

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



1471548

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Managed switch with twelve RJ45 ports at 10/100/1000 Mbps, four SFP ports at 100/1000 Mbps and operating temperature of -40 ... +85°C, 24 V DC (Nom.) redundant power supply

Product description

FL SWITCH EP64... advanced managed network switches provide an adaptable platform to meet the electric power industry's increasing requirements for scalable network performance, uptime, and security.

Your advantages

- 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	DNN512
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

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)

Ethernet (SFP)

Connection method	SFP
Transmission speed	100/1000 Mbps (full duplex)
Transmission physics	Depending on the SFP module

Output data

Digital

Output name	Alarm relay output: 24 V DC, 1 A maximum
Output name	Alarm relay output: 24 V DC, 1 A maximum

Product properties

Product type	Switch
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Insulation characteristics

Overvoltage category	II
Degree of pollution	2

Switch functions

Signal contact control voltage	24 V DC
Signal contact control current	1 A
MAC address table	16k

Electrical properties

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
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Signal contact control current	1 A
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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
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

Standards and regulations

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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Classifications

ECLASS

ECLASS-11.0	19170401
ECLASS-13.0	19170401

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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)
	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16.9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)(CAS: n/a)
	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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