

Industrial Ethernet Switch - FL SWITCH 2207-FX - 2702328

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Managed Switch 2000, 7 RJ45 ports 10/100 Mbps, 1 SC multi-mode 100 Mbps, degree of protection: IP20, PROFINET conformance, class B

Why buy this product

- 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
- Slim design
- 40°C ... +70°C ambient temperature



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 STK |
| GTIN |  4 055626 128948 |
| GTIN | 4055626128948 |

Technical data

Note

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

Dimensions

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|--------|--------|
| Width | 45 mm |
| Height | 130 mm |
| Depth | 115 mm |

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Ambient conditions

| | |
|--|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| 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 | 7 (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 |
| Interface 2 | Ethernet FO |
| No. of ports | 1 (SC multi-mode) |
| Transmission physics | multi-mode fiberglass |
| Transmission speed | 100 Mbps (full duplex) |
| Transmission length | 11000 m (fiberglass with F-G 62.5/125 0.7 dB/km F1000) |
| | 6400 m (fiberglass with F-G 50/125 0.7 dB/km F1200) |
| | 3000 m (fiberglass with F-G 62.5/125 2.6 dB/km F600) |
| | 2800 m (fiberglass with F-G 50/125 1.6 dB/km F800) |
| Wavelength | 1300 nm |
| 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 |

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Function

| | |
|----------------------------------|---|
| | Auto-Query-Port |
| | Extended Multicast Filtering |
| MAC address table | 8k |
| Redundancy | MRP (Media Redundancy Protocol) |
| | RSTP (Rapid Spanning Tree Protocol) |
| | FRD (Fast Ring Detection) |
| | Large Tree Support |
| 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 |
| 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 | 200 mA (1 minute, maximum) |

Network expansion parameters

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|---|--|
| 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 | 9 V DC ... 57 V DC |
| Typical current consumption | 220 mA (at U _S = 24 V DC) |
| Max. current consumption | 1.4 A (At U _S = 9 V DC and 70°C ambient temperature) |
| Current consumption | 220 mA |

General

| | |
|------------------|--|
| Mounting type | DIN rail |
| Type AX | Book type |
| Net weight | 240 g |
| Housing material | Polycarbonate fiber reinforced |
| Note | Support by phone or on-site (fee is charged) |
| MTTF | 404.22 Years (SN 29500 standard, temperature 25 °C, operating cycle 21 % (5 days a week, 8 hours a day)) |
| | 185.13 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day)) |
| | 22.87 Years (SN 29500 standard, temperature 70 °C, operating cycle 100 % (7 days a week, 24 hours a day)) |

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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 |
| 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 |
| ATEX | # II 3G Ex nA IIC T4 Gc |
| IECEX | Ex nA IIC T4 Gc |
| 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

ABS / EAC / UL Listed / cUL Listed / RINA / DNV GL / LR / BSH / cULus Listed

Ex Approvals

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

Approval details

| | | |
|-----|---|------------------|
| ABS | http://www.eagle.org/eagleExternalPortalWEB/ | 17-HG1592765-PDA |
|-----|---|------------------|

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Approvals

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|-----|--|--|-------------------------|
| EAC | | | RU C- DE.A*30.B01735 |
|-----|--|--|-------------------------|

| | | | |
|-----------|--|---|---------------|
| 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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|------|--|---|-------------|
| RINA | | http://www.rina.org/en | ELE205816XG |
|------|--|---|-------------|

| | | | |
|--------|--|---|------------|
| DNV GL | | http://exchange.dnv.com/tari/ | TAA00000YV |
|--------|--|---|------------|

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|----|--|---|----------|
| LR | | http://www.lr.org/en | 17/20056 |
|----|--|---|----------|

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|-----|--|---|---------|
| BSH | | http://www.bsh.de/de/index.jsp | Nr. 966 |
|-----|--|---|---------|

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