

Smart Giga L2 PoE Switch with 2-Port Giga SFP and 8-Port Giga PoE

IDP410G-8GP 10-port L2+ Managed PoE Switch with 8xGiga PoE, 2 x 100/1000M SFP

The IDP410G-8GP is a lite industrial Layer 2+ PoE switch designed for essential industrial, automation, and surveillance applications. It features 8 Gigabit PoE+ports and 2 100/1000M SFP uplinks, providing reliable and efficient network connectivity.

With Surveillance VLAN, LLDP-MED, VLANs, ACL/QoS, and essential security features, it optimizes network performance. ERPS and STP/RSTP/MSTP ensure basic redundancy for uninterrupted operation.

Easily managed via Web, CLI, SNMP, and Telnet, it is built for lite industrial environments with a durable metal housing, 6KV surge protection, IP40 rating, dual DC power, and fanless operation. The IDP410G-8GP delivers stable, high-speed, and PoE-enabled networking for essential applications.









Features & Benefits

Hardware Features

- •2 Optical Uplink Ports: Supports long-distance transmission and simplifies networking for ring or chain topologies.
- •Full Gigabit Speed: Ensures high-bandwidth stability with per-port rate and flow control, enabling long-distance network cable transmission to meet diverse user needs.
- •Industrial-Grade Chip: High-bandwidth switching chip with a robust backplane and large cache reduces network congestion.
- •Intelligent Flow Control: Supports IEEE802.3X full-duplex flow control for smooth, lag-free HD transmission.
- •Advanced Port Features: Automatic MAC address learning and updating, plus Auto MDI/MDI-X functionality for seamless connectivity.
- •Enhanced Protection: Service ports include 6KV anti-surge protection, plus power short-circuit and 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 widevoltage requirements.
- •Industrial Design: IP40-rated, DIN rail mounting, and wide temperature range (-25°C to +70°C) provide stability in harsh environments.
- •Energy Efficient: Low power consumption with fanless, silent operation for easy installation and maintenance.

Extreme PoE Capability

- 8-port IEEE 802.3af/at compliant PoE technology, up to 30W per port
- · IEEE 802.3af/at adaptive
- · Output Voltage: DC 48-57V

Software Features

- •**IPv4 Static Routes:** Supports up to 32 static routes and 1024 ARP entries for efficient routing and address resolution.
- •Advanced Port Management: Offers flexible bandwidth and traffic configuration with optical port DDMI diagnostics for precise network management.
- •Comprehensive VLAN Support: Includes IEEE 802.1Q, protocol VLAN, and QinQ VLAN for flexible VLAN configuration based on user needs
- •Quality of Service (QoS): Features three priority modes (port-based, 802.1P, and DSCP) and four queue scheduling algorithms (Equ, SP, WRR, SP+WRR) to optimize traffic handling.
- •Access Control Lists (ACLs): Provides customizable security policies with rule-based filtering, processing actions, and time-based permissions for enhanced network protection.
- •Multicast Protocols: Supports IGMP V1/V2 and IGMP Snooping V1/V2/V3 for seamless multi-terminal HD video surveillance and conferencing.
- •Redundancy Protocols: Supports ITU-T G.8032 v1/v2 ERPS Standard Ring Redundancy protocol and STP/RSTP/MSTP for loop elimination, link backup, and network stability.
- •Link Aggregation: Supports static and dynamic (LACP) aggregation for higher bandwidth, load balancing, link redundancy, and reliability.

Security Features

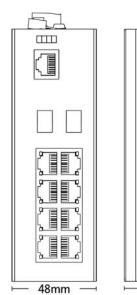
- •User Authentication: Supports WEB interface authentication for secure access.
- •CPU Protection: Prevents large data stream attacks on the switch for enhanced stability.
- •Advanced Authentication Protocols: Supports 802.1x, remote RADIUS, and TACACS+ authentication for robust access control.
- •Comprehensive ACL Support: Hardware supports IP ACL, MAC ACL, port filtering, MAC address binding, and multi-factor binding (IP+MAC+VLAN+Port) for enhanced security.
- •Enhanced Network Control: Features DHCP Snooping V1/V2/V3, port isolation, and broadcast storm suppression for reliable and secure network operation.

