

Industrial Ethernet Switch - FL SWITCH 4808E-16FX LC-4GC - 2891073

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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 LC 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 764377 |
| GTIN | 4046356764377 |

Technical data

Note

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

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) |

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Technical data

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 _{S1} , U _{S2} (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 |

Supply voltage

| | |
|---------------------|---|
| Current consumption | 553 mA (115 V AC from FL SWITCH 4800E-P5) |
| Inrush current | 19 A (48 V DC from FL SWITCH 4800E-P1) |

General

| | |
|---------------|--|
| Mounting type | Rack mount, includes brackets |
| Type AX | Block design |
| Net weight | 4630 g |
| MTTF | 8.3 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |

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Technical data

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 |
| 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 |

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 43222612 |
|-------------|----------|

Approvals

Approvals

Approvals

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

Ex Approvals

Approval details

| | | | |
|-----------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140403 |
|-----------|--|---|---------------|

| | | | |
|------------|--|---|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140403 |
|------------|--|---|---------------|

| | | | |
|-----|--|--|--------------------------|
| EAC | | | RU *- DE.A*08.B.00739 |
|-----|--|--|--------------------------|

| | | | |
|----|--|---|--------------------------|
| KC | | http://eng.kcc.go.kr/user/ehpMain.do | MSIP-REI- PCK-2891073 |
|----|--|---|--------------------------|

| | | | |
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| cULus Listed | | | |
|--------------|--|--|--|

Accessories

Accessories

Data cable preassembled

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Accessories

Patch cable - NBC-R4AC-R4AC-IE8A/.../... - 1411854



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

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

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

Patch cable

Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m

Patch cable - FL CAT5 PATCH 1,0 - 2832276



Patch cable, CAT5, assembled, 1 m

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Accessories

Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2 m

Safety locking

Port Guard Security Element - FL PATCH GUARD - 2891424



Lockable security element

Key - FL PATCH GUARD KEY - 2891521



Key for lockable security element

Surge protection for information technology

Surge protection device - DT-LAN-CAT.6+ - 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+) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

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.

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Accessories

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.

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