

Industrial Layer 2 Switch with 2-Port Giga SFP and 8-Port Giga (PoE) Switch

IDP410G-8GP

10-port L2+ Managed PoE Switch with 8xGiga PoE, 2 x 100/1000M SFP

IDS410G

10-port L2+ Managed Switch with 8xGiga Ports, 2 x 100/1000M SFP

The IDP410G-8GP and IDS410G are lite industrial Layer 2+ switches designed for essential applications in industrial automation, surveillance, and edge networks. The IDP410G-8GP features 8 Gigabit PoE+ ports and 2 100/1000M SFP uplinks, while the IDS410G offers the same 10-port configuration without PoE.

Both models support Surveillance VLAN, LLDP-MED, VLANs, ACL/QoS, and core security functions, ensuring optimized network performance and control. ERPS and STP/RSTP/MSTP provide network redundancy to maintain uninterrupted operation. With intuitive management via Web GUI, CLI, SNMP, and Telnet, and rugged features such as metal housing, IP40 protection, 6KV surge immunity, dual DC power input, and fanless operation, the IDP410G-8GP and IDS410G deliver stable, high-speed connectivity for diverse lite industrial deployments—with or without PoE.



Features & Benefits

High Throughput Ethernet Switching & Extreme 802.3at PoE+ Capacity

- 10-port with 8-port GbE RJ45, and 2-Port 100/1000M SFP Ports
- 8-port PoE 802.3af/at 30W per port, total 240W
- Energy-Efficient Ethernet for power saving
- Non-blocking switch fabric design
- 8 flexible Class of Service (CoS) queues, 1K Multicast Groups for video applications
- 16K MAC address table, 10KB Jumbo Frame
- PoE management including per-port PoE Status, PoE Scheduling

Layer 2+ Switch and Router

- Layer 2+ IP Routing includes, Static Route and Dynamic Routing protocols, RIP, OSPF, and VRRP

Industrial Design

- **Enhanced Protection:** Service ports include 6KV anti-surge protection, overload safeguards for secure use.
- **Durable Build:** Aluminum alloy shell ensures excellent heat dissipation, interference shielding, rust resistance, and long-lasting durability.
- **Flexible Power Options:** Dual DC redundant power supply (DC48-57V) meets industrial wide-voltage requirements.
- **Industrial Design:** IP40-rated, DIN35 rail mounting, and wide temperature range (-25°C to +70°C) provide stability in harsh environments.

Cyber Security

- MAC/IPv4/IPv6 Access Control List (ACL)
- DHCP Snooping, IP Source Guard, Dynamic ARP Inspection
- 802.1Q VLAN, Port Security
- Multi-Level user passwords
- TACACS+, IEEE 802.1X, SNMPv3, HTTPS, and SSH to enhance network security
- 802.1X MAB for non-802.1X compliant end devices
- RADIUS/TACACS+ centralized password authentication

