

IXSP-M082 Industrial Managed 1/10G PoE Switch

LCSI



10-Port: 8 x 10/100/1000T 802.3at PoE + 2 x 1/10G SFP

Features

■ System Interface/Performance

- 8 x 10/100/1000Base-T with PoE+ RJ-45 port support Auto MDI/MDI-X Function
- 2 x 1/10G SFP Slots
- Store-and-Forward Switching Architecture
- 12Mbits Packet Buffer
- 16K MAC Address Table
- 16K Jumbo Frame
- Switching Capacity : 56 Gbps
- Forwarding Rate : 41.664Mpps
- Priority Queues : 8
- VLAN Table Size : 4094
- IGMP Group : 1023
- Support industrial automation protocol Modbus TCP
- DI (Digital Input) & DO (Digital Output)

■ Features

- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- Supports IGMP Snooping v1/v2/v3, up to 1023 groups
- DHCP Relay Option 82 for policies IP address assignment
- SNMP v1/v2c/v3 for network management
- Supports Storm Protection
- USB storage for configuration-free replacement
- Support PoE PD Alive Check Function for PoE Devices Power Recycle

Standard

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|---------------|------------------------------------|
| IEEE Standard | IEEE 802.3 10BaseT |
| | IEEE 802.3u 100BaseTX |
| | IEEE 802.3ab 1000BaseT |
| | IEEE 802.3z 1000BaseX |
| | IEEE 802.3ae 10GBase over Fiber |
| | IEEE 802.3x Flow Control |
| | IEEE 802.3ad LACP |
| | IEEE 802.3af Power over Ethernet |
| | IEEE 802.3at PoE+ |
| | IEEE 802.1D Spanning Tree Protocol |
| | IEEE 802.1w Rapid STP |
| | IEEE 802.1s Multiple STP |
| | ITU-T G.8032 / Y.1344 ERPS |
| | IEEE 802.1Q VLAN Tagging |
| | IEEE 802.1ad Stacked VLANs |
| | IEEE 802.1p Class of Service |
| | IEEE 802.1X Network Authentication |
| | IEEE 802.1AB LLDP |

Software Features

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|---------------------|--|
| Network Redundancy | RSTP, MSTP, G.8032 ERPS, Port Trunking with LACP |
| Security Features | 802.1X, RADIUS, SSL, SSH |
| Management | IPv4, IPv6, Web, Telnet, Serial Console, CLI, uPnP, SNMP v1/v2c/v3 |
| Diagnostics | RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP |
| Configuration | DHCP Server/Client, Relay Option 82, TFTP, USB |
| Filter | 802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning |
| Time Sync. | NTP |
| QoS | CoS, DSCP, WRR/SPQ Queuing, Storm Protection |
| PoE | Powering Status, PoE Monitoring, Scheduling, PD Alive Check |
| Industrial Profiles | Modbus TCP |

Interface

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|----------------------|---|
| RJ45 Ports | 8 x 10/100/1000T(x) with POE+, auto negotiation speed duplex mode, auto MDI/MDI-X |
| SFP/Fixed Fiber Port | 2 x 1/10G SFP Slot |
| PoE Pin Out | V+, V+, V-, V-, for pin 1, 2, 3, 6, Endspan, MDI Mode A |
| LED Indicators | Per unit: PWR1, PWR2, Fault, Ring Master, Ring State Ports: Link/Active with highest speed(Green), low speed(Amber) |
| Alarm Contact | 1x relay output with current carrying capacity of 1A @ 24 VDC |
| Digital Input | 1x isolated input from the electronics. +13 to +30V for state "1" -30 to +3V for state "0" Max. input current: 8mA |
| Button | Multiple functions reset button |
| Serial Console | 1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1 |
| Alarm Contact | 1x relay output with current carrying capacity of 1A @ 24 VDC |
| Storage | 1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog |

Power

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|-------------------|---|
| Input Voltage | 48-57VDC, redundant dual inputs |
| Power Connection | 1x removable 4-contact terminal block |
| Power Consumption | 17 Watts |
| PoE Power Budget | Max. 240 W for total PD consumption, Max. 30 W per PoE port |
| Protection | Overload Current Protected, Reverse Polarity Protected |

Mechanical

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|------------------|--|
| Housing | Aluminum, IP30 protection |
| Protection Class | IP30 |
| Dimensions | 75x145x118 mm (WxHxD) |
| Weight | 0.88 kg |
| Mounting | DIN-Rail Mounting, Optional Wall Mounting Kits |

Protection

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|-----------------------------------|---------|
| Overload Current Protection | Present |
| Power Reverse Polarity Protection | Present |

Environment

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|---------------------------|--|
| Operating Temperature | -10°C to 60°C and -40°C to 75°C models |
| Storage Temperature | -40°C ~ 85°C |
| Ambient Relative Humidity | 5 to 95%, (non-condensing) |

Regulatory

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|-----------|---|
| EMI | FCC Part 15 Subpart B Class A CE EN 55022 Class A |
| EMS | IEC61000-4-2 (ESD Level 4), IEC61000-4-3 (RS Level 3), IEC61000-4-4 (EFT Level 4) IEC61000-4-5 (Surge Level 4), IEC61000-4-6 (CS Level 3), IEC61000-4-8 (Magnetic Field Level 4) |
| Free Fall | IEC60068-2-32 |
| Shock | IEC60068-2-27 |
| Vibration | IEC60068-2-6 |
| Green | RoHS Compliant |
| MTBF | >100,000 hours |

Order Information

| Product Name | Description |
|---------------------|--|
| IXSP-M082 | Industrial Managed Gigabit Ethernet Switch - 10 ports: 8*10/100/1000T 802.3at PoE + 2* 1/10G SFP (-10°C~60°C) (Project-based only) |
| IXSP-M082E | Industrial Managed Gigabit Ethernet Switch - 10 ports: 8*10/100/1000T 802.3at PoE + 2* 1/10G SFP (-40°C~75°C) (General Distribution) |

Note: In a continuing effort of improvement and update, product specifications are subject to change without prior notice.