



Overview

The XenOpt XIDS-509/510 series managed Industrial Ethernet switches are equipped with up to 3 Ethernet ports. The "Fi Ring" redundant Ring (recovery time < 20ms), RSTP/STP can increase system reliability and network availability. The elevated hardware reliability is especially suitable for industrial applications.

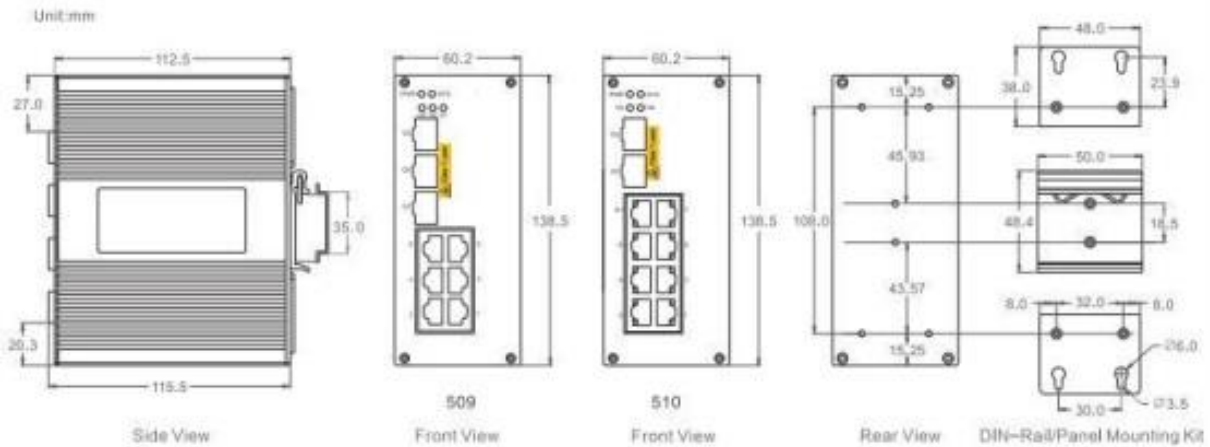
Features

- XIDS-609: 6x10/100BaseTX ports+3x1000BaseX (SFP slots)
- XIDS-610: 7x10/100BaseTX ports+1x10/100/1000BaseTX+2x1000BaseX (SFP slots)
- Command Line Interface (CLI) for quickly configuration major managed functions
- IEEE1588 PTP V2(PrecisionTime Protocol) for precise time synchronization of networks
- DHCP Option 82 for IP address assignment with different policies
- FMC Ring Protocol "Fi Ring" (recovery time < 20 ms), RSTP, STP and MSTP for network redundancy
- Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- Support Ethernet/IP and Modbus/TCP protocols for device management and monitoring
- IGMP snooping and GMRP for filtering multicast traffic
- Support port mirroring
- Support traffic control of multicast and broadcast
- QoS and ToS/DiffServ to increase determinism
- Port Trunking for optimum bandwidth utilization
- SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- Support TACACS+
- SNMPv1/v2c/v3 for different levels of network management
- RMON for efficient network monitoring and proactive capability
- Bandwidth management prevents unpredictable network status
- Lock port function for blocking unauthorized access based on MAC address
- Automatic alarm through e-mail, relay output
- Works with most network management software for traffic monitoring and easy network troubleshooting

Product Highlights

- Designed for tough environment:
 - Dust-proof grade IP40
 - Operating temperature ranges from -40 to +75 °C
 - Redundant power
 - Fan-free design
- Networking features:
 - 2 Gigabit ports for redundant ring and 1 Gigabit port for uplink
 - Comply with IEC61850-3 and IEEE 1613 standard
 - Integrated management, monitoring and alarms via web browser, CLI, Telnet /serial console, Windows utility and SNMP
 - Support STP, RSTP, and protocol "Fi Ring" (Recovery Time<20 ms)
 - SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network
- DIN Rail mount

Specifications



Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3z
- IEEE 802.1D-2004 for STP
- IEEE 802.1w for Rapid STP
- IEEE 802.1s Multiple STP
- 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
- IEEE 802.3x for Flow Control

Protocols:

- IGMPv1/v2
- GVRP
- SNMPv1/v2c/v3
- DHCP Client
- TFTP
- SMTP
- RMON
- HTTP
- HTTPS
- Telnet
- Syslog
- DHCP Option 66/67/82
- SSH
- SNMP Inform
- LLDP
- IEEE 1588 PTP V2
- Ipv6
- SNTP Server/Client

Flow Control:

- IEEE 802.3x flow control
- back pressure flow control

Management Information Base (MIB):

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

Switch Properties:

- Priority Queues: 4
- Max. Number of Available VLANs: 256
- VLAN ID Range: VID 1 to 4094
- IGMP Groups: 256
- MAC Table Size: 8K
- Packet Buffer Size: 2 Mbit

Interface:

- Fiber Ports: 1000BaseX (SFP slots)
- RJ45 Ports: 10/ 100BaseTX or 10/ 100/ 1000BaseTX auto negotiation
- Console Port: RS-232 (RJ45 connector)
- Alarm Contact: 2 relay outputs with current carrying capacity of 1A@24V

Power Requirements:

- Input Voltage: 24 VDC (18 to 36VDC), redundant dual inputs
- Input Current:
 - XIDS-509: 0.41A@24VDC
 - XIDS-510: 0.5A@24VDC
- Overload Current Protection: Present
- Reverse Polarity Protection: Present
- Connector: 6-contact terminal blocks

Mechanical Properties:

- Housing: Metal, IP40 protection
- Dimensions: 60.2 x 115.5 x 138.5 mm
- Weight: 750g
- Installation: DIN-Rail mounting, wall mounting

Environmental Limits:

- Operating Temperature:
 - Standard Models: 0 to +60°C (32 to 140°F)
 - Wide Temp. Models: -40 to +75°C (-40 to 167°F)
- Storage Temperature: -40 to +85°C (-40 to 185°F)
- Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications:

- Safety: UL 60950-1
- EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A EMS:
 - EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 3, EN 61000-4-5 (Surge) Level 3, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Level 3
- Shock: IEC 60068-2-27
- Freefall: IEC 60068-2-32
- Vibration: IEC 60068-2-6

Warranty Period:

- 5years

Ordering information

Part Number	Product Description
XIDS-509	Industrial Switch, 6x10/100BaseTX ports+3x1000BaseX (SFP slots)
XIDS-510	Industrial Switch, 7x10/100BaseTX ports+1x10/100/1000BaseTX +2x1000BaseX (SFP slots)

Note : XIDS-509/510 series support up to 3 1000BaseX (SFP slots). Please find the compatible SFP modules in the accessories list below.

IDS 509/510 accessories - Transceivers

Part Number	Product Description
XSM311-02Lx	SFP 1.25 Gbps, 1310 nm MMF 2 km, -40°C ~ +85°C
XSM851-M5Lx	SFP 1.25 Gbps, 850 nm MMF 500 m, -40°C ~ +85°C
XSS311-20Lx	SFP 1.25 Gbps, 1310 nm, 20 km, -40°C ~ +85°C
XC6-UTUTTC0	Cable, 1 GbE Cu UTP Cat 6A, length: 100 m

Important Notice

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