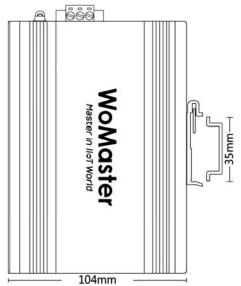


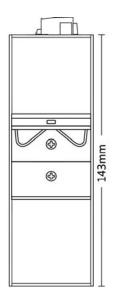


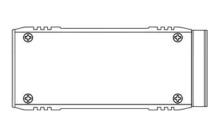
Power Connector

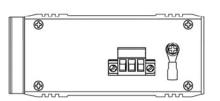














Technology				
Standard	IEEE 802.3 10Base-T Ethernet			
	IEEE 802.3u 100Base-TX Fast Ethernet			
	IEEE 802.3u 100Base-FX Fast Ethernet Fiber			
	IEEE 802.3ab 1000Base-T Gigabit Ethernet Copper			
	IEEE 802.3z Gigabit Ethernet Fiber			
	IEEE 802.3x Flow Control and back-pressure			
	IEEE 802.1AB Link 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	and the second control of the second control			
Switch Technology	Store and Forward Technology with Non-Blocking Switch Fabric			
Number of MAC				
Address	8K			
Packet Buffer Memory	4.1M bits			
Transfer performance	10Base-T: 14,880pps, 100Base-TX/FX: 148,800pps, 1000Base-TX/FX: 1,488,100pps			
Jumbo Packet	10KBytes			
Interface				
Ethernet Port	8 x 10/100/1000Base-T RJ45 802.3af/at PoE,,Auto-Negotiation, Auto MDI/MDIX 2x 100/1000M SFP slots			
System LED	1 x Power, 1 x SYS			
Ethernet Port LED	1000M: Link (Green On, Amber On), Activity (Green Blinking)			
	100M: Link (Green On, Amber Off), 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 Input	3-Pin Removable Terminal Block Connector for Redundant Power			
Power Requirement				
Input Voltage	48VDC (48~57VDC)			
Reverse Polarity Protect	Yes			
Power Consumption	no PoE:<10W;with PoE:<250W			
PoE				
Power forwarding mode	802.3at Alternative A			
PoE Power Budget	Max PoE Power Budget: 240W			
PoE Standard	IEEE 802.3at PoE+, IEEE 802.3af PoE			
Management	PoE Status, PoE Scheduling			
Software				
	L2+ network management functions. IPV4 static routes/default routes with up to 32 entries ARP protocol with a maximum of 1024 entries			
IP Routing	IPV4 static routes/default routes with up to 32 entries ARP protocol with a maximum of 1024 entries			
IP Routing	·			

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				
IGMP, Mirroring	less than 20ms 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				
Direct	port-based, 802.1P and DSCP/ToS prioritization, and supports 8 output queues per				
QoS	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	Steel Metal				
Dimension	48x143x104 (W x H x D) / without DIN Rail Clip				
Ingress Protection	IP40				
Weight	~0.55Kg with no package				
Environmental					
Operating Temperature & Humidity	-25°C~70°C,5% to 95% RH non-condensing				
Storage Temperature	-40°C~85°C,5% to 95% RH non-condensing				
MTBF	100,000 hours				
Warranty	3 Years				
EMC&INGRESS PROT	ECTION				
Surge	Power: Common mode: 4KV;Differential-Mod: 2KV Ethernet Port: Common mode: 4KV;Differential-Mod: 2KV				
ESD	Contact:8KV; Air:15KV				
Free Fall	0.5m				

Ordering Information —

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



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