

Industrial Ethernet Switch - FL SWITCH 2008 - 2702324

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Managed Switch 2000, 8 RJ45 ports 10/100 Mbps, degree of protection: IP20

Why buy this product

- Suitable for PROFINET and EtherNet/IP™ networks
- Unmanaged Mode
- Easy and fast startup and commissioning with the FL NETWORK MANAGER software
- Configuration memory
- RSTP
- MRP client
- DHCP client, DHCP server (port-based)
- VLANs
- Web-based management, SNMP



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 STK |
| GTIN |  4 055626 128917 |
| GTIN | 4055626128917 |
| Weight per Piece (excluding packing) | 360.000 g |
| Custom tariff number | 85176200 |
| Country of origin | Germany |

Technical data

Note

Industrial Ethernet Switch - FL SWITCH 2008 - 2702324

Technical data

Note

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

Dimensions

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

Ambient conditions

| | |
|--|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | 0 °C ... 60 °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) | 86 kPa ... 108 kPa (1500 m above sea level) |
| Air pressure (storage/transport) | 86 kPa ... 108 kPa (1500 m above sea level) |

Interfaces

| | |
|-------------------------------|-----------------------------------|
| Interface 1 | Ethernet (RJ45) |
| No. of ports | 8 (RJ45 ports) |
| Connection method | RJ45 |
| 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 8 VLANs) |

Industrial Ethernet Switch - FL SWITCH 2008 - 2702324

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Function

| | |
|----------------------------------|---|
| | IGMP Snooping (32 groups) |
| | IGMP Query |
| | Auto-Query-Port |
| | Extended Multicast Filtering |
| MAC address table | 8k |
| Redundancy | MRP (Media Redundancy Protocol) |
| | RSTP (Rapid Spanning Tree Protocol) |
| IP parameterization | DHCP-Client |
| | DHCP server (port based) |
| | BootP |
| PROFINET conformance class | Conformance-Class A |
| Time synchronization | SNTP (Simple Network Time Protocol) |
| Status and diagnostic indicators | LEDs: US (power supply), 2 LEDs per Ethernet port (Link/Activity and Speed) |

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 (single) |
| Residual ripple | 3.6 V _{pp} (within the permitted voltage range) |
| Supply voltage range | 18 V DC ... 32 V DC |
| Typical current consumption | 180 mA (at U _S = 24 V DC) |
| Max. current consumption | 0.35 A (At U _S = 18 V DC and 60°C ambient temperature) |
| Current consumption | 180 mA |

General

| | |
|------------------|--|
| Mounting type | DIN rail |
| Type AX | Book type |
| Net weight | 323 g |
| Housing material | Polycarbonate fiber reinforced |
| Note | Support by phone or on-site (fee is charged) |
| MTTF | 507.8 Years (SN 29500 standard, temperature 25 °C, operating cycle 21 % (5 days a week, 8 hours a day)) |
| | 246.55 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day)) |
| | 56.66 Years (SN 29500 standard, temperature 55 °C, operating cycle 100 % (7 days a week, 24 hours a day)) |

Connection data

Industrial Ethernet Switch - FL SWITCH 2008 - 2702324

Technical data

Connection data

| | |
|---------------------------------------|----------------------|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.08 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section flexible min. | 0.08 mm ² |
| Conductor cross section flexible max. | 1.5 mm ² |
| Conductor cross section AWG min. | 28 |
| Conductor cross section AWG max. | 16 |
| Stripping length | 7 mm |

Standards and Regulations

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Developed in acc. with standard | IEC 61000-6.2 |
| Test standard | IEC 61000-4-2 (ESD) |
| Test result | Criterion B |
| Test standard | EN 61000-4-3 (electromagnetic fields) |
| Test result | Criterion A |
| Test standard | IEC 61000-4-4 (burst) |
| Test result | Criterion A |
| Test standard | IEC 61000-4-5 (surge) |
| Test result | Criterion B |
| Test standard | IEC 61000-4-6 (immunity to conducted interference) |
| Test result | Criterion A |
| Noise emission | EN 61000-6-4 |
| Noise immunity | EN 61000-6-2 |
| Vibration (storage/transport) | 2g, criterion 1 according to IEC 60068-2-6 |
| Free from substances that could impair the application of coating | Yes |
| Vibration (operation) | 2g, according to IEC 60068-2-6 |
| UL, USA | UL 61010-1, Ed.3 / UL 61010-2-201, Ed.1 |
| UL, Canada | CSA C22.2 NO.61010-2-201:14, Ed.1 / CSA C22.2 NO.61010-1-12, Ed.3 |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250501 |
|------------|----------|

Industrial Ethernet Switch - FL SWITCH 2008 - 2702324

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.1 | 27250501 |
| eCl@ss 5.0 | 27250501 |
| eCl@ss 5.1 | 27250501 |
| eCl@ss 6.0 | 27250501 |
| eCl@ss 7.0 | 27250501 |
| 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 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11 | 43172015 |
| UNSPSC 12.01 | 43201410 |
| UNSPSC 13.2 | 43222612 |

Approvals

Approvals

Approvals

EAC / UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

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

Industrial Ethernet Switch - FL SWITCH 2008 - 2702324

Approvals

| | | | |
|-----------|--|---|---------------|
| 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 |
|------------|--|---|---------------|

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

Accessories

Accessories

Drivers and interfaces

Software - FL SNMP OPC SERVER V3 - 2701139



SNMP-OPC server, German and English, for monitoring and configuration of SNMP-capable equipment in HMI and SCADA systems

End block

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

Mounting rail adapter

Industrial Ethernet Switch - FL SWITCH 2008 - 2702324

Accessories

DIN rail adapter - FL DIN RA - 2891053



The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.

Network management software

Software - FL NETWORK MANAGER BASIC - 2702889



FL Network Manager, SNMP-based configuration and firmware update software, for easy startup of Managed Switches

Software - FL VIEW 32 LITE - 2701744



FL VIEW, SNMP-based software in English, for the detection and display of Ethernet networks. 32 nodes (network devices) can be monitored in one Class C subnetwork with this version.

Parameterization memory

Memory - SD FLASH 512MB - 2988146



Program and configuration memory, plug-in, 512 Mbyte.

Program / configuration memory - SD FLASH 2GB - 2988162



Program and configuration memory

Industrial Ethernet Switch - FL SWITCH 2008 - 2702324

Accessories

Patch cable

Patch cable - FL CAT6 PATCH 1,0 - 2891385



Patch cable, CAT6, pre-assembled, 1.0 m

PCB plug

Printed-circuit board connector - FK-MCP 1,5/ 5-ST-3,81GY35BD1-5 - 1015782



Protective cap

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket
