

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



1688989

<https://www.phoenixcontact.com/us/products/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
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### Material specifications

Color (Housing)	graphite gray (RAL 7024)
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### 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
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### Product properties

Product type	Switch
Product family	Managed Switch EP7000

#### Insulation characteristics

Overvoltage category	II
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Degree of pollution	2
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## 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
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## 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 <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

## 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
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## EMC data

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