

FL SWITCH EP7428R-L3F1 - Industrial Ethernet Switch



1144353

<https://www.phoenixcontact.com/in/products/1144353>

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Ethernet gigabit modular switch with slots for twenty-four 10/100/1000 Mbps copper or 100/1000 Mbps SFP ports and four 1000/10,000 Mbps SFP ports using hot-swappable rear modules



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
- Modules allow device connections to expand from 10/100 Mbps to 1000 Mbps, and uplink connections from 1 Gbps to 10 Gbps
- Extensive security functions for remote access, local access and network access areas
- 28-port rack-mount switch with required modular port and power supplies
- Hot-swappable port and power supply modules

Commercial data

Item number	1144353
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNN
Product key	DNN511
GTIN	4063151129897
Weight per piece (including packing)	7,846 g
Weight per piece (excluding packing)	6,276 g
Customs tariff number	85176200
Country of origin	CA

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Technical data

Dimensions

Width	486.2 mm
Height	44.4 mm
Depth	446.7 mm

Notes

Note on application

Note on application	Only for industrial use
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Mounting

Mounting type	Rack mounting
Mounting type	Rack mount, includes brackets

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	RJ45 or SFP

Ethernet (SFP)

Connection method	SFP
Transmission speed	1000/10,000 Mbps (full duplex)
Transmission physics	Depending on the SFP module

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
Degree of pollution	2

Switch functions

Signal contact control voltage	24 V DC
Signal contact control current	1 A

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MAC address table	16k
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Electrical properties

Maximum power dissipation for nominal condition	60 W
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Supply

Supply voltage	Based on modular power supplies used
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Function

Signal contact control voltage	24 V DC
Signal contact control current	1 A

Connection data

Connection technology

Connection name	Power supply
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Power supply

Connection method	Screw connection
Conductor cross section, rigid	0.2 mm² ... 2.5 mm²
Conductor cross section, flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

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)
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz

