



# 16-Port 10/100/1000Mbps Industrial Managed Switch with 4 SFP Uplink



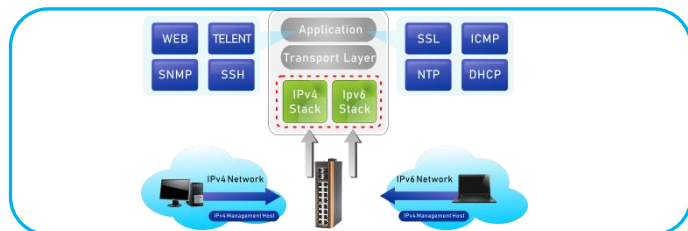
IES7510-16GE4GF-DC

## Key Features:

- Ports:** Provide 16\*10/100/1000Mbps ports with 4 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 lightning 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 IES7510-8GE4GF-DC can be placed in almost any difficult environment.

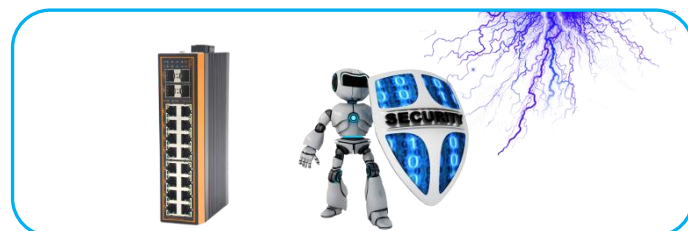


## Cost-effective IPv6 Managed Gigabit Switch Solution

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  $\pm 8KV$  DC and air discharge of  $\pm 16KV$  DC for Ethernet ESD protection. It also supports  $\pm 6KV$  surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.



## Gigabit SFP Uplink Port

With two SFP module slot available, the SFP uplink port is ideal for connecting the switch to the network's backbone, providing more than enough bandwidth and stability for ultra high speed data transferring, Beside the SFP can transmitte the date with Max 100Km distance with more economic solution

# IES7510-16GE4GF-DC

## 16-Port 10/100/1000Mbps Industrial Managed Switch with 4 SFP

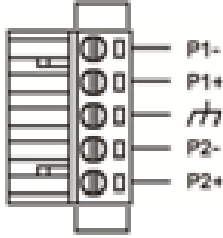
### Technical Datasheet

<b>Model</b>	<b>IES7510-16GE4GF-DC</b>	
<b>Hardware Specifications</b>		
Connector	16 10/100/1000BASE-T RJ45 auto MDI/MDIX ports 4 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	48Gbps
	Packet forwarding rate	29.76Mpps
	MAC address	16k
Power requirement	DC 12V~36V	
ESD Protection	6KV ESD	
Dimension(WxDxH)	44.5mm x 120mm x 199mm(1.75in x 4.72in x7.83in)	
Weight	1.25kg	
<b>Standards Conformance</b>		
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)		
<b>Layer 2 Functions</b>		
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	

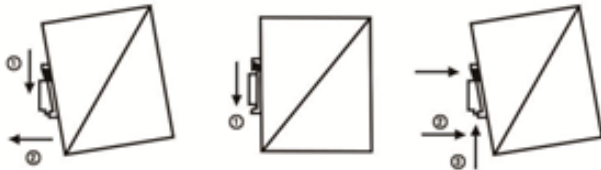
	Supports 8 groups of 8-port trunk
Spanning Tree Protocol	STP, IEEE 802.1D Spanning Tree Protocol RSTP, IEEE 802.1w Rapid Spanning Tree Protocol MSTP, IEEE 802.1s Multiple Spanning Tree Protocol
IGMP Snooping	IGMP (v2/v3) snooping IGMP querier Up to 256 multicast groups
MLD Snooping	MLD (v1/v2) snooping, up to 256 multicast groups
Access Control List	IPv4/IPv6 IP-based ACL / MAC-based ACL 8 mapping ID to 8 level priority queues
QoS	--- 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
<b>Management Function</b>	
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, SNMP
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
<b>Environment</b>	
Safety	FCC Part15 Class A, CE, RoHS
Environment specification	Operating temperature: -40°C~85°C, operating humidity: 5%~95% Storage temperature: -40°C~85°C, storage humidity: 5%~95%

### Installation Models

#### Power Terminal

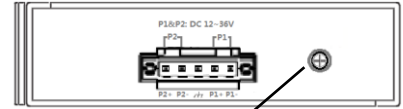


- ◆ 5-pin 3.81mm-spacing plug-in terminal
- ◆ 12V-36VDC wide voltage input
- ◆ P1&P2 dual power input
- ◆ Reverse protection



Din-Rail

#### Earth Protection

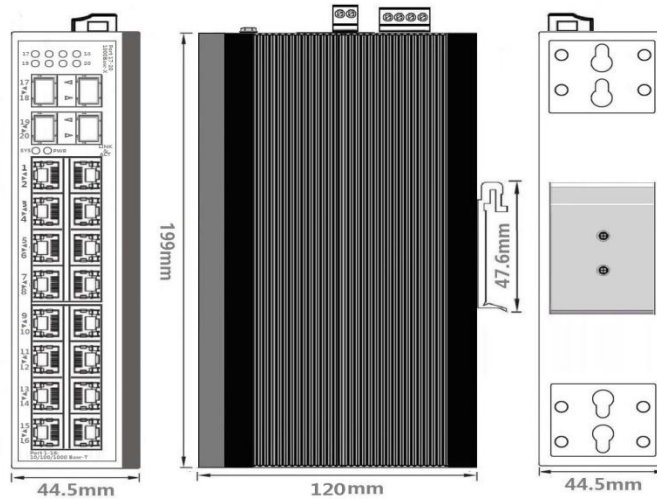


Ground terminal or screw

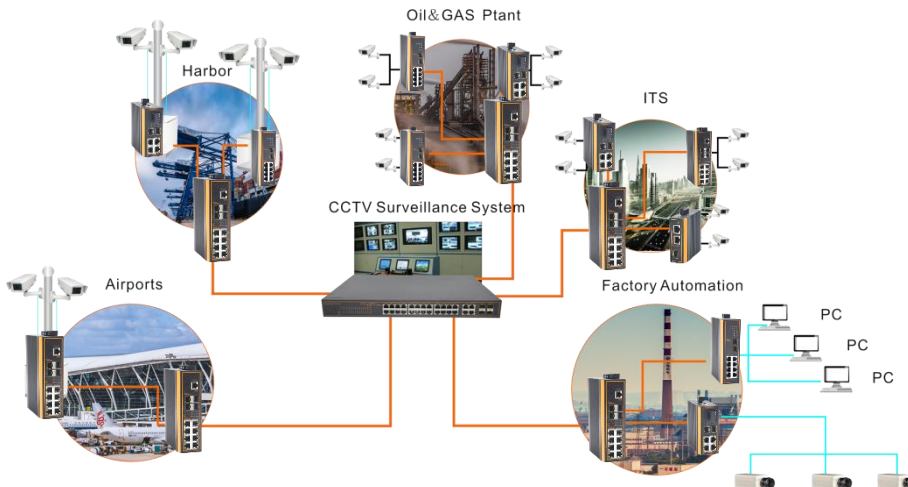


Wall mounting

### Mechanical Drawing



### Applications



#### Ordering Information

IES7510-16GE4GF-DC 16 Ports 10/100/1000Mbps Industrial Managed switch With 4 SFP