



IDS P509 series

- 6 IEEE 802.3af / IEEE 802.3at -compliant PoE and Ethernet combo ports
- Provide up to 15.4 / 30 watts at 48 VDC per PoE port
- Proprietary Protocol "Fi Ring" (recovery time <20ms) and RSTP/STP for network redundancy
- SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network
- Easy network management through web browser, CLI, Telnet /serial console, SNMP
- Industrial-grade design with -40 to +75°C operating temperature and redundant power inputs

Overview

The IDS P509 series PoE managed Ethernet switches come standard with 6 10/100BaseTX 802.3af / 802.3at (PoE) compliant Ethernet ports, provide up to 15.4 / 30 watts at 48VDC input per PoE port. When commercial power is not available or is cost-prohibitive to provide locally in some places, the IDS P509 series switches allow power to be supplied to the connected devices such as surveillance camera, wireless access point etc.

Features and Benefits

- Advanced PoE management function
- IDS P509: 6x10/100BaseTX ports + 3x1000BaseX (SFP slots)
PoE ports: 1/2/3/4/5/6
- Command Line Interface (CLI) for quickly configuration major managed functions
- FMC Ring Protocol "Fi Ring" (recovery time < 20ms) and RSTP/STP for network redundancy
- IGMP snooping for filtering multicast traffic
- Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- QoS and ToS/DiffServ to increase determinism
- Port Trunk for optimum bandwidth utilization
- SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- 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
- Support port mirroring
- Support traffic control of multicast and broadcast
- Works with FirstMile's NMS FiVision (industrial network management software) for traffic monitoring and easy network troubleshooting

Specifications

Standards:

IEEE 802.3af / IEEE 802.3at PoE
IEEE 802.3
IEEE 802.3u
IEEE 802.1D-2004 for STP
IEEE 802.1w for Rapid 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,
SSH, SNMP Inform, LLDP, SNT Server/Client

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

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: 1 Mbit

Interface :

Fiber Ports: 1000BaseX (SFP slots)
RJ45 Ports: 10/100BaseTX auto negotiation
Console Port: RS-232(RJ45 connector)
Alarm Contact: 2 relay outputs with current carrying capacity of 0.5A@48V

Power Requirements:

Input Voltage: 48 VDC (36 to 72VDC), redundant dual inputs
Input Current: 1.8A@48VDC (support up to 6 ports at 15.4W / 30W)
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

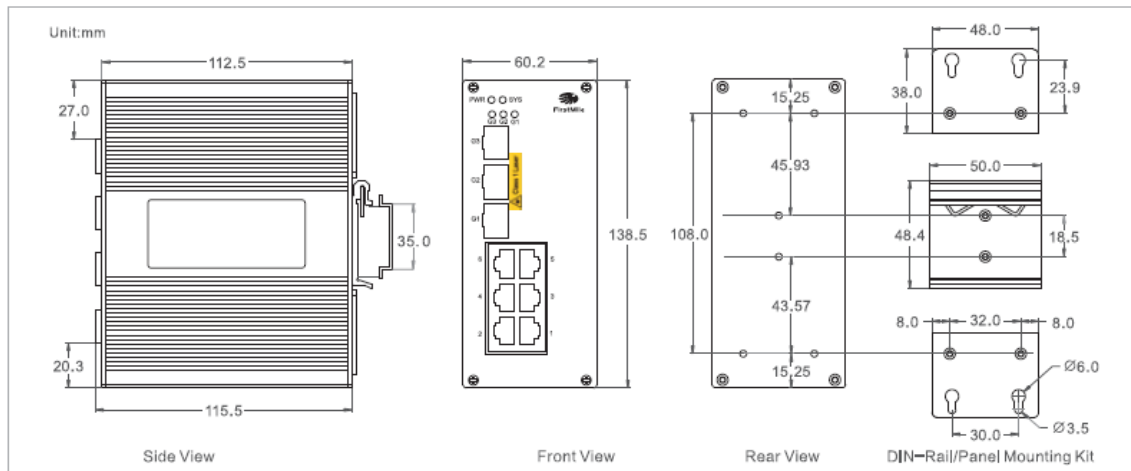
Environmental Limits:

Operating Temperature:
Standard Models: 0 to +60°C (32 ~ 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

Dimensions



Ordering Information

Available Models	Temperature Range
IDS P509	<p>W -40°C to +75 °C</p> <p>S 0°C to +60 °C</p>

Note: The IDS P509 series support up to 3 1000 BaseX (SFP slots). Please find the compatible SFP module in Appendix.