

# FL SWITCH 7006/2FX-EIP - Industrial Ethernet Switch



2701419

<https://www.phoenixcontact.com/us/products/2701419>

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## Your advantages

- Common Industrial Protocol (CIP)
- DHCP client, DHCP server (pool-based and port-based), DHCP option 82
- VLANs
- Device Level Ring (DLR)
- Ambient temperature -40 °C ... 70 °C
- RSTP with fast switch-over
- Web-based management, SNMP
- Slim design

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2701419       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN17          |
| Product key                          | DNN122        |
| GTIN                                 | 4046356749749 |
| Weight per piece (including packing) | 1,150.9 g     |
| Weight per piece (excluding packing) | 990 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | DE            |

## Technical data

### Dimensions

|        |          |
|--------|----------|
| Width  | 60 mm    |
| Height | 130 mm   |
| Depth  | 135.5 mm |

### Mounting

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

### Interfaces

#### Ethernet (RJ45)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Connection method             | RJ45                              |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission speed            | 10/100 Mbps                       |
| Transmission physics          | Copper                            |
| Transmission length           | 100 m (per segment)               |
| Signal LEDs                   | Data receive, link status         |
| No. of channels               | 6 (RJ45 ports)                    |

#### Ethernet FO

|                      |   |
|----------------------|---|
| Connection method    | SC  |
| Transmission speed   | 100 Mbps (full duplex)  |
| Transmission physics | multi-mode fiberglass   |
| Transmission length  | 11000 m (fiberglass with F-G 62.5/125 0.7 dB/km F1000)<br>6400 m (fiberglass with F-G 50/125 0.7 dB/km F1200)<br>3000 m (fiberglass with F-G 62.5/125 2.6 dB/km F600)<br>2800 m (fiberglass with F-G 50/125 1.6 dB/km F800) |
| Wavelength           | 1300 nm   |
| Signal LEDs          | Data receive, link status   |
| No. of channels      | 2 (SC multi-mode)   |

### Product properties

|                    |   |
|--------------------|---|
| Product type       | Switch  |
| Product family     | Managed Switch 7000   |
| Type               | Book type   |
| MTTF               | 133.47 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)<br>71.48 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)<br>10.48 Years (SN 29500 standard, temperature 70°C, operating cycle 100%) |
| Special properties | EtherNet/IP™  |

### Insulation characteristics

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|                  |                           |
|------------------|---------------------------|
| Protection class | III (VDE 0106, IEC 60536) |
|------------------|---------------------------|

## Switch functions

|                                  |  |
|----------------------------------|--|
| Diagnostic functions             | Remanente Event-Table  |
|                                  | RMON History   |
|                                  | N:1-Portmirroring  |
|                                  | LLDP (Link Layer Discovery Protocol)   |
|                                  | SNMP-Traps   |
|                                  | ACD (Address Conflict Detection)   |
| EtherNet/IP™ supported protocols | Common Industrial Protocol   |
| Basic functions                  | Store-and-forward switch, complies with IEEE 802.3   |
| Signal contact control voltage   | 24 V DC (typical)  |
| Signal contact control current   | 1 A (maximum)  |
| PROFINET conformance class       | Conformance Class A  |
| PROFINET device function         | Fast Startup   |
| Filter functions                 | Quality of Service (8 priority classes)  |
|                                  | Port-Priorisierung   |
|                                  | VLAN (up to 32 VLANs)  |
|                                  | IGMP Snooping/Querier (v1/v2)  |
|                                  | Auto-Query-Port  |
|                                  | Extended Multicast Filtering   |
|                                  | Static Multicast Filtering (32 groups)   |
|                                  | Link Aggregation (up to 4 trunks)  |
| IP parameterization              | DHCP client  |
|                                  | DHCP Option 82 (Relay Agent)   |
|                                  | DHCP server (pool-based, port-based)   |
|                                  | BootP  |
| MAC address table                | 16k  |
| Management                       | Web-based management (HTTP/HTTPS)  |
|                                  | SNMPv1/v2/v3   |
| Redundancy                       | DLR (Device Level Ring)  |
|                                  | RSTP (Rapid Spanning Tree Protocol)  |
|                                  | FRD (Fast Ring Detection)  |
|                                  | Large Tree Support   |
| Status and diagnostic indicators | LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link and switchable Activity/Speed/Duplex)<br>EtherNet/IP™ status LED: Net, Mod |
| Additional functions             | MAC-based Port-Security  |
| Time synchronization             | PTP 1588 (Transparent clock on the DLR ports)  |

