

## 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).




### Your advantages

- Network structure according to IEC 61850
- IEEE 1613



IEC 61850-3

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 801690
GTIN	4046356801690
Weight per Piece (excluding packing)	4,470.000 g
Custom tariff number	85176200
Country of origin	Taiwan

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	442 mm
Height	44 mm
Depth	375 mm

#### Ambient conditions

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## Technical data

### 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	Ethernet (RJ45)
No. of ports	8 (RJ45 ports)
Note on the connection method	Auto negotiation and autocrossing
Transmission physics	Ethernet in RJ45 twisted pair
Transmission speed	10/100 Mbps
Transmission length	100 m
Interface	Fiber optic interface
No. of ports	16 (Multi mode)
Transmission physics	multi-mode fiberglass
Transmission speed	100 Mbps (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	Ethernet (RJ45/FO combo)
No. of ports	4
Connection method	Combo
Note on the 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 Mbps

### 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
Redundancy	ERR (Extended ring redundancy)
Status and diagnostic indicators	LEDs: U <sub>S1</sub> , U <sub>S2</sub> (redundant voltage supply), link and activity per port

### Network expansion parameters

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### 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
MTTF	7.3 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

### 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

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 10.0.1	19170401
eCl@ss 4.0	27250500
eCl@ss 4.1	27250500
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170100
eCl@ss 7.0	19170106
eCl@ss 8.0	19170106
eCl@ss 9.0	19170106

### ETIM

ETIM 3.0	EC000734
ETIM 4.0	EC000734

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## Classifications

### ETIM

ETIM 5.0	EC000734
ETIM 6.0	EC000734
ETIM 7.0	EC000734

### UNSPSC

UNSPSC 6.01	43172901
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43222612
UNSPSC 18.0	43222612
UNSPSC 19.0	43222612
UNSPSC 20.0	43222612
UNSPSC 21.0	43222612

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / KC / EAC / cULus Listed

#### Ex Approvals

### Approval details


UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140403
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140403
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KC		<a href="http://eng.kcc.go.kr/user/ehpMain.do">http://eng.kcc.go.kr/user/ehpMain.do</a>	MSIP-REI-PCK-2891079
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### Approvals

EAC		RU*-DE.*.B.00741/19
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cULus Listed	
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### Accessories

#### Necessary add-on products

Power module - FL SWITCH 4800E-P1 - 2891075



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

Power module - FL SWITCH 4800E-P5 - 2891076



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.