Smart Giga Layer 2 Switch with 2-Port Giga SFP and 8-Port Giga

IDS410G
10-port L2 Managed Switch with 8 x Giga and 2 x 100/1000M SFP

The IDS410G is a fully managed Layer 2 Gigabit Ethernet switch featuring 8 Gigabit Ethernet ports and 2 100/1000M SFP uplink slots. This device supports advanced L2+ network management capabilities, including IPv4 static routing, robust security protocols, ACL/QoS policy implementation, and comprehensive VLAN functionality, making network configuration and maintenance effortless.
Engineered for reliability, it incorporates standard redundancy mechanisms like ITU-T G.8032 Ethernet Ring Protection Switching (ERPS) with recovery times of less than 20ms, along with STP, RSTP, and MSTP protocols (<50ms recovery) to ensure rapid communication restoration during network failures.
Built for industrial environments, it features a durable aluminum alloy shell for efficient heat dissipation, 6KV surge protection, an IP40-rated enclosure, dual DC power redundancy, and fanless, low-power operation. The IDS410G is a cost-effective solution that delivers stable and reliable communication in harsh environments.

ERPS G.8032

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 10M/250m 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 (DC12-52V) meets industrial wide-voltage requirements.
•**Industrial Design:** IP40-rated, DIN35 rail mounting, and wide temperature range (-25℃ to +75℃) provide stability in harsh environments.
•**Energy Efficient:** Low power consumption with fanless, silent operation for easy installation and maintenance.

Software Features

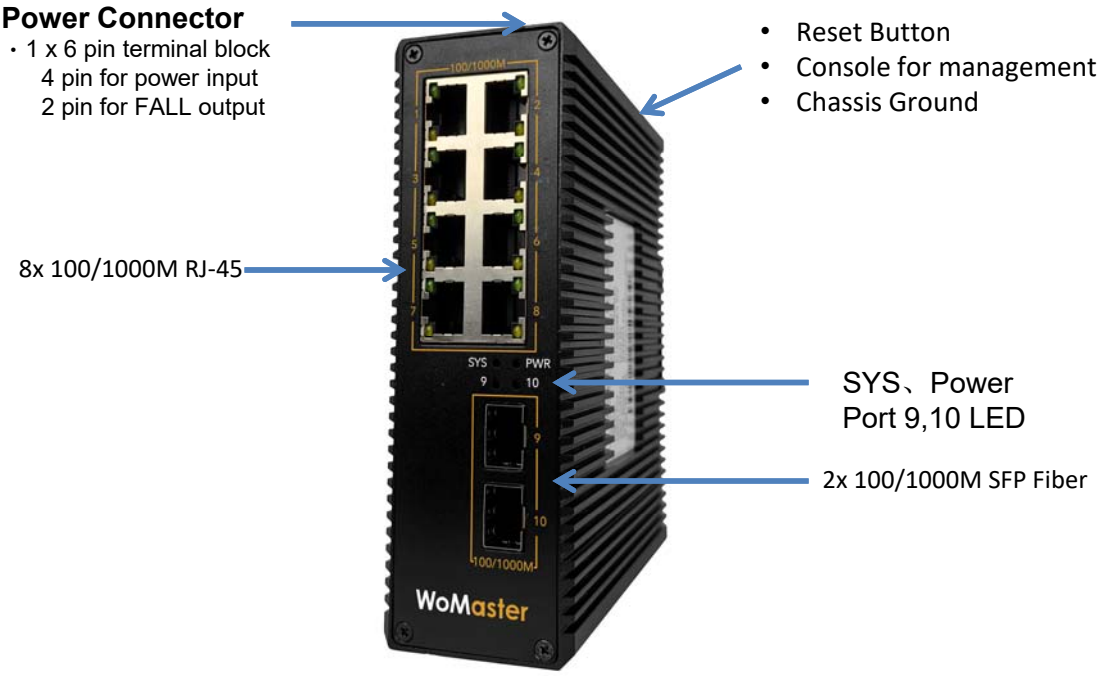
•**IPv4 Static Routes:** Supports up to 128 static routes and 1024 ARP entries for efficient routing and address resolution.
•**Advanced Port Management:** Offers flexible bandwidth and traffic configuration with optical port DDMI diagnostics for precise network management.
•**Comprehensive VLAN Support:** 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

