|
| Interface 1                   | Ethernet (RJ45)                   |
| No. of ports                  | 16 (RJ45 ports)                   |
| Connection method             | RJ45                              |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission physics          | Ethernet in RJ45 twisted pair     |
| Transmission speed            | 10/100 Mbps                       |
| Transmission length           | 100 m (per segment)               |

### Function

|                                  |  |
|----------------------------------|--|
| Basic functions                  | Unmanaged switch / auto negotiation, complies with IEEE 802.3, store-and-forward switching mode, includes alarm contacts |
| Status and diagnostic indicators | LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), link and activity per port, voltage alarm            |
| Signal contact control voltage   | 24 V DC  |
| Signal contact control current   | 1 A  |

### Network expansion parameters

|   |  |
|---|--|
| Cascading depth                         | Network, linear, and star structure: any |
| Maximum conductor length (twisted pair) | 100 m                                    |

### Supply voltage

|                             |  |
|-----------------------------|--|
| Supply voltage              | 24 V DC (Hazardous locations)                            |
| Residual ripple             | 3.6 V <sub>PP</sub> (within the permitted voltage range) |
| Supply voltage range        | 12 V DC ... 48 V DC (Ordinary locations)                 |
| Typical current consumption | 350 mA (at U <sub>S</sub> = 24 V DC)                     |
| Max. current consumption    | 700 mA (at 12 V DC)                                      |

### General

|               |          |
|---------------|----------|
| Mounting type | DIN rail |
|---------------|----------|

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### General

|                  |              |
|------------------|--------------|
| Type AX          | Block design |
| Net weight       | 1191.5 g     |
| Housing material | Aluminum     |

### Standards and Regulations

|                                 |  |
|---------------------------------|--|
| Electromagnetic compatibility   | Conformance with EMC Directive 2004/108/EC |
| Developed in acc. with standard | IEC 61000-6.2                              |
| Noise emission                  | EN 61000-6-4                               |
| Noise immunity                  | EN 61000-6-2                               |
| Shock                           | 25g, in accordance with IEC 60068-2-27     |
| Vibration (operation)           | in acc. with IEC 60068-2-6: 5g, 150 Hz     |
| Conformance                     | CE-compliant                               |
| ATEX                            | # II 3 G Ex nA nC IIC T4 Gc                |
| IECEX                           | Ex nA nC IIC T4 Gc                         |
| UL, USA/Canada                  | Class I, Div. 2, Groups A, B, C, D         |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## 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 |
| eCl@ss 7.0 | 19170106 |
| eCl@ss 8.0 | 19170106 |
| eCl@ss 9.0 | 19170106 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000734 |
| ETIM 4.0 | EC000734 |
| ETIM 5.0 | EC000734 |
| ETIM 6.0 | EC000734 |

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## Classifications

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172901 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201410 |
| UNSPSC 13.2   | 43201410 |

## Approvals

### Approvals






#### Approvals

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

#### Ex Approvals

UL Listed / cUL Listed / IECEx / ATEX / cULus Listed

### 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            |
| 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            |
| EAC          |  |   | EAC-Zulassung            |
| EAC          |  |   | RU *-<br>DE.A*30.B.01735 |
| cULus Listed |  |   |                          |

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### Accessories

#### Accessories

#### Patch cable

Patch cable - FL CAT5 PATCH 0,3 - 2832250



Patch cable, CAT5, assembled, 0.3 m

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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 1,5 - 2832221



Patch cable, CAT5, assembled, 1.5 m

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Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2 m

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### Accessories

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Patch cable - FL CAT5 PATCH 3,0 - 2832292



Patch cable, CAT5, assembled, 3 m

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Patch cable - FL CAT5 PATCH 5,0 - 2832580



Patch cable, CAT5, assembled, 5 m

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Patch cable - FL CAT5 PATCH 7,5 - 2832616



Patch cable, CAT5, assembled, 7.5 m

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Patch cable - FL CAT5 PATCH 10,0 - 2832629



Patch cable, CAT5, assembled, 10 m

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### Protective cap

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket

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