

Industrial Ethernet Switch - FL SWITCH 2216 - 2702904

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Managed Switch 2000, 16 RJ45 ports 10/100 Mbps, degree of protection: IP20, PROFINET conformance, class B

Your advantages

- ✓ Suitable for PROFINET and EtherNet/IP™ networks
- ✓ Easy and fast startup and commissioning with the FL NETWORK MANAGER software
- ✓ Configuration memory
- ✓ RSTP
- ✓ DHCP client, DHCP server (pool-based and port-based), DHCP option 82
- ✓ VLANs
- ✓ MRP (client and master)
- ✓ Web-based management, SNMP
- ✓ -40°C ... +70°C ambient temperature



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 055626 397214 |
| GTIN | 4055626397214 |

Technical data

Dimensions

| | |
|--------|--------|
| Width | 85 mm |
| Height | 130 mm |
| Depth | 115 mm |

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

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Technical data

Ambient conditions

| | |
|--|---|
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |
| Air pressure (operation) | 68 kPa ... 108 kPa (3000 m above sea level) |
| Air pressure (storage/transport) | 68 kPa ... 108 kPa (3000 m above sea level) |

Interfaces

| | |
|-------------------------------|-----------------------------------|
| Interface 1 | Ethernet (RJ45) |
| No. of ports | 16 (RJ45 ports) |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission physics | Copper |
| Transmission speed | 10/100 Mbps |
| Transmission length | 100 m (per segment) |
| Signal LEDs | Data receive, link status |

Function

| | |
|----------------------------|--|
| Basic functions | Store-and-forward switch, complies with IEEE 802.3 |
| Management | Web-based management (HTTP/HTTPS) |
| | SNMPv1/v2/v3 |
| | Command-line interface (Telnet, SSH) |
| Diagnostic functions | RMON History |
| | LLDP (Link Layer Discovery Protocol) |
| | SNMP-Traps |
| | N:1-Portmirroring |
| | ACD (Address Conflict Detection) |
| Filter functions | Quality of Service (8 priority classes) |
| | Port-Priorisierung |
| | VLAN (up to 32 VLANs) |
| | IGMP Snooping (32 groups) |
| | IGMP Query |
| | Auto-Query-Port |
| | Extended Multicast Filtering |
| | Redundancy |
| | RSTP (Rapid Spanning Tree Protocol) |
| | FRD (Fast Ring Detection) |
| | Large Tree Support |
| | MAC address table |
| IP parameterization | DHCP-Client |
| | DHCP Option 82 (Relay Agent) |
| | DHCP server (pool-based, port-based) |
| | BootP |
| PROFINET device function | PROFINET device |
| PROFINET conformance class | Conformance-Class B |

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Function

| | |
|----------------------------------|---|
| Time synchronization | SNTP (Simple Network Time Protocol) |
| Status and diagnostic indicators | LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link/Activity and Speed) |
| Signal contact control voltage | 24 V DC (typical) |
| Signal contact control current | 1 minute, maximum |

Network expansion parameters

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

Supply voltage

| | |
|-----------------------------|--|
| Supply voltage | 24 V DC (redundant) |
| Residual ripple | 3.6 V _{pp} (within the permitted voltage range) |
| Supply voltage range | 12 V DC ... 57 V DC |
| Typical current consumption | 315 mA (at U _S = 24 V DC) |
| Max. current consumption | 1.4 A (At U _S = 12 V DC and 70°C ambient temperature) |
| Current consumption | 315 mA |

General

| | |
|------------------|--|
| Mounting type | DIN rail |
| Type AX | Book type |
| Net weight | 445 g |
| Housing material | Polycarbonate fiber reinforced |
| Note | Support by phone or on-site (fee is charged) |
| MTTF | 365.63 Years (SN 29500 standard, temperature 25 °C, operating cycle 21 % (5 days a week, 8 hours a day)) |
| | 218.22 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day)) |
| | 31.7 Years (SN 29500 standard, temperature 55 °C, operating cycle 100 % (7 days a week, 24 hours a day)) |

Connection data

| | |
|---------------------------------------|---------------------------|
| Connection method | Push-in spring connection |
| Conductor cross section solid min. | 0.25 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section flexible min. | 0.25 mm ² |
| Conductor cross section flexible max. | 1.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 16 |
| Stripping length | 9 mm |

Standards and Regulations

| | |
|-------------------------------|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Noise emission | EN 61000-6-4 |
| Noise immunity | EN 61000-6-2 |

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Standards and Regulations

| | |
|---|--|
| Vibration (storage/transport) | 5g, 150 Hz, in acc. with IEC 60068-2-6 |
| Free from substances that could impair the application of coating | Yes |
| Vibration (operation) | in acc. with IEC 60068-2-6: 5g, 150 Hz |
| UL, USA | UL 60079-0, Ed.6 / UL 60079-7, Ed.5 |
| UL, Canada | CSA C22.2 NO.60079-0, Ed.3 / CSA C22.2 NO.60079-7:16 |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals


IECEX / ATEX / UL Listed / cUL Listed / cULus Listed

Approval details

| | | | |
|-----------|---|---|---------------|
| UL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|-----------|---|---|---------------|

| | | | |
|------------|---|---|---------------|
| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
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|-----|---|--|-------------------------|
| EAC |  | | RU C- DE.A*30.B01735 |
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| cULus Listed |  | | |
|--------------|---|--|--|

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