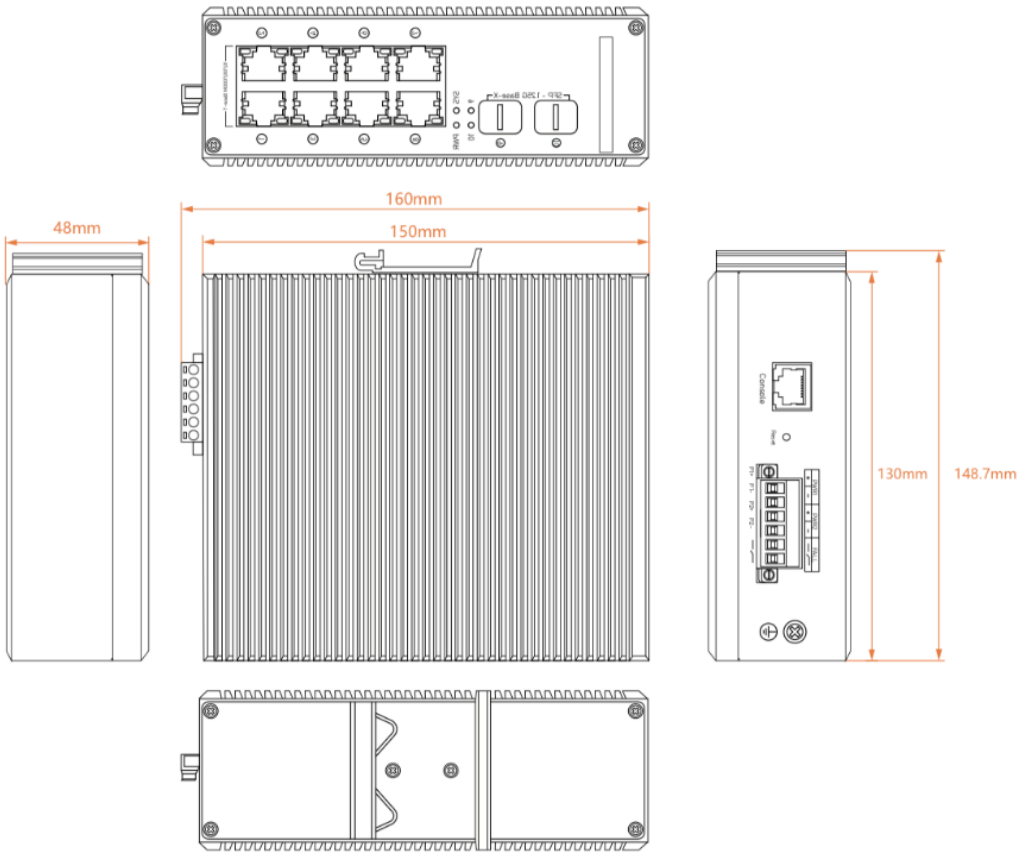
•**User Authentication:** Supports WEB interface authentication for secure access.
•**CPU Protection:** Prevents large data stream attacks on the switch for enhanced stability.
•**Advanced Authentication Protocols:** Supports 802.1x, remote RADIUS, and TACACS+ authentication for robust access control.
•**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.

Interfaces

IDS410G



Dimensions



(mm)

Specifications

Technology	
Standard	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	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 Technology	Store and Forward Technology with Non-Blocking Switch Fabric
Number of MAC Address	8K
Packet Forwarding Cache	4M bits
Transfer performance	Packet forwarding rate @ 64byte: 14.88 Mpps
Jumbo Packet	10KBytes
Interface	
Ethernet Port	8 x 10/100/1000Base-T RJ45 Auto-Negotiation, Auto MDI/MDIX 2 slots for 100/1000M SFP optical ports
System LED	1 x Power, 1 x SYS
Ethernet Port LED	Link (Green On, Amber On), Activity (Green Blinking,Ambei Blinking)
SFP Port	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 Input	6-Pin Removable Terminal Block Connector: 4 Pins for Redundant Power 2 Pins for FALL output
Power Requirement	
Input Voltage	24VDC (12~52VDC)
Power Consumption	<3W, suggest to reserve 15% tolerance

Software	
IP Routing	L2+ network management functions. Static Routes IPv4 supports 32 routes Static Routes IPv6 supports 32 routes
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
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	Steel Metal
Dimension	160 x 148.7 x 48mm (HxDxW)
Ingress Protection	IP40
Weight	~1.0Kg with no package
Environmental	
Operating Temperature & Humidity	-25 to +75°C; 5% to 95% RH non-condensing
Storage Temperature	-40 to +85°C; 5% to 95% RH non-condensing
MTBF	300,000 hours
Warranty	5 Years
Standard	
CE-EMC	EN 55032:2015/A11:2020/A1:2020, EN 55035:2017/A11:2020, EN IEC 61000-3-2:2019/A1:2021/A2:2024, EN 61000-3-3:2013/A1:2019/A2:2021, EN 61000-4-2:2009, EN IEC 61000-4-3:2020, EN 61000-4-4:2012, EN 61000-4-5:2014/A1:2017, EN IEC 61000-4-6:2023, EN 61000-4-8:2010, EN IEC 61000-4-11:2020
CE-LVD	EN IEC 62368-1:2024+A11:2024
RoHS	IEC 62321-5:2013& IEC 62321-4:2013+A1:2017& IEC 62321-7-2:2017& IEC 62321-6:2015& IEC 62321-8:2017 &IEC 62321-3-1:2013 & IEC 62321-7-1:2015

Ordering Information

Model Name	Description
IDS410G	Din-rail 10-port L2 Managed Switch with 8 x Giga and 2 x 100M/1000M SFP
	Package List
	1 x Product Unit (Without SFP Transceiver)
	1 x 6-pin Removable Terminal Block Connector
	1 x Attached Din Clip
	1 x Quick Installation Guide
	*Other type Connector by Request

Optional Accessory

SFPFEM2	100M	2KM	Multi	SFP, 100Mbps, LC, multi-mode, 2KM, 0~70°C
SFPFEM2T	100M	2KM	Multi	SFP, 100Mbps, LC, multi-mode, 2KM, -40~85°C
SFPFES30	100M	30KM	Single	SFP, 100Mbps, LC, single-mode, 30KM, 0~70°C
SFPFES30T	100M	30KM	Single	SFP, 100Mbps, LC, single-mode, 30KM, -40~85°C
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

MDR-40-24	Din-rail Power Supply, INPUT:85-264VAC, 120-370VDC, OUTPUT: 24VDC/1.7A, -20 ~ +70℃

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