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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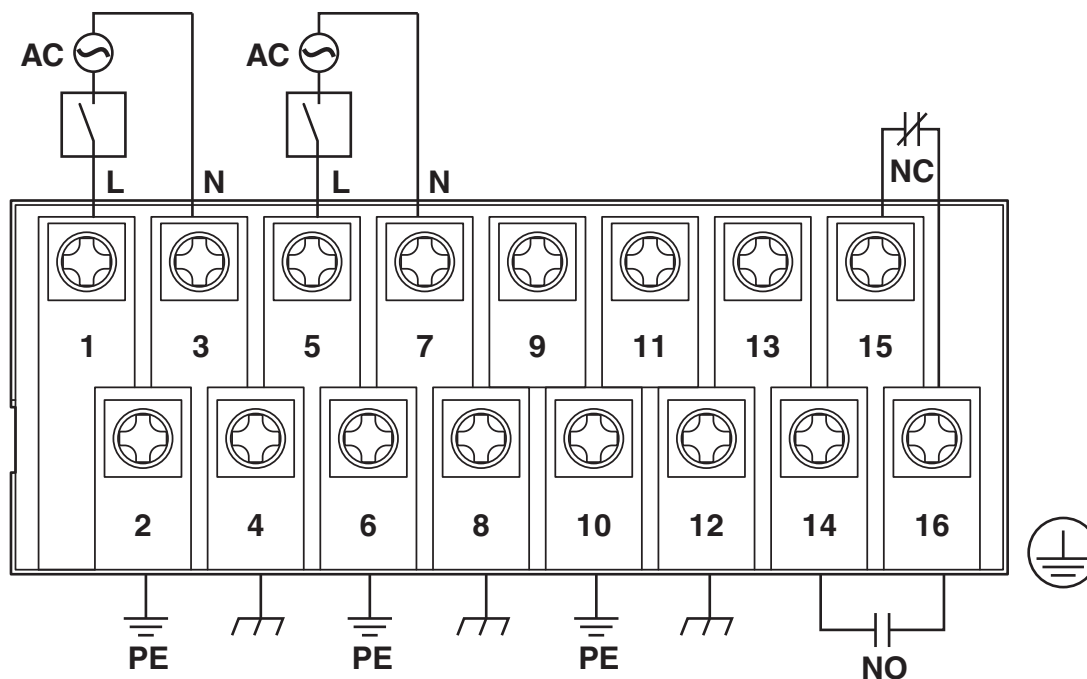
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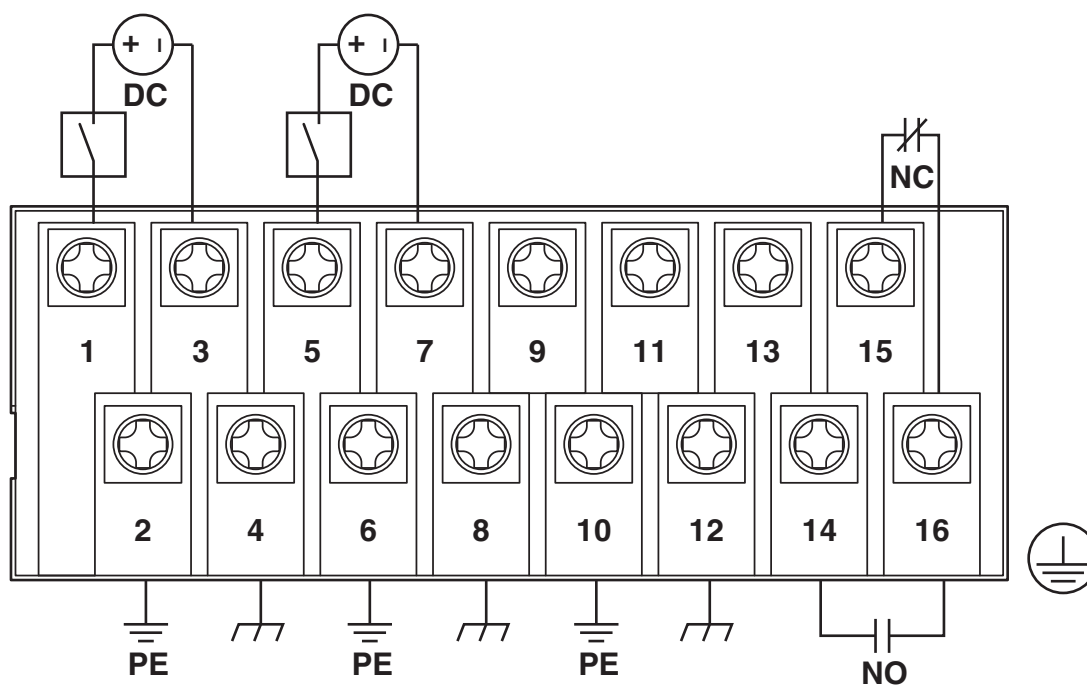
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Drawings

Connection diagram



Connection diagram



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Approvals

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EAC

Approval ID: RU D-DE.GB09.B.00312

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Classifications

ECLASS

ECLASS-11.0	19170401
ECLASS-12.0	19170401
ECLASS-13.0	19170401

ETIM

ETIM 9.0	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)
	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead titanium zirconium oxide(CAS: 12626-81-2)
	Lead titanium trioxide(CAS: 12060-00-3)
	Orange lead (lead tetroxide)(CAS: 1314-41-6)
	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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Accessories

FL SWITCH EP7400-PS-LV - Feed-in module

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Feed-in module



FL SWITCH EP7400-PS-MV - Feed-in module

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Feed-in module



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FL SWITCH EP7400-PS-HV - Feed-in module

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Feed-in module



FL SWITCH EP7400-M8GRJ45 - Communication module

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Extension module, provides eight RJ45 ports at 10/100/1000 Mbps



