12-Port 10/100/1000Mbps Industrial Managed Switch with 12 SFP Uplink



IES7610-12GE12GF-DC

RING | MSTP / RSTP | 802.1Q VLAN

Key Features:

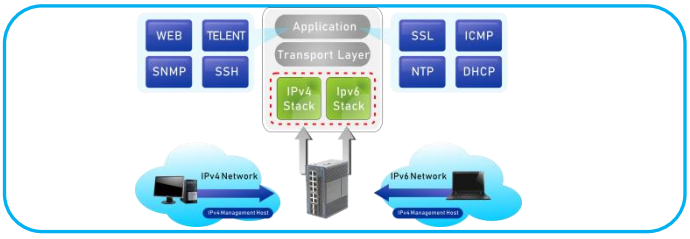
Ports: Provide 12*10/100/1000Mbps ports with 12* 1000Mbps SFP
Self-adaption: RJ45 port supports 10/100/1000Mbps Auto MDI/MDIX
Industrial Installation: Din Rail mounting installation
Wide Application: Designed for Railway, traffic etc some Industrial environment
Surge protection: Protect the device from lighting surges and others electrical hazards
Managed: Support remote web managed,VLAN and storm control and IPV6 management etc.
Working Temperature: -40 to 85 degrees operating temperature
Considerate Design: IP40 Industrial design with dual power input
Easy to use: Plug and play, No configuration required

Environmentally Hardened Design

With the **IP40** metal industrial case which provides a high level of immunity against electromagnetic interference and heavy electrical surges,Being able to operate under the temperature range from **-40 to 85 degrees C**, the IES7610-12GE12GF-DC can be placed in almost any difficult environment.







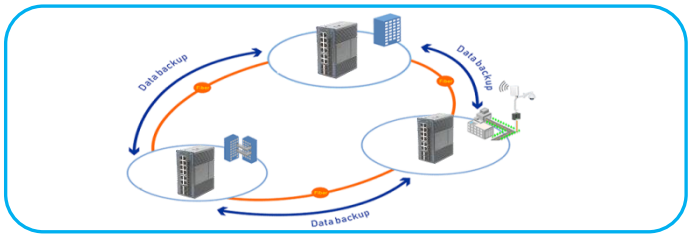
Cost-effective IPv6 Managed Gigabit Switch Solution

With layer 2+ managed Gigabit Switch, It provides IPv6/IPv4 management and built-in L2/L4 Gigabit Switching engine, and supports high-speed transmission of surveillance images and videos.

Surge Protection Design

provides contact discharge of ±8KV DC and air discharge of ±15KV DC for Ethernet ESD protection. It also supports ±6KV surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.





Comprehensive reliability mechanisms(ERPS)

Besides STP,RSTP, and MSTP, the IES7610 Series Managed Switch supports enhanced Ethernet reliability technologies such as Ethernet Ring Protection Switching (ERPS), also referred to as G.8032. ERPS supports various services and allows flexible networking, helping customers build a network with lower OPEX and CAPEX.

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12-Port 10/100/1000Mbps Industrial Managed Switch with 12 Gigabit SFP

Technical Datasheet

Model	IES7610-12GE12GF-DC	
Hardware Specifications		
Connector	12* 10/100/1000BASE-T RJ45 auto MDI/MDIX ports 12* 1000 Base-X SFP Slots	
Console	1 Console port	
LED Display	Power Indicator: PWR(green).Network Indicator: Link(yellow)	
Thermal Fan	Fanless Design	
Installation	Din Rail	
Switch Architecture	Store and Forward	
Transmission model	IEEE802.3X full-duplex and Backpressure half-duplex	
Switch Performance	Backplane bandwidth	56Gbps
	Packet forwarding rate	35.71Mpps
	MAC address	32k
Power requirement	DC 12V~54V	
ESD Protection	6KV ESD	
Dimension(W×D×H)	75mm x 110mm x 150mm(2.95in x 4.33in x 5.91in)	
Weight	< 1.55kg	
Standards Conformance		
Network standard	IEEE802.3i 10 BASE-T IEEE802.3u 100 BASE-TX IEEE802.3ab 1000BASE-T IEEE802.3x Flow Control IEEE802.3az EEE	
Stability Testing	FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) IEC 60068-2-32 (free fall) IEC 60068-2-27 (shock) IEC 60068-2-6 (vibration)	
Layer 2 Functions		
Port Mirroring	TX / RX / both Many-to-1 monitor	
Vlan	802.1Q tagged-based VLAN Up to 256 VLAN groups, out of 4094 VLAN IDs 802.1ad Q-in-Q tunneling Voice VLAN;Protocol VLAN;Private VLAN (Protected port),GVRP	
Link Aggregation	IEEE 802.3ad LACP and static trunk	

