

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



1688985

<https://www.phoenixcontact.com/us/products/1688985>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

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: 36 V DC ... 72 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	1688985
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN36
Product key	DNN511
GTIN	4067923248496
Weight per piece (including packing)	9,030 g
Weight per piece (excluding packing)	6,080 g
Country of origin	CA

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



1688985

<https://www.phoenixcontact.com/us/products/1688985>

## 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
----------------------	----

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



1688985

<https://www.phoenixcontact.com/us/products/1688985>

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)	48 V DC (Redundant DC power supplies are load sharing)
Supply voltage range	36 V DC ... 72 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

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



1688985

<https://www.phoenixcontact.com/us/products/1688985>

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
----------------	---------------------------------

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



1688985

<https://www.phoenixcontact.com/us/products/1688985>

## Classifications

### ECLASS

ECLASS-13.0	19170401
ECLASS-15.0	19170401

### ETIM

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

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



1688985

<https://www.phoenixcontact.com/us/products/1688985>

## 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)

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)