

FL SWITCH EP7232-LV - Industrial Ethernet Switch



1688991

<https://www.phoenixcontact.com/us/products/1688991>

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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 | 1688991 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN36 |
| Product key | DNN511 |
| GTIN | 4067923249219 |
| 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 |
|---------------------|-------------------------|

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 | 32 (RJ45 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 |
| 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 |

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| | |
|----------------------------------|---------------------------------|
| 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 mm ² ... 2.5 mm ² |
| Conductor cross-section, flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 12 |

Environmental and real-life conditions

Ambient conditions

| | |
|------------------------------------------|------------------------------------------------------|
| 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 |

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| | |
|--|-----------|
| | 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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