


Product Specification

10/100/1000M Managed Industrial Ethernet Switches (FLD-MS-4G16F-I)

| Introduction | Image |
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| <p>This managed industrial Ethernet switch FLD-MS-4G16F-I is designed to match the critical industrial standards. With reliable and simple operation against vibration and shock, and wide operation temperature range, it could match a variety of harsh environments. The switch complies with CE, FCC and RoHS standards, and passed the 100% burning test to ensure that it will fulfill the needs of industrial applications. It is a good choice for an economical solution for industrial Ethernet connections.</p> |  |

| Features & Benefits |
|---|
| 16 10/100Base-T(X) ports and 4 1000Base-X ports |
| "OP-Ring" (recovery time<20ms), RSTP/STP, and MSTP for network redundancy |
| SNMPv3, ieee802.1X, HTTPS and SSH to enhance network security |
| Port-based VLAN, IEEE802.1Q VLAN and GVRP to ease network planning |
| DHCP Option 82 for IP address assignment with different policies |
| Ethernet/IP and Modbus/TCP industrial Ethernet protocol supported |
| Bandwidth management prevents unpredictable network status |
| RMON for efficient network monitoring and proactive capability |
| Lock port allows access by only authorized MAC addresses |
| Port mirroring for online debugging |
| Automatic warning by exception through email, relay output |
| QoS and ToS/DiffServ for flow control and management |

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| IEEE 802.3ad, LACP for optimum bandwidth utilization |
| Configurable by CLI for advanced management function |
| -40°C-85°C operating temperature range |

| Physical Characteristics |
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| Housing: Aluminum Alloy material with IP40 Protection |
| Dimension: 138mm(L) X 112mm(W) X 60mm(H) |
| Weight: 710g |
| Installation: Din-Rail mounting, Wall mounting |

| Switch Properties |
|------------------------------------|
| Priority Queues: 4 |
| Maximum No of Available VLANs: 256 |
| VLAN ID: 1-4094 |
| IGMP Groups: 256 |
| MAC Table Size: 8K |
| Packet Buffer Size: 1M bit |

| Interfaces |
|---|
| Fiber Port: 1000Base-X interface |
| RJ45 Port: 10/100Base-T(X) auto negotiation |
| Console Port: RS-232(RJ45 connector) |
| Alarm Contact: 1 replay outputs, supports IP/MAC conflict |

| Power |
|---|
| Input Voltage: 24V DC(18-36VDC) Redundant dual inputs |
| Input Current: <0.5A @24VDC |
| Overload Current Protection: Present |
| Reverse Polarity Protection: Present |
| Redundant Protection: Present |

Connection: 1 removable 6-pin terminal blocks

Environmental Limits

- ❖ Operating Temperature: -40°C-85°C
- ❖ Storage Temperature: -40°C-85°C
- ❖ Ambient Relative Humidity: 5%-95% (non-condensing)

Technology

Protocol: OP-Ring, IGMPv1/v2, GVRP, SNMPv1/ v2C/ v3, DHCP Client, TFTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, SSH, SNMP Inform, LLDP, SNTP Service/ Client, PVLAN

MIB: MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1,2,3,9

Flow Control: IEEE 802.3x flow control, back pressure flow control

Standards

IEEE 802.3 for 10BaseT
IEEE 802.3u for 100BaseT(X)
IEEE 802.3x for Flow Control
IEEE 802.1D-2004 for Spanning Tree Protocol
IEEE 802.1w for Rapid Spanning Tree Protocol
IEEE 802.1Q for VLAN Tagging
IEEE 802.1p for Class of Service
IEEE 802.1X for Authentication
IEEE 802.3ad for Port Trunk with LACP

EMS:
EN61000-4-2 (ESD), Level 3
EN61000-4-3 (RS), Level 3
EN61000-4-4 (EFT), Level 3
EN61000-4-5 (Surge), Level 3
EN61000-4-6 (CS), Level 3
EN61000-4-16(Common-mode Conduction), Level 3

Shock: IEC 60068-2-27

Free Fall: IEC 60068-2-32

Vibration: IEC 60068-2-6

EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A

Industry: IEC61000-6-2

Rail: EN50155, EN50121-4

Traffic: NEMA TS-2

Warranty

5 years

Contact :

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| Address | 6 th floor ,building 8,Zhongxing industrial zone,Nanshan district,Shenzhen,P.R.China |
| Zip | 518000 |
| Website | www.fiberlandtec.com |
| Email | sales@fiberlandtec.com |