

# FL SWITCH EP7216-16GSFP-LV - Industrial Ethernet Switch



1688989

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Managed Switch EP7000 series, 16 RJ45 ports 10/100/1000 Mbps, 16 SFP ports 100/1000 Mbps, degree of protection: IP20, Ambient temperature (operation): -40 °C ... 85 °C, Supply voltage range: 10 V DC ... 36 V DC



## Product description

Developed according to IEC 61850-3 (Ambient conditions)

## Your advantages

- Network structure according to IEC 61850
- IEEE 1613
- Layer 2 and Lite Layer 3 functions
- 32-port rackmount switch
- IEEE 1588 v2 precision timing support

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1688989       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN36          |
| Product key                          | DNN511        |
| GTIN                                 | 4067923249202 |
| Weight per piece (including packing) | 9,020 g       |
| Weight per piece (excluding packing) | 6,070 g       |
| Country of origin                    | CA            |

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## Technical data

### Dimensions

|        |           |
|--------|-----------|
| Width  | 443.56 mm |
| Height | 44.2 mm   |
| Depth  | 414.95 mm |

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### Material specifications

|                 |                          |
|-----------------|--------------------------|
| Color (Housing) | graphite gray (RAL 7024) |
|-----------------|--------------------------|

### Mounting

|               |                             |
|---------------|-----------------------------|
| Mounting type | Rack mounting (with holder) |
| Holder system | 19" rack                    |

### Interfaces

#### Ethernet

|                               |                                   |
|-------------------------------|-----------------------------------|
| Connection method             | RJ45                              |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission speed            | 10/100/1000 Mbps                  |
| Transmission physics          | Copper                            |
| Transmission length           | 100 m (per segment)               |
| No. of channels               | 16 (RJ45 ports)                   |

#### Ethernet (SFP)

|                      |                             |
|----------------------|-----------------------------|
| Connection method    | SFP                         |
| Transmission speed   | 100/1000 Mbps (full duplex) |
| Transmission physics | Depending on the SFP module |
| No. of channels      | 16 (SFP ports)              |

### Output data

#### Digital:

|             |                                          |
|-------------|------------------------------------------|
| Output name | Alarm relay output: 24 V DC, 1 A maximum |
|-------------|------------------------------------------|

### Product properties

|                |                       |
|----------------|-----------------------|
| Product type   | Switch                |
| Product family | Managed Switch EP7000 |

#### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
|----------------------|----|

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|                     |   |
|---------------------|---|
| Degree of pollution | 2 |
|---------------------|---|

## Switch functions

|                                  |                                 |
|----------------------------------|---------------------------------|
| Diagnostic functions             | SysLog                          |
| Signal contact control voltage   | 24 V DC                         |
| Signal contact control current   | 1 A                             |
| Filter functions                 | Link Aggregation                |
| IP parameterization              | DHCP Option 82                  |
| MAC address table                | 16k                             |
| Management                       | SNMPv1/v2/v3                    |
|                                  | Port mirroring                  |
|                                  | SSHv2                           |
|                                  | Telnet                          |
|                                  | MIB support                     |
| Redundancy                       | RSTP                            |
| Status and diagnostic indicators | LEDs: POWER, ERROR, Link status |
| Time synchronization             | IEEE 1588v2 (PTP)               |

## Security functions

|                                                    |                             |
|----------------------------------------------------|-----------------------------|
| Authentication                                     | RADIUS Authentication       |
|                                                    | TACACS+ Authentication      |
|                                                    | ACLs (Access Control Lists) |
| Dynamic Host Configuration Protocol (DHCP) support | Client, Server and Relay    |
| Link Layer Discovery Protocol (LLDP)               | IEEE 802.1AB                |

## Electrical properties

|                                                 |      |
|-------------------------------------------------|------|
| Maximum power dissipation for nominal condition | 50 W |
|-------------------------------------------------|------|

## Supply

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Supply voltage (DC)  | 24 V DC (Redundant DC power supplies are load sharing) |
| Supply voltage range | 10 V DC ... 36 V DC                                    |

## Function

|                                |         |
|--------------------------------|---------|
| Signal contact control voltage | 24 V DC |
| Signal contact control current | 1 A     |

## Connection data

### Power supply

|                                   |                     |
|-----------------------------------|---------------------|
| Connection method                 | Screw connection    |
| Conductor cross-section, rigid    | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section, flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section AWG       | 24 ... 12           |

## Environmental and real-life conditions

### Ambient conditions

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|                                          |                                                      |
|------------------------------------------|------------------------------------------------------|
| Degree of protection                     | IP20                                                 |
| Ambient temperature (operation)          | -40 °C ... 85 °C (Type tested to 85 °C for 16 hours) |
| Ambient temperature (storage/transport)  | -40 °C ... 85 °C                                     |
| Permissible humidity (operation)         | 5 % ... 95 % (non-condensing)                        |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing)                       |

## Standards and regulations

|                          |                    |
|--------------------------|--------------------|
| Standard designation     | Ambient conditions |
| Standards/specifications | IEC 61850-3        |
|                          | IEEE 1613          |

## Approvals

### Conformity/Approvals

|             |              |
|-------------|--------------|
| Conformance | CE-compliant |
|-------------|--------------|

## EMC data

|                |                                            |
|----------------|--------------------------------------------|
| Noise immunity | IEC 61850-3, IEEE 1613, EN 61000-6-2: 2005 |
|----------------|--------------------------------------------|

## Signaling

|                |                                 |
|----------------|---------------------------------|
| Status display | LEDs: POWER, ERROR, Link status |
|----------------|---------------------------------|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 19170401 |
| ECLASS-15.0 | 19170401 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000734 |
|-----------|----------|

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## Environmental product compliance

### EU RoHS

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

### 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.) | 1-Methyl-2-pyrrolidone (NMP)(CAS: 872-50-4)                                 |
|                                     | N,N-dimethylacetamide(CAS: 127-19-5)                                        |
|                                     | 1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)(CAS: 110-71-4) |
|                                     | Hexahydromethylphthalic anhydride(CAS: n/a)                                 |
|                                     | Lead titanium zirconium oxide(CAS: 12626-81-2)                              |
|                                     | Lead titanium trioxide(CAS: 12060-00-3)                                     |
|                                     | 4,4'-isopropylidenediphenol(CAS: 80-05-7)                                   |
|                                     | Terphenyl, hydrogenated(CAS: 61788-32-7)                                    |
|                                     | Lead(CAS: 7439-92-1)                                                        |
|                                     | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one(CAS: 71868-10-5)   |

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