ITU-T G.8032 v2 ERPS Ring Redundancy

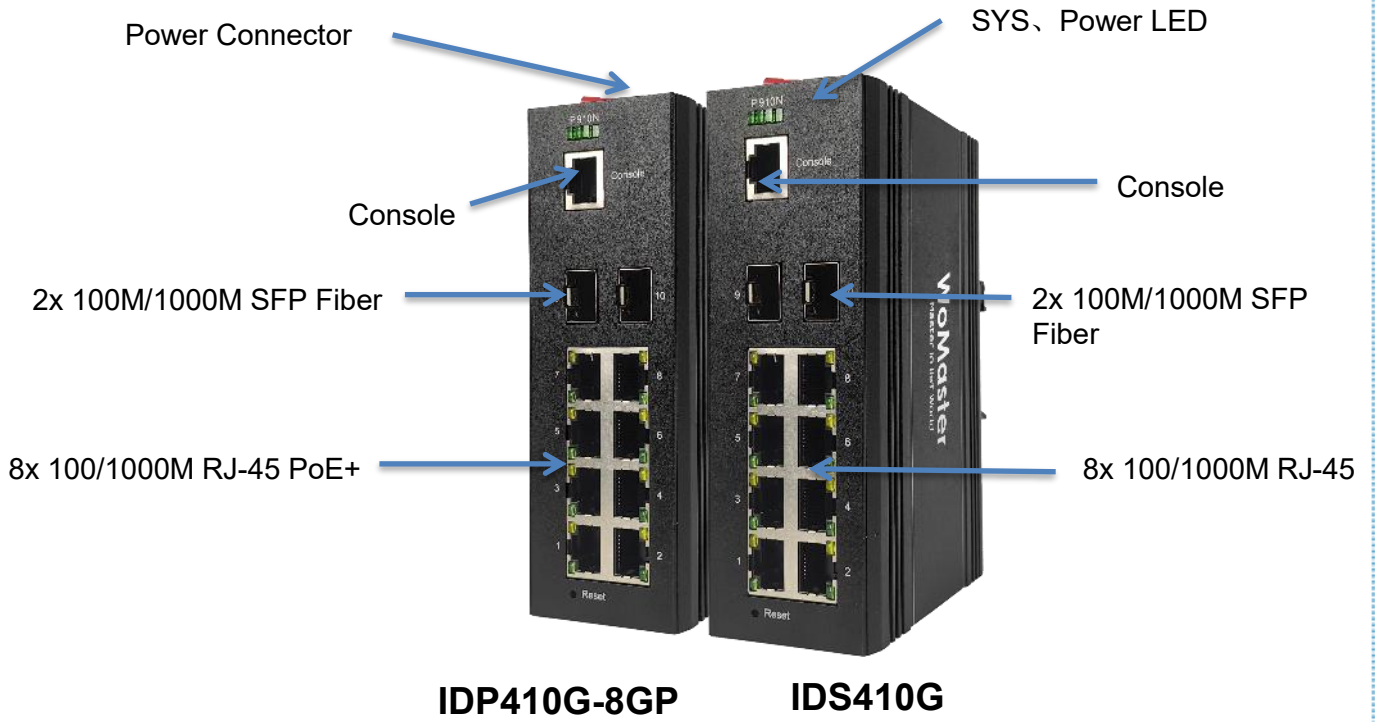
- ITU-T G.8032 v1/v2 ERPS Standard Ring Redundancy protocol
- Less than 50ms recovery time, seamless restoration time
- Inter-Operability with 3rd party industrial switch and still remain fast recovery time
- Replace Ring + Chain + Dual Homing

