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



## Why buy this product

- Network structure according to IEC 61850
- IEEE 1613

## Ethernet IEC 61850-3

### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 801690

## Technical data

### Dimensions

Width	442 mm
Height	44 mm
Depth	375 mm

### 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)

### Interfaces

Interface 1	Ethernet (RJ45)
No. of ports	8 (RJ45 ports)
Connection method	RJ45
Note on connection method	Auto negotiation and autocrossing

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## Technical data

### Interfaces

Transmission physics	Ethernet in RJ45 twisted pair
Transmission speed	10/100 MBit/s
Transmission length	100 m
Interface 2	Fiber optic interface
No. of ports	16 (Multi mode)
Connection method	SC
Transmission physics	multi-mode fiberglass
Transmission speed	100 MBit/s (Full duplex)
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
Interface 3	Ethernet (RJ45/FO combo)
No. of ports	4
Connection method	Combo
Note on connection method	Auto negotiation and autocrossing (RJ45 interface)
Transmission physics	Ethernet RJ45 (10/100/1000 Mbps) or SFP (1000 Mbps)
Transmission speed	10/100/1000 MBit/s

### Function

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
Status and diagnostic indicators	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), link and activity per port

### Network expansion parameters

Cascading depth	Network, linear, and star structure: any
Maximum conductor length (twisted pair)	100 m

### General

Mounting type	Rack mount, includes brackets
Type AX	Block design
Net weight	4470 g

### Standards and Regulations

Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	30g, 11 ms half-sine shock pulse
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	5g, 150 Hz, Criterion 3
Noise emission	EN 61000-6-4
Noise immunity	IEC 61850-3, IEEE 1613, EN 61000-6-2: 2005

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## Classifications

### eCl@ss

eCl@ss 4.0	27250501
eCl@ss 4.1	27250501
eCl@ss 5.0	19030117
eCl@ss 5.1	19030117
eCl@ss 6.0	19170106
eCl@ss 7.0	19170106
eCl@ss 8.0	19170106

### ETIM

ETIM 3.0	EC000734
ETIM 4.0	EC000734
ETIM 5.0	EC000734

### UNSPSC

UNSPSC 6.01	43172901
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43201410

## Approvals

### Approvals

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Approvals

UL Listed / cUL Listed

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Ex Approvals

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Approvals submitted

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### Approval details

UL Listed
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cUL Listed
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