

FL SWITCH 4808E-16FX-4GC - Industrial Ethernet Switch

2891079

<https://www.phoenixcontact.com/us/products/2891079>

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Rack-mount managed Ethernet switch meets IEC 61850-3 and IEEE 1613. Provides eight RJ45 ports at 10/100 Mbps, 16 SC-D MM fiber ports at 100 Mbps and four gigabit combo ports (10/100/1000 Mbps RJ45 connection; 1000 Mbps fiber optic connection requires 1000 Mbps SFP module).



Your advantages

- Network structure according to IEC 61850
- IEEE 1613

Commercial data

Item number	2891079
Packing unit	1 pc
Sales key	DN17
Product key	DNN125
Catalog page	Page 321 (C-6-2019)
GTIN	4046356801690
Weight per piece (including packing)	4,480 g
Weight per piece (excluding packing)	4,470 g
Customs tariff number	85176200
Country of origin	TW

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Technical data

Dimensions

Width	442 mm
Height	44 mm
Depth	375 mm

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Mounting

Mounting type	Rack mount, includes brackets
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Interfaces

Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
Transmission length	100 m
No. of channels	8 (RJ45 ports)

Fiber optic interface

Connection method	SC
Transmission speed	100 Mbps (Full duplex)
Transmission physics	multi-mode fiberglass
Transmission length	8 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000)
	3.3 km (fiberglass with F-G 62.5/125 2.6 dB/km F600)
	9.6 km (fiberglass with F-G 50/125 0.7 dB/km F1200)
	5.3 km (fiberglass with F-G 50/125 1.6 dB/km F800)
Wavelength	1300/1310 nm
No. of channels	16 (Multi mode)

Ethernet (RJ45/FO combo)

Connection method	SFP/RJ45
Note on the connection method	Auto negotiation and autocrossing (RJ45 interface)
Transmission speed	10/100/1000 Mbps
Transmission physics	Ethernet RJ45 (10/100/1000 Mbps) or SFP (1000 Mbps)
No. of channels	4 (Combo ports)

Product properties

Product type	Switch
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Product family	Managed Switch 4000
Type	Block design
MTTF	7.3 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
	41.2 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	19.8 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))

Switch functions

Basic functions	Store and forward switch, Extended Ring and IEEE redundancy, Multicast control, IGMP snooping, trunking, Port and Tagging VLANs, Port and IEEE 802.1x security, SNMP V3 and Https security, SNTP, web customization, user accounts
Redundancy	ERR (Extended ring redundancy)
Status and diagnostic indicators	LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port

Security functions

Basic functions	Store and forward switch, Extended Ring and IEEE redundancy, Multicast control, IGMP snooping, trunking, Port and Tagging VLANs, Port and IEEE 802.1x security, SNMP V3 and Https security, SNTP, web customization, user accounts
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Electrical properties

Transmission medium	Copper
	FO

Supply

Power supply connection	From FL SWITCH 4800E-P...
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	57 kPa ... 108 kPa (up to 4850 m above mean sea level)
Air pressure (storage/transport)	57 kPa ... 108 kPa (up to 4850 m above mean sea level)

Standards and regulations

Standard designation	Ambient conditions
Standards/specifications	IEC 61850-3

EMC data

Noise immunity	IEC 61850-3, IEEE 1613, EN 61000-6-2: 2005
Noise emission	EN 61000-6-4

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System properties

Functionality	
Basic functions	Store and forward switch, Extended Ring and IEEE redundancy, Multicast control, IGMP snooping, trunking, Port and Tagging VLANs, Port and IEEE 802.1x security, SNMP V3 and Https security, SNTP, web customization, user accounts

Signaling	
Status display	LEDs: U _{S1} , U _{S2} (redundant voltage supply), link and activity per port

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2891079>

**EAC**
Approval ID: RU*-DE.*.B.00741/19

**UL Listed**
Approval ID: FILE E 140403

**cUL Listed**
Approval ID: FILE E 140403

**KC**
Approval ID: MSIP-REI-PCK-2891079

cULus Listed

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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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UNSPSC

UNSPSC 21.0	43222600
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	15(a), 6(c), 7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-10
	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.)	Lead(CAS: 7439-92-1)

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Mandatory accessories

FL SWITCH 4800E-P1B - Power module

1312459

<https://www.phoenixcontact.com/us/products/1312459>

Modular power supply for FL SWITCH 48... managed switches. Wide input voltage range 36 V DC to 75 V DC.



FL SWITCH 4800E-P5B - Power module

1312448

<https://www.phoenixcontact.com/us/products/1312448>

Modular power supply for FL SWITCH 48... managed switches. Wide input voltage range 90 V,AC to 264 V AC and 88 V DC to 300 V DC.



Accessories

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DT-LAN-CAT.6+ - Surge protection device

2881007

<https://www.phoenixcontact.com/us/products/2881007>



Surge protection in accordance with Class E_A (CAT6_A), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE++ / 4PPoE) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

FL CAT5 PATCH 0,5 - Patch cable

2832263

<https://www.phoenixcontact.com/us/products/2832263>



Patch cable, CAT5, assembled, 0.5 m

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FL CAT5 PATCH 1,0 - Patch cable

2832276

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Patch cable, CAT5, assembled, 1 m



FL CAT5 PATCH 2,0 - Patch cable

2832289

<https://www.phoenixcontact.com/us/products/2832289>

Patch cable, CAT5, assembled, 2 m



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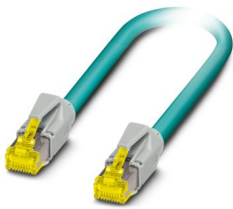
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NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

<https://www.phoenixcontact.com/us/products/1411854>

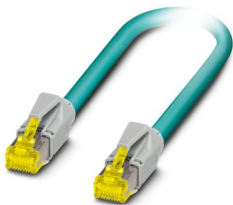


Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6_A, cable outlet: straight, Ethernet

NBC-R4AC/10G-R4AC/10G-94F/2,0 - Patch cable

1408360

<https://www.phoenixcontact.com/us/products/1408360>



Patch cable, CAT6_A, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

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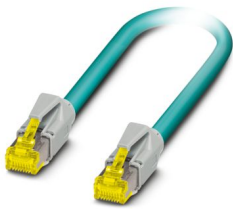
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NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365

<https://www.phoenixcontact.com/us/products/1408365>



Patch cable, CAT6_A, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

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