

FL SWITCH EP6412-4GSFP-MV - Industrial Ethernet Switch



1559224

<https://www.phoenixcontact.com/us/products/1559224>

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Managed Switch EP6000 series, 12 RJ45 ports 10/100/1000 Mbps, 4 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 Layer 3 functions
- IEEE 1588 v2 precision timing support
- Support for Access Control Lists (ACL) for traffic filtering, RADIUS, and TACAC's authentication.

Commercial data

Item number	1559224
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN36
Product key	DNN512
GTIN	4067923039070
Weight per piece (including packing)	2,623 g
Weight per piece (excluding packing)	2,015 g
Country of origin	CA

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Technical data

Dimensions

Width	82.7 mm
Height	188.39 mm
Depth	197.12 mm

Notes

Note on application

Note on application	Only for industrial use
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Material specifications

Color (Housing)	black (RAL 9005)
Housing material	Metal

Mounting

Mounting type	DIN rail mounting
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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	12 (RJ45 ports)

Ethernet (SFP)

Connection method	SFP
Transmission speed	100/1000 Mbps (full duplex)
Transmission physics	Depending on the SFP module
No. of channels	4 (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 EP6000

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
Redundancy	MIB support
	RSTP
	LEDs: POWER, ERROR, Link status
Status and diagnostic indicators	
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

Local diagnostics	Power Supply voltage Green LED
	Error Alarm signal LED red
Maximum power dissipation for nominal condition	max. 50 W
Transmission medium	Copper
	depending on the SFP module used

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

Connection method	Screw connection
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
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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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