Industrial Grade Management

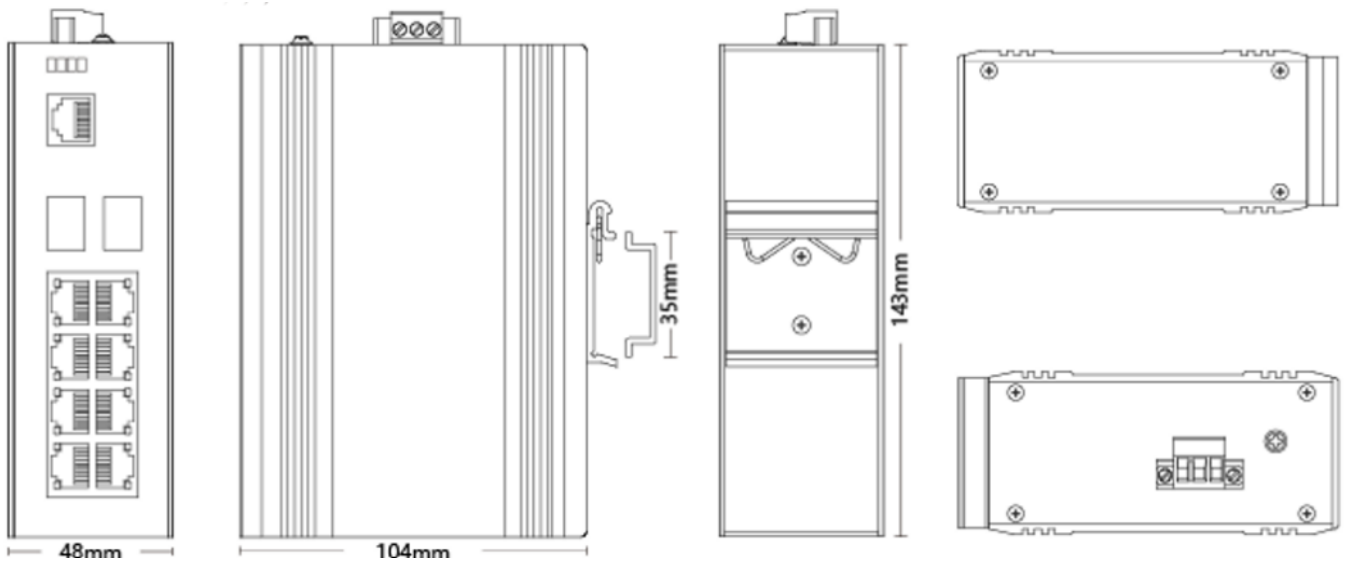
- Various configuration paths, including WebGUI, CLI, SNMP and RMON
- Command line interface (CLI) for quickly configuring major managed functions
- SNMPv1/v2c/v3 for different levels of network management
- RMON enables proactive monitoring, real-time insights, and efficiency.
- Surveillance VLAN simplify the deployment of network security monitoring systems by isolating monitoring traffic from data traffic, while improving security and improving network performance.
- LLDP and LLDP-MED enhance device discovery, automate network configuration, improve interoperability, and support location-based services.



Interfaces



Dimensions



Technology	
Standard	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE802.3z 1000Base-X
	IEEE 802.3ab 1000Base-T Gigabit Ethernet Copper
	IEEE 802.3z Gigabit Ethernet Fiber
	IEEE 802.3x Flow Control and back-pressure
	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
	IEEE 802.1p Class of Service (CoS)
	IEEE 802.1Q VLAN
	IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP)
	IEEE 802.3ad Link Aggregation Control Protocol (LACP)
	IEEE 802.1X Port based Network Access Protocol
Performance	
Switch Capacity	20G
Packet Forwarding Rate	14.88Mpps
Number of MAC Address	8K
Packet Forwarding Cache	4.1M
Forwarding Latency	<10us
Interface	
Ethernet Port	8 x 10/100/1000Base-T RJ45 ports (IDS410G) 8 x 10/100/1000Base-T RJ45 PoE ports (IDP410G-8GP) 2 x 100/1000M SFP
System LED	1 x Power,:Green ON(Power is on) 1 x SYS:Green Blinking (System is ready)
Ethernet Port LED	PoE Port:Link (Green On), Activity (Green Blinking),Powering(Amber On) non PoE:Link (Green On), 10/100M(Amber Off), 1000M(Amber Off), Activity (Green Blinking)
SFP LED	Link (Green On), Activity (Green Blinking)
Reset	Default Settings Reset(over 7 Seconds)
Console	1 x RS232 in RJ45 for System Configuration. Baud Rate: 115200.n.8.1
Power forwarding mode	Alternative A(Default 1/2(+), 3/6(-) 4-pole power supply)
PoE Mode (IDP410G)	IEEE 802.3af/at Max 30W/PoE port, total 240W PoE Budget
Power Input	3-Pin Removable Terminal Block Connector
Power Requirement	
Input Voltage	Non PoE : DC12-58V (IDS410G) PoE : DC48-58V (IDP410G)
Power Consumption	Non PoE < 10W (IDS410G) PoE < 250W (IDP410G)

