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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Industrial Ethernet Switch - FL SWITCH SFNB 4TX/FX - 2891027

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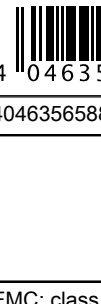
Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

## Why buy this product

- Auto negotiation and autocrossing detection simplifies installation and setup
- 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  |
| GTIN         | <br>4 046356 588089 |
| GTIN         | 4046356588089  |

## Technical data

### Note

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

### Dimensions

|        |        |
|--------|--------|
| Width  | 28 mm  |
| Height | 110 mm |
| Depth  | 70 mm  |

### Ambient conditions

|  |   |
|--|---|
| Degree of protection                     | IP20  |
| Ambient temperature (operation)          | 0 °C ... 60 °C                                    |
| Ambient temperature (storage/transport)  | -20 °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 (up to 1500 m above sea level) |

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## Technical data

### Ambient conditions

|                                  |   |
|----------------------------------|---|
| Air pressure (storage/transport) | 66 kPa ... 108 kPa (up to 3500 m above sea level) |
|----------------------------------|---|

### Interfaces

|                               |  |
|-------------------------------|--|
| Interface 1                   | Ethernet (RJ45)  |
| No. of ports                  | 4 (RJ45 ports)   |
| Note on the connection method | Auto negotiation and autocrossing                      |
| Transmission physics          | Ethernet in RJ45 twisted pair                          |
| Transmission speed            | 10/100 Mbps  |
| Interface 2                   | Fiber optic interface                                  |
| No. of ports                  | 1 (SC multi-mode)                                      |
| Transmission physics          | multi-mode fiberglass                                  |
| Transmission speed            | 100 Mbps (full duplex)                                 |
| Transmission length           | 12.1 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000) |
| Wavelength                    | 1310 nm  |

### Function

|                                  |   |
|----------------------------------|---|
| Basic functions                  | Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode |
| Additional functions             | Autonegotiation   |
| Status and diagnostic indicators | LEDs: U <sub>S</sub> , link and activity per port   |

### 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  |
| Residual ripple             | 3.6 V <sub>PP</sub> (within the permitted voltage range) |
| Supply voltage range        | 12 V DC ... 48 V DC                                      |
| Typical current consumption | 185 mA (at U <sub>S</sub> = 24 V DC)                     |

### General

|                  |              |
|------------------|--------------|
| Mounting type    | DIN rail     |
| Type AX          | Block design |
| Net weight       | 267 g        |
| Housing material | Aluminum     |

### Standards and Regulations

|                               |  |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Noise emission                | EN 61000-6-4                               |
| Noise immunity                | EN 61000-6-2                               |
| UL, USA/Canada                | Class I, Div. 2, Groups A, B, C, D         |

### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

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## Technical data

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 10;   |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Approvals

### Approvals

#### Approvals

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

#### Ex Approvals

UL Listed / cUL Listed / 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 |
|-----|--|--|--------------------------|

|    |  |   |                          |
|----|--|---|--------------------------|
| KC |  | <a href="http://eng.kcc.go.kr/user/ehpMain.do">http://eng.kcc.go.kr/user/ehpMain.do</a> | KCC-REI-<br>PCK-FL289102 |
|----|--|---|--------------------------|

|              |  |  |  |
|--------------|--|--|--|
| cULus Listed |  |  |  |
|--------------|--|--|--|

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PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>