

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



1471548

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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: 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 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	1471548
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN36
Product key	DNN512
GTIN	4063151877538
Weight per piece (including packing)	2,646 g
Weight per piece (excluding packing)	2,020 g
Customs tariff number	85176200
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
	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)

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)	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

Connection method	Screw connection
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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

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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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