## Security functions

|                 |  |
|-----------------|--|
| Basic functions | Store-and-forward switch, complies with IEEE 802.3 |
|-----------------|--|

## Electrical properties

|                   |        |
|-------------------|--------|
| Power consumption | 11.3 W |
|-------------------|--------|

|   |   |
|---|---|
| Local diagnostics                               | US1/2 Supply voltage US1, US2 Green LED |
|   | FAIL Div. LED red                       |
|   | LINK Link status Green LED              |
| Maximum power dissipation for nominal condition | 11.3 W                                  |
| Test section                                    | 500 V DC 1 min                          |
| Transmission medium                             | Copper                                  |
|   | FO                                      |

## Supply

|                             |  |
|-----------------------------|--|
| Supply voltage (DC)         | 24 V DC (redundant)  |
| Supply voltage range        | 12 V DC ... 58 V DC  |
| Power supply connection     | Via COMBICON, max. conductor cross-section 2.5 mm <sup>2</sup> |
| Residual ripple             | 3.6 V <sub>pp</sub> (within the permitted voltage range)       |
| Typical current consumption | 405 mA (at U <sub>S</sub> = 24 V DC)                           |

## Function

|                                |                   |
|--------------------------------|-------------------|
| Signal contact control voltage | 24 V DC (typical) |
| Signal contact control current | 1 A (maximum)     |

## Connection data

|                                   |   |
|-----------------------------------|---|
| Connection method                 | Screw connection                            |
| Conductor cross-section, rigid    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| 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 ... 70 °C                            |
| Ambient temperature (storage/transport)  | -40 °C ... 85 °C                            |
| Permissible humidity (operation)         | 10 % ... 95 % (non-condensing)              |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing)              |
| Vibration (operation)                    | in acc. with IEC 60068-2-6: 5g, 150 Hz      |
| 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) |

## Standards and regulations

|   |     |
|---|-----|
| Free from substances that could impair the application of coating | Yes |
|---|-----|

## Approvals

### Conformity/Approvals

|                  |                                  |
|------------------|----------------------------------|
| Noxious gas test | ISA S71.04.2013 G3 Harsh Group A |
|------------------|----------------------------------|

## EMC data

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|                                 |  |
|---------------------------------|--|
| Electromagnetic compatibility   | Conformance with EMC Directive 2004/108/EC                                   |
| Conformance with EMC directives | IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B                                |
|                                 | IEC 61000-6-2 EN 61000-4-3 (electromagnetic fields) Criterion A              |
|                                 | IEC 61000-6-2 IEC 61000-4-4 (burst) Criterion A                              |
|                                 | IEC 61000-6-2 IEC 61000-4-5 (surge) Criterion A                              |
|                                 | IEC 61000-6-2 IEC 61000-4-6 (immunity to conducted interference) Criterion A |
| Noise immunity                  | EN 61000-6-2:2005  |

#### Noise emission

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-6-4 |
|-----------------------|--------------|

### System properties

#### Functionality

|                 |  |
|-----------------|--|
| Basic functions | Store-and-forward switch, complies with IEEE 802.3 |
|-----------------|--|

#### Signaling

|                |  |
|----------------|--|
| Status display | LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link and switchable Activity/Speed/Duplex)<br>EtherNet/IP™ status LED: Net, Mod |
|----------------|--|

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43222600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                           |
|---|---------------------------|
| Fulfills EU RoHS substance requirements | Yes                       |
| Exemption                               | 15(a), 6(c), 7(a), 7(c)-I |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 38ebcb33-144e-4f0a-a5eb-d780d1052ef5 |

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