Software	
IP Routing	L2+ network management functions. Support IPv4/IPv6 static/dynamic routing, Support IPv4/IPv6 dual-stack management Support RIPv1/v2, RIPng, OSPFv1/v2, OSPFv3 ARP protocol with a maximum of 1024 entries
VLAN	port-based VLANs (4K), IEEE802.1q VLANs, protocol-based VLANs Access, Trunk, and Hybrid port configurations.
Port Aggregation	static aggregation and dynamic aggregation (LACP) up to 8 aggregation groups, each aggregation group supports up to 8 ports
Redundancy	STP/RSTP/MSTP spanning tree protocols ITU-T G.8032 v1/v2 Ethernet Ring Protection Switching (ERPSv2) (single-ring, multi-ring, intersecting ring and tangent ring configurations), ring self-healing time less than 20ms Virtual Router Redundancy Protocol (VRRP)
IGMP, Mirroring	IGMP Snooping v1/v2/v3 and up to 1024 multicast groups. bi-directional traffic mirroring on basic ports
DHCP	DHCP Server, DHCP Client, DHCP Snooping v1/v2/v3
QoS	port-based, 802.1P and DSCP/ToS prioritization, and supports 8 output queues per port. Four priority scheduling modes: Equ, SP, WRR, SP+WRR. Priority Mark/Remark, Flow-based rate limiting, packet filtering, redirection
ACL	L2 to L4 packet filtering function and provides ACLs defined based on source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN, etc. Port-based and VLAN-based ACL issuance
Security	Hierarchical management and password protection, Port-based IEEE802.1X authentication AAA & RADIUS with TACACS+ authentication, MAC address learning number limit, MAC address blacklist, address binding, SSH 2.0 encrypted channel for user login, Port isolation, ARP message speed limit function, IP source address protection, ARP intrusion detection, Anti-DoS attacks, Port broadcast message suppression, Host data backup/restore mechanism, IP+MAC+VLAN+Port Quad Binding
Management	Web-based, CLI command line (Console, Telnet), SNMP (V1/V2c/V3), HTTP, TFTP file upload/download, RMON 1, 2, 3 and 9 groups, one key to restore factory settings NTP clock and local clock, local logs and system logs (SYSLOG), Ping detection, cable status checking, instant CPU utilization status, Link Layer Discovery Protocol LLDP, NMS (LLDP+SNMP)
Mechanical	
Installation	Din- Rail
Enclosure Material	Aluminum alloy
Dimension	48X104X143mm
Ingress Protection	IP40
Weight	0.55KG with no package
Environmental	
Operating Temperature & Humidity	-25 to +70°C; 5% to 95% RH non-condensing
Storage Temperature	-40 to +85°C; 5% to 95% RH non-condensing
MTBF	100,000 hours
Warranty	3 Years



Ordering Information

Model Name	Description
IDP410G-8GP	Din-rail 10-port L2+ Managed PoE Switch with 8xGiga PoE and 2x100/1000M SFP
IDS410G	Din-rail 10-port L2+ Managed PoE Switch with 8xGiga and 2x100/1000M SFP
	Package List
	1 x Product Unit (Without SFP Transceiver) (without Power supply)
	1 x 3-pin Removable Terminal Block Connector
	1 x Attached Din Clip
	1 x Quick Installation Guide



Optional Accessory

SFPGEM05DT	1000M	550M	Multi	SFP, 1000Mbps, LC, multi, DDM, 550M, -40~85°C
SFPGES10DT	1000M	10KM	Single	SFP, 1000Mbps, LC, single, DDM, 10KM, -40~85°C
SFPGES30DT	1000M	30KM	Single	SFP, 1000Mbps, LC, single, DDM, 30KM, -40~85°C
SFPXGM03D	10G	300M	Multi	SFP+, 10Gbps, LC, multi-mode, DDM, 300M, 0~70°C
SFPXGM03DT	10G	300M	Multi	SFP+, 10Gbps, LC, multi-mode, DDM, 300M, -40~85°C

SDR-480P-48	Din Rail Power Supply INPUT:90-264VAC, 120-370VDC, OUTPUT: 48VDC/10A, -25 ~ +70°C
NDR 480-48	Din Rail Power Supply INPUT:90-264VAC, 120-370VDC, OUTPUT: 48VDC/10A, -20 ~ +70°C