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FL SWITCH EP7400-M8GSFP - Communication module

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Extension module, provides eight SFP at 100/1000 Mbps



FL SWITCH EP7400-M4TGSFP - Communication module

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Extension module, provides four SFP ports at 1/10 Gbps



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FL SWITCH EP7400-ABLK - Cover

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FL SWITCH EP7400-PNLMNT - Mounting panel

1380736

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The FL SWITCH EP7400-PNLMNT mounts FL SWITCH EP7... directly on a panel



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FL SWITCH EP7400-M4GRJ45-4GSFP - Communication module

1539361

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Extension module, provides four RJ45 ports at 10/100/1000 Mbps and four SFP ports at 100/1000 Mbps



FL SWITCH EP7400 -M8SERRJ - Communication module

1539362

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Extension module, provides eight serial RJ45 ports, RS-232/422/485



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FL SWITCH EP7400 -M4SERDB - Communication module

1539365

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Extension module, provides four serial D-SUB 9 ports, RS-232/422/485



FL SWITCH EP7400-MHSR-PRP - Communication module

1510975

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Extension module, provides four gigabit HSR/PRP combo ports (10/100/1000 Mbps RJ45 connection and 100/1000 Mbps SFP connection)



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FL SWITCH EP7400-MCP-W-256GB - Communication module

1539385

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Extension module, co-processor with E3940 Intel Atom® with 8 GB of RAM, Windows® 11 Pro operating system



FL SWITCH EP7400-MCP-W-512GB - Communication module

1539414

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Extension module, co-processor with E3940 Intel Atom® with 8 GB of RAM, Windows® 11 Pro operating system



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FL SWITCH EP7400-MCP-W-1TB - Communication module

1539416

<https://www.phoenixcontact.com/in/products/1539416>

Extension module, co-processor with E3940 Intel Atom® with 8 GB of RAM, Windows® 11 Pro operating system



FL SWITCH EP7400-MCP-W-2TB - Communication module

1539658

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Extension module, co-processor with E3940 Intel Atom® with 8 GB of RAM, Windows® 11 Pro operating system



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FL SWITCH EP7400-MCP-L-256GB - Communication module

1539661

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Extension module, co-processor with E3940 Intel Atom® with 8 GB of RAM, Ubuntu® Desktop 22.04.03 LTS operating system



FL SWITCH EP7400-MCP-L-512GB - Communication module

1539663

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Extension module, co-processor with E3940 Intel Atom® with 8 GB of RAM, Ubuntu® Desktop 22.04.03 LTS operating system



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FL SWITCH EP7400-MCP-L-1TB - Communication module

1539665

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Extension module, co-processor with E3940 Intel Atom® with 8 GB of RAM, Ubuntu® Desktop 22.04.03 LTS operating system



FL SWITCH EP7400-MCP-L-2TB - Communication module

1539666

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FL SFP FX - Media module

2891081

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The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).

FL SFP FX SM - Media module

2891082

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The small form-factor plug-in module provides a fiber optic interface with a data transmission speed of 100 Mbps with a wavelength of 1310 nm (long).

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FL SFP GT - Media module

2989420

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Gigabit SFP module for transmission up to 100 m.

FL SFP SX - Media module

2891754

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Gigabit SFP module for transmission up to 1 km with a wavelength of 850 nm.

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FL SFP SX2 - Media module

2702397

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Gigabit SFP module for transmission up to 2 km with a wavelength of 1310 nm.

FL SFP LX - Media module

2891767

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Gigabit SFP module for transmission up to 30 km with a wavelength of 1310 nm.

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FL SFP LX10-B - Media module

1025401

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Gigabit SFP module for transmission up to 10 km with a wavelength of 1310 nm.

FL SFP-10G-SR - Media module

1145046

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10 Gigabit SFP module for transmission up to 300 m with a wavelength of 850 nm.

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