

## 4-Port 10/100/1000Mbps Industrial Managed Switch with 2 SFP Uplink



MSTP  
RSTP

802.1Q  
VLAN



IES7511-4GE2GF-CA

### Key Features:

**Ports:** Provide 4\*10/100/1000Mbps ports with 2 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.

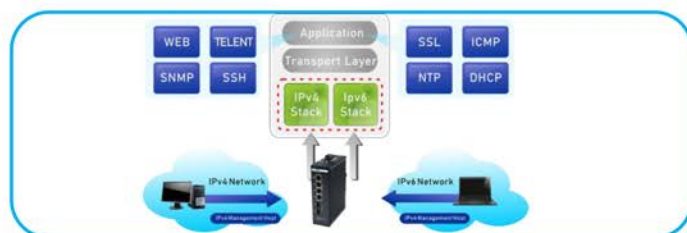
**Working Temperature:** -40 to 85 degrees operating temperature

**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 **IES7511-4GE2GF-CA** 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  $\pm 8\text{KV}$  DC and air discharge of  $\pm 15\text{KV}$  DC for Ethernet ESD protection. It also supports  $\pm 6\text{KV}$  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 transmit the data with Max 100Km distance with more economic solution



# IES7511-4GE2GF-CA

4-Port gigabit 10/100/1000Mbps Industrial Managed PoE Switch with 2 SFP

## Technical Datasheet

| Model                   | IES7511-4GE2GF-CA                                           |           |
|-------------------------|-------------------------------------------------------------|-----------|
| Hardware Specifications |                                                             |           |
| Connector               | 4 10/100/1000BASE-T RJ45 auto MDI/MDIX ports                |           |
|                         | 2 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                                         | 32Gbps    |
|                         | Packet forwarding rate                                      | 12.93Mpps |
|                         | MAC address                                                 | 8k        |
| Power requirement       | DC 12V~56V                                                  |           |
| ESD Protection          | 6KV ESD                                                     |           |
| Dimension(W×D×H)        | 48mm x 110mm x 150mm(1.89in x 4.33in x 5.91in)              |           |
| Weight                  | 1.2kg                                                       |           |
| 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                          |



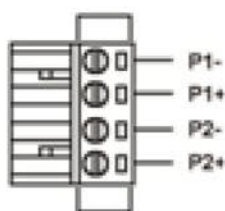
|                              |                                                                                                                                                                                                                                                                            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

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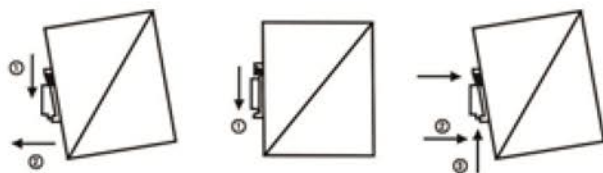
4-Port gigabit 10/100/1000Mbps Industrial Managed PoE Switch with 2 SFP

## Installation Models

### Power Terminal

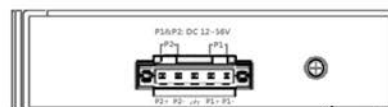


- ◆ 4-pin 3.81mm-spacing plug-in terminal
- ◆ 12V-56VDC wide voltage input
- ◆ P1&P2 dual power input
- ◆ Reverse protection



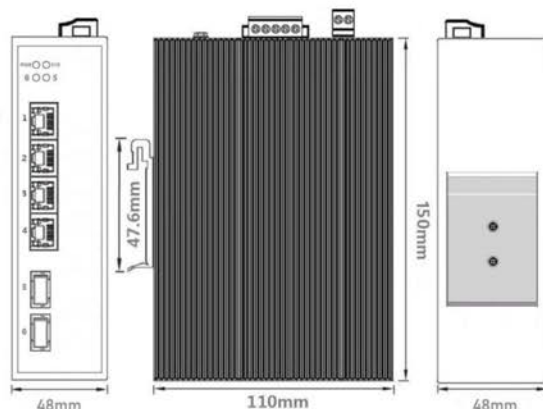
### Din-Rail

### Earth Protection

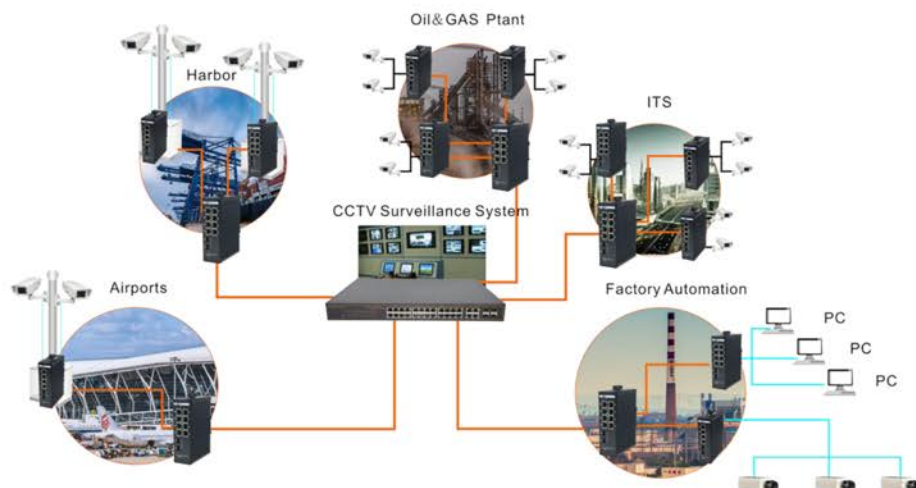


Ground screw

## Mechanical Drawing



## Applications



### Ordering Information

**IES7511-4GE2GF-CA**

4 Ports 10/100/1000Mbps Industrial Managed switch With 2 SFP