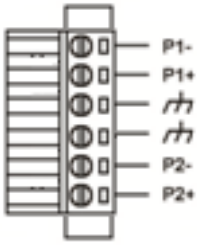
	Supports 8 groups of 8-port trunk
Spanning Tree Protocol	STP, IEEE 802.1D Spanning Tree Protocol RSTP, IEEE 802.1w Rapid Spanning Tree Protocol MSTP, IEEE 802.1s Multiple Spanning Tree Protocol
Industrial Ring	G.8032 (ERPS),Recovery time less than 20ms 250 Ring at most, Max 1024 devices per ring.
IGMP Snooping	IGMP (v2/v3) snooping IGMP querier Up to 256 multicast groups
MLD Snooping	MLD (v1/v2) snooping, up to 256 multicast groups
Access Control List	IPv4/IPv6 IP-based ACL / MAC-based ACL
QoS	8 mapping ID to 8 level priority queues --- Port number --- 802.1p priority --- 802.1Q VLAN tag --- DSCP field in IP packet Traffic classification based, strict priority and WRR
Security	IEEE 802.1X port-based authentication Built-in RADIUS client to co-operate with RADIUS server RADIUS / TACACS+ user access authentication IP-MAC port binding MAC filtering Static MAC address DHCP Snooping and DHCP Option82 STP BPDU guard, BPDU filtering and BPDU forwarding DoS attack prevention ARP inspection IP source guard
Management Function	
Basic Management Interfaces	Web browser / Telnet / SNMP v1, v2c, V3 Firmware upgrade by HTTP / TFTP protocol through Ethernet network Remote / Local Syslog,System log,LLDP protocol ,SNTP
Secure Management Interfaces	SSH, SSL, SNMP
SNMP MIBs	RFC 1213 MIB-II RFC 1215 Generic Traps RFC 1493 Bridge MIB RFC 2674 Bridge MIB Extensions RFC 2737 Entity MIB (Version 2) RFC 2819 RMON (1, 2, 3, 9) RFC 2863 Interface Group MIB RFC 3635 Ethernet-like MIB
Environment	
Safety	FCC Part15 Class A,CE.RoHs
Environment specification	Operating temperature: -40℃~85℃，operating humidity: 5%~95% Storage temperature: -40℃~85℃，storage humidity: 5%~95%

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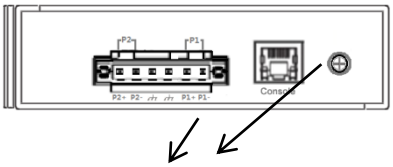
Installation Models

Power Terminal

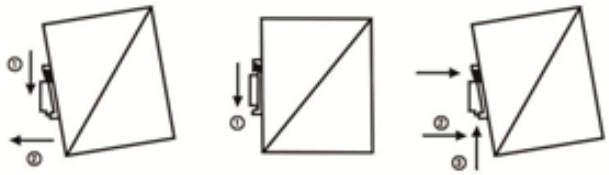


- 6-pin 3.81mm-spacing plug-in terminal
- 12V-54VDC wide voltage input
- P1&P2 dual power input
- Reverse protection

Earth Protection

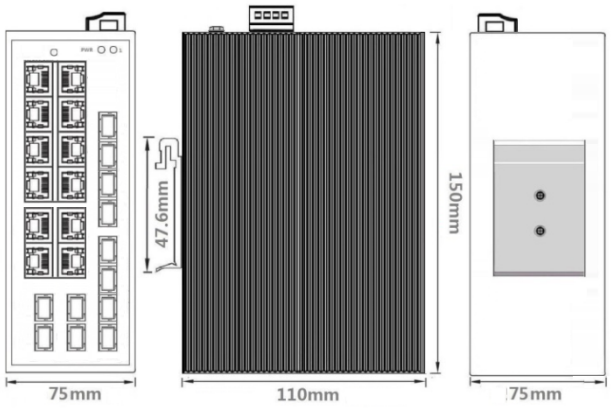


Ground terminal or screw

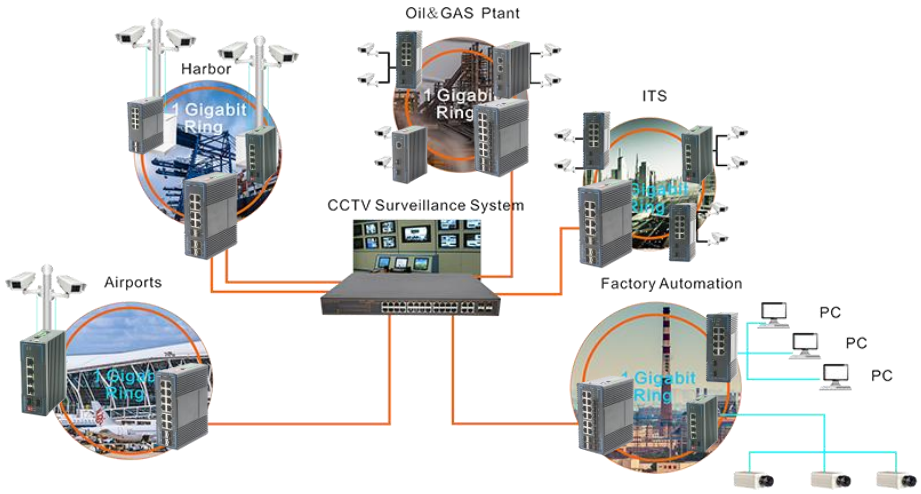


Din-Rail

Mechanical Drawing



Applications



Ordering Information	
IES7610-12GE12GF-DC	12 Ports 10/100/1000Mbps Industrial Managed switch With 12 gigabit SFP

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